


```

*****                               26 Apr 2012    12:42:59    ****
> *
*****
> *
*****
> *

```

```

9 . subtitle "for variable related to radfmw1 radfmw2 and radfmw3 for males and
> females"

```

```

                                Date and time: 26 Apr 2012    12:42:59
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations

```

```

for variable related to radfmw1 radfmw2 and radfmw3 for males and females

```

```

10 .
11 . di c(current_date)
    26 Apr 2012

12 . di c(current_time)
    12:42:59

13 . di c(filename)
    chwide22apr2012females.dta

```

[illegible]

```

> *
*****                               Radfmw)                               *****
> *
*****                               *****
> *
*****                               *****
> *
*****                               26 Apr 2012    12:42:59    *****
> *
*****
> *
*****
> *

```

21 . subtitle "Variable index for females"

```

Date and time: 26 Apr 2012    12:42:59
Stata version: 12.1
Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
    using 33554432 bytes of memory
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    Stata data file: chwide22apr2012female
> s.dta
    data file has 2195 variables
    and 363 observations

```

Variable index for females

```

22 . des trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 em
> plw23 ///
> emplw24 inc4w1 deaw1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2

```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
healthef	byte	%8.0g		* a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
illw2	byte	%8.0g		Total number of illnesses experienced in time period 1987-1996
emplw23	byte	%8.0g		emplw2==2. part time
emplw12	byte	%8.0g		emplw1==1. full time
emplw13	byte	%8.0g		emplw1==2. part time
emplw16	byte	%8.0g		emplw1==5. unemployed
emplw23	byte	%8.0g		emplw2==2. part time
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
cataw3	byte	%8.0g		Total number of disasters experienced in time period

				1996-NOW
occ3w1	byte	%15.0g	LABJ	service occup protective services in 1986
occ4w1	byte	%15.0g	LABJ	precision prod mechan craft construction in 1986
occ2w1	byte	%15.0g	LABJ	technical sales admin support in 1986
occ7w1	byte	%15.0g	LABJ	homemaking or caregiving in 1986
movew2	byte	%8.0g		Total number of moves experienced in time period 1987-1996
mhlthw2	byte	%8.0g		level of general psychological/mental health in 1996

```

23 . // polychoric corr matrices are input owing to dichotomous variables inclu
    > ded
24 .
25 . subtitle "Summary statistics of items used in female analysis"

```

```

                                Date and time: 26 Apr 2012    12:42:59
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations

```

Summary statistics of items used in female analysis

```

26 . summ trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
    > shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 em
    > plw23 ///
    > emplw24 inc4w1 deaw1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 //
    > /
    > dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPel WHPpa ///
    > HP2probsoc radchw3 Havmil carcin

```

Variable	Obs	Mean	Std. Dev.	Min	Max
trgovw1	272	40.73529	37.20517	0	100
ecprw1	362	32.0884	34.04784	0	100
polprw1	363	56.20937	40.37949	0	100
airw1	362	66.03867	34.20411	0	100
radchw1	363	61.39669	37.24033	0	100
dauthw3	363	58.41047	33.61062	0	100
healthef	363	69.94215	30.41071	0	100
HP2vacatn	363	.1735537	.379248	0	1
shhousw1	362	30.11602	35.76745	0	100
trrepw1	272	46.27574	37.08245	0	100
childw1	361	.9252078	.9471897	0	5
radtlw1	363	62.01928	38.34342	0	100
illw2	363	.4132231	.885763	0	9
emplw23	363	.0853994	.2798609	0	1
emplw12	363	.7024793	.4577985	0	1
emplw13	363	.046832	.2115704	0	1
emplw16	363	.2038567	.4034198	0	1
emplw23	363	.0853994	.2798609	0	1
emplw24	363	.0027548	.0524864	0	1
inc4w1	363	.0495868	.2173893	0	1
deaw1	363	.2975207	.8140136	0	10
cataw3	363	.0055096	.0741244	0	1
occ3w1	363	.0853994	.2798609	0	1
occ4w1	363	.0440771	.2055498	0	1
occ2w1	363	.0909091	.2878766	0	1
occ7w1	363	.0413223	.1993093	0	1
movew2	363	.1212121	.3512671	0	3
mhlthw2	363	85.9449	18.13599	5	100
dauthw3	363	58.41047	33.61062	0	100
healthef	363	69.94215	30.41071	0	100
HP2vacatn	363	.1735537	.379248	0	1
cataw3	363	.0055096	.0741244	0	1
ncontw3	363	1.655647	.4872856	0	2
pillw3	363	3.162534	6.288947	0	63
WHPel	363	31.83691	34.44306	0	100
WHPpa	363	18.46551	21.43057	0	99.96999
HP2probsoc	363	.2038567	.4034198	0	1
radchw3	363	61.47934	34.6777	0	100
Havmil	363	100.1797	225.6686	2.339284	3026.225
carcin	363	68.7135	31.51647	0	100

```

27 .
28 . vselect radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 em
> plw23 ///
> emplw24 inc4w1 deaw1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 //
> /
> dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPel WHPpa ///
> HP2probsoc radchw3 Havmil carcin, backward r2adj
95 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16
> emplw23 emplw24 inc4w1 deaw1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlth
> w2 dauthw3 healthef HP2v : R2ADJ -.4984361

```

R2ADJ -.4995503 :	remove	trgovw1
R2ADJ -.4962515 :	remove	ecprw1
R2ADJ -.4954677 :	remove	polprw1
R2ADJ -.4970941 :	remove	airw1
R2ADJ -.4803541 :	remove	radchw1
R2ADJ -.486989 :	remove	dauthw3
R2ADJ -.5002016 :	remove	healthef
R2ADJ -.4967046 :	remove	HP2vacatn
R2ADJ -.4980816 :	remove	shhousw1
R2ADJ -.4984007 :	remove	trrepw1
R2ADJ -.4995953 :	remove	childw1
R2ADJ -.4989558 :	remove	radtlw1
R2ADJ -.4672399 :	remove	illw2
R2ADJ -.5003127 :	remove	emplw23
R2ADJ -.500495 :	remove	emplw12
R2ADJ -.5001047 :	remove	emplw13
R2ADJ -.4999039 :	remove	emplw16
R2ADJ -.5003127 :	remove	emplw23
R2ADJ -.4893692 :	remove	emplw24
R2ADJ -.4936498 :	remove	inc4w1
R2ADJ -.5004685 :	remove	deaw1
R2ADJ -.4898624 :	remove	cataw3
R2ADJ -.4879388 :	remove	occ3w1
R2ADJ -.4950961 :	remove	occ4w1
R2ADJ -.5002116 :	remove	occ2w1
R2ADJ -.5002474 :	remove	occ7w1
R2ADJ -.4958281 :	remove	movew2
R2ADJ -.4926836 :	remove	mhlthw2

R2ADJ	-.486989	:	remove	dauthw3
R2ADJ	-.5002016	:	remove	healthef
R2ADJ	-.4967046	:	remove	HP2vacatn
R2ADJ	-.4898624	:	remove	cataw3
R2ADJ	-.4977987	:	remove	ncontw3
R2ADJ	-.4981147	:	remove	pillw3
R2ADJ	-.4921994	:	remove	WHPel
R2ADJ	-.4996765	:	remove	WHPpa
R2ADJ	-.5003948	:	remove	HP2probsoc
R2ADJ	-.3690328	:	remove	radchw3
R2ADJ	-.5004251	:	remove	Havmil
R2ADJ	-.5004993	:	remove	carcin

```

Stage 1 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16
> emplw23 emplw24 inc4w1 deaw1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2
> hw2 dauthw3 healthef HP2v : R2ADJ -.5004993

```

R2ADJ	-.5015816	:	remove	trgovw1
R2ADJ	-.4982806	:	remove	ecprw1
R2ADJ	-.4973926	:	remove	polprw1
R2ADJ	-.4992084	:	remove	airw1
R2ADJ	-.4825582	:	remove	radchw1
R2ADJ	-.4890997	:	remove	dauthw3
R2ADJ	-.4569343	:	remove	healthef
R2ADJ	-.4987975	:	remove	HP2vacatn
R2ADJ	-.5001771	:	remove	shhousw1
R2ADJ	-.5004544	:	remove	trrepw1
R2ADJ	-.5016163	:	remove	childw1
R2ADJ	-.5010089	:	remove	radtlw1
R2ADJ	-.4695125	:	remove	illw2
R2ADJ	-.502348	:	remove	emplw23
R2ADJ	-.5025367	:	remove	emplw12
R2ADJ	-.5021541	:	remove	emplw13
R2ADJ	-.501943	:	remove	emplw16
R2ADJ	-.502348	:	remove	emplw23
R2ADJ	-.4914507	:	remove	emplw24
R2ADJ	-.495773	:	remove	inc4w1
R2ADJ	-.5025158	:	remove	deaw1
R2ADJ	-.4919469	:	remove	cataw3
R2ADJ	-.4900707	:	remove	occ3w1
R2ADJ	-.4964922	:	remove	occ4w1
R2ADJ	-.5022563	:	remove	occ2w1
R2ADJ	-.5022921	:	remove	occ7w1
R2ADJ	-.4978259	:	remove	movew2
R2ADJ	-.4948032	:	remove	mhlthw2
R2ADJ	-.4890997	:	remove	dauthw3
R2ADJ	-.4569343	:	remove	healthef
R2ADJ	-.4987975	:	remove	HP2vacatn

R2ADJ	-.4919469	:	remove	cataw3
R2ADJ	-.4996659	:	remove	ncontw3
R2ADJ	-.5000971	:	remove	pillw3
R2ADJ	-.4940148	:	remove	WHPel
R2ADJ	-.5016993	:	remove	WHPpa
R2ADJ	-.5024456	:	remove	HP2probsoc
R2ADJ	-.3711186	:	remove	radchw3
R2ADJ	-.502467	:	remove	Havmil

```

Stage 2 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw13 emplw16 emplw23
> emplw24 inc4w1 deaw1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 daut
> hw3 healthef HP2vacatn c : R2ADJ -.5025367

```

R2ADJ	-.5036598	:	remove	trgovw1
R2ADJ	-.5002571	:	remove	ecprw1
R2ADJ	-.4994506	:	remove	polprw1
R2ADJ	-.5011804	:	remove	airw1
R2ADJ	-.4845106	:	remove	radchw1
R2ADJ	-.4912649	:	remove	dauthw3
R2ADJ	-.4592358	:	remove	healthef
R2ADJ	-.5008198	:	remove	HP2vacatn
R2ADJ	-.5021436	:	remove	shhousw1
R2ADJ	-.5025454	:	remove	trrepw1
R2ADJ	-.5036963	:	remove	childw1
R2ADJ	-.5030959	:	remove	radtlw1
R2ADJ	-.4715451	:	remove	illw2
R2ADJ	-.5043716	:	remove	emplw23
R2ADJ	-.5034991	:	remove	emplw13
R2ADJ	-.5003708	:	remove	emplw16
R2ADJ	-.5043716	:	remove	emplw23
R2ADJ	-.4891442	:	remove	emplw24
R2ADJ	-.4977696	:	remove	inc4w1
R2ADJ	-.5045188	:	remove	deaw1
R2ADJ	-.4939751	:	remove	cataw3
R2ADJ	-.4922126	:	remove	occ3w1
R2ADJ	-.4985746	:	remove	occ4w1
R2ADJ	-.5042908	:	remove	occ2w1
R2ADJ	-.5042399	:	remove	occ7w1
R2ADJ	-.4998911	:	remove	movew2
R2ADJ	-.4969322	:	remove	mhlthw2
R2ADJ	-.4912649	:	remove	dauthw3
R2ADJ	-.4592358	:	remove	healthef
R2ADJ	-.5008198	:	remove	HP2vacatn
R2ADJ	-.4939751	:	remove	cataw3
R2ADJ	-.5017409	:	remove	ncontw3
R2ADJ	-.5021994	:	remove	pillw3
R2ADJ	-.4958974	:	remove	WHPel
R2ADJ	-.5037412	:	remove	WHPpa

```
R2ADJ -.5044756 :      remove HP2probsoc
R2ADJ -.3737755 :      remove   radchw3
R2ADJ -.5044817 :      remove    Havmil
```

```
Stage 3 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 dauthw3 he
> althef HP2vacatn cataw3 : R2ADJ -.5045188
```

```
R2ADJ -.5056938 :      remove   trgovw1
R2ADJ -.5019454 :      remove   ecprw1
R2ADJ -.5014941 :      remove   polprw1
R2ADJ -.5030639 :      remove   airw1
R2ADJ -.486623  :      remove   radchw1
R2ADJ -.4931667 :      remove   dauthw3
R2ADJ -.4607327 :      remove   healthef
R2ADJ -.502764  :      remove   HP2vacatn
R2ADJ -.5038544 :      remove   shhousw1
R2ADJ -.504619  :      remove   trrepw1
R2ADJ -.5056715 :      remove   childw1
R2ADJ -.5050774 :      remove   radtlw1
R2ADJ -.4736458 :      remove   illw2
R2ADJ -.5063441 :      remove   emplw23
R2ADJ -.5054489 :      remove   emplw13
R2ADJ -.5021692 :      remove   emplw16
R2ADJ -.5063441 :      remove   emplw23
R2ADJ -.4910562 :      remove   emplw24
R2ADJ -.4997686 :      remove   inc4w1
R2ADJ -.4960573 :      remove   cataw3
R2ADJ -.4942415 :      remove   occ3w1
R2ADJ -.5006624 :      remove   occ4w1
R2ADJ -.5062885 :      remove   occ2w1
R2ADJ -.5062092 :      remove   occ7w1
R2ADJ -.5018543 :      remove   movew2
R2ADJ -.4990574 :      remove   mhlthw2
R2ADJ -.4931667 :      remove   dauthw3
R2ADJ -.4607327 :      remove   healthef
R2ADJ -.502764  :      remove   HP2vacatn
R2ADJ -.4960573 :      remove   cataw3
R2ADJ -.5037688 :      remove   ncontw3
R2ADJ -.5041931 :      remove   pillw3
R2ADJ -.4978024 :      remove   WHPel
R2ADJ -.5057041 :      remove   WHPpa
R2ADJ -.5064338 :      remove   HP2probsoc
R2ADJ -.3745215 :      remove   radchw3
R2ADJ -.506439  :      remove    Havmil
```

```
Stage 4 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw13 emplw16 emplw23
```

```
> emplw24 inc4w1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 dauthw3 he
> althef HP2vacatn cataw3 : R2ADJ -.506439
```

```
R2ADJ -.5076425 :      remove      trgovw1
R2ADJ -.5038707 :      remove      ecprw1
R2ADJ -.5034599 :      remove      polprw1
R2ADJ -.5050915 :      remove      airw1
R2ADJ -.4882218 :      remove      radchw1
R2ADJ -.4952683 :      remove      dauthw3
R2ADJ -.4619048 :      remove      healthef
R2ADJ -.5045684 :      remove      HP2vacatn
R2ADJ -.505837 :       remove      shhousw1
R2ADJ -.5066478 :      remove      trrepw1
R2ADJ -.5075393 :      remove      childw1
R2ADJ -.5068378 :      remove      radtlw1
R2ADJ -.4758215 :      remove      illw2
R2ADJ -.508209 :       remove      emplw23
R2ADJ -.507338 :       remove      emplw13
R2ADJ -.5040821 :      remove      emplw16
R2ADJ -.508209 :       remove      emplw23
R2ADJ -.4929753 :      remove      emplw24
R2ADJ -.5014921 :      remove      inc4w1
R2ADJ -.4980609 :      remove      cataw3
R2ADJ -.4960199 :      remove      occ3w1
R2ADJ -.5026307 :      remove      occ4w1
R2ADJ -.5081837 :      remove      occ2w1
R2ADJ -.5081131 :      remove      occ7w1
R2ADJ -.5039376 :      remove      movew2
R2ADJ -.5008871 :      remove      mhlthw2
R2ADJ -.4952683 :      remove      dauthw3
R2ADJ -.4619048 :      remove      healthef
R2ADJ -.5045684 :      remove      HP2vacatn
R2ADJ -.4980609 :      remove      cataw3
R2ADJ -.5055585 :      remove      ncontw3
R2ADJ -.5060522 :      remove      pillw3
R2ADJ -.4999202 :      remove      WHPel
R2ADJ -.507629 :       remove      WHPpa
R2ADJ -.5083529 :      remove      HP2probsoc
R2ADJ -.3741558 :      remove      radchw3
```

```
Stage 5 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 dauthw3 he
> althef HP2vacatn cataw3 : R2ADJ -.5083529
```

```
R2ADJ -.5095376 :      remove      trgovw1
R2ADJ -.5057084 :      remove      ecprw1
R2ADJ -.5055018 :      remove      polprw1
R2ADJ -.5069294 :      remove      airw1
```

R2ADJ	-.4901327	:	remove	radchw1
R2ADJ	-.4973699	:	remove	dauthw3
R2ADJ	-.463237	:	remove	healthef
R2ADJ	-.5046139	:	remove	HP2vacatn
R2ADJ	-.5078438	:	remove	shhousw1
R2ADJ	-.5086117	:	remove	trrepw1
R2ADJ	-.5094107	:	remove	childw1
R2ADJ	-.5087019	:	remove	radtlw1
R2ADJ	-.4770405	:	remove	illw2
R2ADJ	-.5101205	:	remove	emplw23
R2ADJ	-.5093157	:	remove	emplw13
R2ADJ	-.5058634	:	remove	emplw16
R2ADJ	-.5101205	:	remove	emplw23
R2ADJ	-.4948654	:	remove	emplw24
R2ADJ	-.5032869	:	remove	inc4w1
R2ADJ	-.4996379	:	remove	cataw3
R2ADJ	-.4978812	:	remove	occ3w1
R2ADJ	-.5045887	:	remove	occ4w1
R2ADJ	-.5100861	:	remove	occ2w1
R2ADJ	-.510003	:	remove	occ7w1
R2ADJ	-.5057689	:	remove	movew2
R2ADJ	-.502907	:	remove	mhlthw2
R2ADJ	-.4973699	:	remove	dauthw3
R2ADJ	-.463237	:	remove	healthef
R2ADJ	-.5046139	:	remove	HP2vacatn
R2ADJ	-.4996379	:	remove	cataw3
R2ADJ	-.5075986	:	remove	ncontw3
R2ADJ	-.5080258	:	remove	pillw3
R2ADJ	-.5011844	:	remove	WHPel
R2ADJ	-.5096549	:	remove	WHPpa
R2ADJ	-.3742359	:	remove	radchw3

```

Stage 6 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2  emplw13 emplw16 emplw24 inc4w1
> cataw3 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 dauthw3 healthef HP2vacat
> n cataw3 ncontw3 pillw : R2ADJ -.5101205

```

R2ADJ	-.5112434	:	remove	trgovw1
R2ADJ	-.5072705	:	remove	ecprw1
R2ADJ	-.5069697	:	remove	polprw1
R2ADJ	-.5086312	:	remove	airw1
R2ADJ	-.4913708	:	remove	radchw1
R2ADJ	-.4990088	:	remove	dauthw3
R2ADJ	-.4649011	:	remove	healthef
R2ADJ	-.5059405	:	remove	HP2vacatn
R2ADJ	-.5096405	:	remove	shhousw1
R2ADJ	-.5102708	:	remove	trrepw1
R2ADJ	-.5111956	:	remove	childw1
R2ADJ	-.5105619	:	remove	radtlw1

R2ADJ	-.4783448	:	remove	illw2
R2ADJ	-.5112759	:	remove	emplw13
R2ADJ	-.5079219	:	remove	emplw16
R2ADJ	-.4967411	:	remove	emplw24
R2ADJ	-.5053426	:	remove	inc4w1
R2ADJ	-.5014547	:	remove	cataw3
R2ADJ	-.4998175	:	remove	occ3w1
R2ADJ	-.5063084	:	remove	occ4w1
R2ADJ	-.5118182	:	remove	occ2w1
R2ADJ	-.5118554	:	remove	occ7w1
R2ADJ	-.5073813	:	remove	movew2
R2ADJ	-.504925	:	remove	mhlthw2
R2ADJ	-.4990088	:	remove	dauthw3
R2ADJ	-.4649011	:	remove	healthef
R2ADJ	-.5059405	:	remove	HP2vacatn
R2ADJ	-.5014547	:	remove	cataw3
R2ADJ	-.5092272	:	remove	ncontw3
R2ADJ	-.5098821	:	remove	pillw3
R2ADJ	-.5025904	:	remove	WHPel
R2ADJ	-.5114015	:	remove	WHPpa
R2ADJ	-.3767708	:	remove	radchw3

```

Stage 7 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2  emplw13 emplw16 emplw24 inc4w1
> cataw3 occ3w1 occ4w1 occ2w1 movew2 mhlthw2 dauthw3 healthef HP2vacatn cataw
> 3 ncontw3 pillw3 WHPe : R2ADJ -.5118554

```

R2ADJ	-.5130033	:	remove	trgovw1
R2ADJ	-.5090458	:	remove	ecprw1
R2ADJ	-.508452	:	remove	polprw1
R2ADJ	-.5103629	:	remove	airw1
R2ADJ	-.4929969	:	remove	radchw1
R2ADJ	-.5010083	:	remove	dauthw3
R2ADJ	-.467129	:	remove	healthef
R2ADJ	-.5073037	:	remove	HP2vacatn
R2ADJ	-.5112116	:	remove	shhousw1
R2ADJ	-.512051	:	remove	trrepw1
R2ADJ	-.5125552	:	remove	childw1
R2ADJ	-.5123051	:	remove	radtlw1
R2ADJ	-.480516	:	remove	illw2
R2ADJ	-.5130962	:	remove	emplw13
R2ADJ	-.5099722	:	remove	emplw16
R2ADJ	-.4986671	:	remove	emplw24
R2ADJ	-.5071643	:	remove	inc4w1
R2ADJ	-.503344	:	remove	cataw3
R2ADJ	-.50115	:	remove	occ3w1
R2ADJ	-.5082987	:	remove	occ4w1
R2ADJ	-.5136198	:	remove	occ2w1
R2ADJ	-.5090096	:	remove	movew2

R2ADJ	-.5066701	:	remove	mhlthw2
R2ADJ	-.5010083	:	remove	dauthw3
R2ADJ	-.467129	:	remove	healthef
R2ADJ	-.5073037	:	remove	HP2vacatn
R2ADJ	-.503344	:	remove	cataw3
R2ADJ	-.5110046	:	remove	ncontw3
R2ADJ	-.51167	:	remove	pillw3
R2ADJ	-.5045645	:	remove	WHPel
R2ADJ	-.5132897	:	remove	WHPpa
R2ADJ	-.3790547	:	remove	radchw3

```

Stage 8 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2  emplw13 emplw16 emplw24 inc4w1
> cataw3 occ3w1 occ4w1 movew2 mhlthw2 dauthw3 healthef HP2vacatn cataw3 ncon
> tw3 pillw3 WHPel WHPp : R2ADJ -.5136198

```

R2ADJ	-.5148451	:	remove	trgovw1
R2ADJ	-.5104857	:	remove	ecprw1
R2ADJ	-.5101116	:	remove	polprw1
R2ADJ	-.512208	:	remove	airw1
R2ADJ	-.4949934	:	remove	radchw1
R2ADJ	-.5023887	:	remove	dauthw3
R2ADJ	-.4692365	:	remove	healthef
R2ADJ	-.5089168	:	remove	HP2vacatn
R2ADJ	-.5129797	:	remove	shhousw1
R2ADJ	-.5138637	:	remove	trrepw1
R2ADJ	-.514336	:	remove	childw1
R2ADJ	-.5139726	:	remove	radtlw1
R2ADJ	-.4825031	:	remove	illw2
R2ADJ	-.5148342	:	remove	emplw13
R2ADJ	-.5112976	:	remove	emplw16
R2ADJ	-.5003948	:	remove	emplw24
R2ADJ	-.5089971	:	remove	inc4w1
R2ADJ	-.5052605	:	remove	cataw3
R2ADJ	-.5021406	:	remove	occ3w1
R2ADJ	-.5102947	:	remove	occ4w1
R2ADJ	-.5107772	:	remove	movew2
R2ADJ	-.5084398	:	remove	mhlthw2
R2ADJ	-.5023887	:	remove	dauthw3
R2ADJ	-.4692365	:	remove	healthef
R2ADJ	-.5089168	:	remove	HP2vacatn
R2ADJ	-.5052605	:	remove	cataw3
R2ADJ	-.5128652	:	remove	ncontw3
R2ADJ	-.5135715	:	remove	pillw3
R2ADJ	-.5063762	:	remove	WHPel
R2ADJ	-.5150976	:	remove	WHPpa
R2ADJ	-.3809423	:	remove	radchw3

```

Stage 9 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v

```

```
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2  emplw13 emplw16 emplw24 inc4w1
> cataw3 occ3w1 occ4w1  movew2 mhlthw2 dauthw3 healthef HP2vacatn cataw3 ncon
> tw3 pillw3 WHPel  ra : R2ADJ -.5150976
```

```
R2ADJ -.5163902 :      remove   trgovw1
R2ADJ -.5120149 :      remove   ecprw1
R2ADJ -.5115633 :      remove   polprw1
R2ADJ -.5139148 :      remove   airw1
R2ADJ -.4966002 :      remove   radchw1
R2ADJ -.5030112 :      remove   dauthw3
R2ADJ -.4703305 :      remove   healthef
R2ADJ -.5109447 :      remove   HP2vacatn
R2ADJ -.5146465 :      remove   shhousw1
R2ADJ -.5153813 :      remove   trrepw1
R2ADJ -.5160639 :      remove   childw1
R2ADJ -.5153542 :      remove   radtlw1
R2ADJ -.4845463 :      remove   illw2
R2ADJ -.5162794 :      remove   emplw13
R2ADJ -.5127898 :      remove   emplw16
R2ADJ -.5019578 :      remove   emplw24
R2ADJ -.5105265 :      remove   inc4w1
R2ADJ -.5069949 :      remove   cataw3
R2ADJ -.5034456 :      remove   occ3w1
R2ADJ -.5119888 :      remove   occ4w1
R2ADJ -.5122372 :      remove   movew2
R2ADJ -.5099065 :      remove   mhlthw2
R2ADJ -.5030112 :      remove   dauthw3
R2ADJ -.4703305 :      remove   healthef
R2ADJ -.5109447 :      remove   HP2vacatn
R2ADJ -.5069949 :      remove   cataw3
R2ADJ -.5142562 :      remove   ncontw3
R2ADJ -.514975  :      remove   pillw3
R2ADJ -.5080837 :      remove   WHPel
R2ADJ -.3834576 :      remove   radchw3
```

```
Stage 10 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn s
> hhousw1 trrepw1 childw1 radtlw1 illw2  emplw13 emplw16 emplw24 inc4w1 cataw3
> occ3w1 occ4w1  movew2 mhlthw2 dauthw3 healthef HP2vacatn cataw3 ncontw3 pil
> lw3 WHPel  radchw3  : R2ADJ -.5163902
```

```
R2ADJ -.5123627 :      remove   ecprw1
R2ADJ -.512656  :      remove   polprw1
R2ADJ -.5154524 :      remove   airw1
R2ADJ -.4976797 :      remove   radchw1
R2ADJ -.5038947 :      remove   dauthw3
R2ADJ -.4660261 :      remove   healthef
R2ADJ -.5119123 :      remove   HP2vacatn
R2ADJ -.5161128 :      remove   shhousw1
R2ADJ -.5173731 :      remove   trrepw1
```

R2ADJ	-.5173429	:	remove	childw1
R2ADJ	-.5167075	:	remove	radtlw1
R2ADJ	-.4860895	:	remove	illw2
R2ADJ	-.5175431	:	remove	emplw13
R2ADJ	-.5141253	:	remove	emplw16
R2ADJ	-.5034071	:	remove	emplw24
R2ADJ	-.5115294	:	remove	inc4w1
R2ADJ	-.5078069	:	remove	cataw3
R2ADJ	-.5051268	:	remove	occ3w1
R2ADJ	-.513454	:	remove	occ4w1
R2ADJ	-.5140043	:	remove	movew2
R2ADJ	-.5114752	:	remove	mhlthw2
R2ADJ	-.5038947	:	remove	dauthw3
R2ADJ	-.4660261	:	remove	healthef
R2ADJ	-.5119123	:	remove	HP2vacatn
R2ADJ	-.5078069	:	remove	cataw3
R2ADJ	-.5154281	:	remove	ncontw3
R2ADJ	-.5163404	:	remove	pillw3
R2ADJ	-.5095763	:	remove	WHPel
R2ADJ	-.3859832	:	remove	radchw3

```

Stage 11 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn s
> hhousw1 trrepw1 childw1 radtlw1 illw2 emplw16 emplw24 inc4w1 cataw3 occ3w1
> occ4w1 movew2 mhlthw2 dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPe
> 1 radchw3 : R2ADJ -.5175431

```

R2ADJ	-.5139054	:	remove	ecprw1
R2ADJ	-.5136846	:	remove	polprw1
R2ADJ	-.5164536	:	remove	airw1
R2ADJ	-.4987572	:	remove	radchw1
R2ADJ	-.5055052	:	remove	dauthw3
R2ADJ	-.4665119	:	remove	healthef
R2ADJ	-.5133364	:	remove	HP2vacatn
R2ADJ	-.5173458	:	remove	shhousw1
R2ADJ	-.5184842	:	remove	trrepw1
R2ADJ	-.5179968	:	remove	childw1
R2ADJ	-.5177448	:	remove	radtlw1
R2ADJ	-.4871267	:	remove	illw2
R2ADJ	-.5159614	:	remove	emplw16
R2ADJ	-.5047773	:	remove	emplw24
R2ADJ	-.5130565	:	remove	inc4w1
R2ADJ	-.5089506	:	remove	cataw3
R2ADJ	-.5064328	:	remove	occ3w1
R2ADJ	-.514215	:	remove	occ4w1
R2ADJ	-.5144838	:	remove	movew2
R2ADJ	-.5128583	:	remove	mhlthw2
R2ADJ	-.5055052	:	remove	dauthw3
R2ADJ	-.4665119	:	remove	healthef
R2ADJ	-.5133364	:	remove	HP2vacatn

R2ADJ	-.5089506	:	remove	cataw3
R2ADJ	-.5166188	:	remove	ncontw3
R2ADJ	-.5175955	:	remove	pillw3
R2ADJ	-.5106437	:	remove	WHPel
R2ADJ	-.3807518	:	remove	radchw3

```

Stage 12 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn s
> hhousw1 childw1 radtlw1 illw2 emplw16 emplw24 inc4w1 cataw3 occ3w1 occ4w1
> movew2 mhlthw2 dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPel radch
> w3 : R2ADJ -.5184842

```

R2ADJ	-.5153509	:	remove	ecprw1
R2ADJ	-.5150205	:	remove	polprw1
R2ADJ	-.5168792	:	remove	airw1
R2ADJ	-.4999598	:	remove	radchw1
R2ADJ	-.506661	:	remove	dauthw3
R2ADJ	-.468196	:	remove	healthef
R2ADJ	-.5144893	:	remove	HP2vacatn
R2ADJ	-.5185952	:	remove	shhousw1
R2ADJ	-.5189871	:	remove	childw1
R2ADJ	-.5186935	:	remove	radtlw1
R2ADJ	-.4883161	:	remove	illw2
R2ADJ	-.5171153	:	remove	emplw16
R2ADJ	-.505667	:	remove	emplw24
R2ADJ	-.5143701	:	remove	inc4w1
R2ADJ	-.510327	:	remove	cataw3
R2ADJ	-.5075872	:	remove	occ3w1
R2ADJ	-.5155306	:	remove	occ4w1
R2ADJ	-.5156185	:	remove	movew2
R2ADJ	-.5134968	:	remove	mhlthw2
R2ADJ	-.506661	:	remove	dauthw3
R2ADJ	-.468196	:	remove	healthef
R2ADJ	-.5144893	:	remove	HP2vacatn
R2ADJ	-.510327	:	remove	cataw3
R2ADJ	-.5175328	:	remove	ncontw3
R2ADJ	-.5184386	:	remove	pillw3
R2ADJ	-.5117659	:	remove	WHPel
R2ADJ	-.3832443	:	remove	radchw3

```

Stage 13 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn s
> hhousw1 radtlw1 illw2 emplw16 emplw24 inc4w1 cataw3 occ3w1 occ4w1 movew2
> mhlthw2 dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPel radchw3 : R
> 2ADJ -.5189871

```

R2ADJ	-.5144869	:	remove	ecprw1
R2ADJ	-.5150032	:	remove	polprw1
R2ADJ	-.5176657	:	remove	airw1
R2ADJ	-.4997533	:	remove	radchw1
R2ADJ	-.5072445	:	remove	dauthw3

R2ADJ	-.4682862	:	remove	healthef
R2ADJ	-.5149637	:	remove	HP2vacatn
R2ADJ	-.5189278	:	remove	shhousw1
R2ADJ	-.5193379	:	remove	radtlw1
R2ADJ	-.4867779	:	remove	illw2
R2ADJ	-.5150589	:	remove	emplw16
R2ADJ	-.5056765	:	remove	emplw24
R2ADJ	-.5155429	:	remove	inc4w1
R2ADJ	-.5110214	:	remove	cataw3
R2ADJ	-.5090092	:	remove	occ3w1
R2ADJ	-.5151615	:	remove	occ4w1
R2ADJ	-.5159142	:	remove	movew2
R2ADJ	-.5135769	:	remove	mhlthw2
R2ADJ	-.5072445	:	remove	dauthw3
R2ADJ	-.4682862	:	remove	healthef
R2ADJ	-.5149637	:	remove	HP2vacatn
R2ADJ	-.5110214	:	remove	cataw3
R2ADJ	-.5182299	:	remove	ncontw3
R2ADJ	-.5190236	:	remove	pillw3
R2ADJ	-.5116064	:	remove	WHPel
R2ADJ	-.3806586	:	remove	radchw3

```

Stage 14 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn s
> hhousw1 illw2 emplw16 emplw24 inc4w1 cataw3 occ3w1 occ4w1 movew2 mhlthw2
> dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPel radchw3 : R2ADJ -.5
> 193379

```

R2ADJ	-.5150832	:	remove	ecprw1
R2ADJ	-.515255	:	remove	polprw1
R2ADJ	-.5182082	:	remove	airw1
R2ADJ	-.484299	:	remove	radchw1
R2ADJ	-.5087152	:	remove	dauthw3
R2ADJ	-.4685994	:	remove	healthef
R2ADJ	-.5157009	:	remove	HP2vacatn
R2ADJ	-.51915	:	remove	shhousw1
R2ADJ	-.4852417	:	remove	illw2
R2ADJ	-.5154744	:	remove	emplw16
R2ADJ	-.5058787	:	remove	emplw24
R2ADJ	-.5160191	:	remove	inc4w1
R2ADJ	-.511325	:	remove	cataw3
R2ADJ	-.5101665	:	remove	occ3w1
R2ADJ	-.5154521	:	remove	occ4w1
R2ADJ	-.5168257	:	remove	movew2
R2ADJ	-.5143395	:	remove	mhlthw2
R2ADJ	-.5087152	:	remove	dauthw3
R2ADJ	-.4685994	:	remove	healthef
R2ADJ	-.5157009	:	remove	HP2vacatn
R2ADJ	-.511325	:	remove	cataw3
R2ADJ	-.518665	:	remove	ncontw3

```
R2ADJ -.5197803 :      remove      pillw3
R2ADJ -.5114835 :      remove      WHPel
R2ADJ -.3830984 :      remove      radchw3
```

```
Stage 15 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn s
> hhousw1 illw2  emplw16 emplw24 inc4w1 cataw3 occ3w1 occ4w1  movew2 mhlthw2
> dauthw3 healthef HP2vacatn cataw3 ncontw3 WHPel  radchw3  : R2ADJ -.5197803
```

```
R2ADJ -.5145358 :      remove      ecprw1
R2ADJ -.5157778 :      remove      polprw1
R2ADJ -.5189916 :      remove      airw1
R2ADJ -.485563  :      remove      radchw1
R2ADJ -.5092429 :      remove      dauthw3
R2ADJ -.469076  :      remove      healthef
R2ADJ -.516998  :      remove      HP2vacatn
R2ADJ -.5197691 :      remove      shhousw1
R2ADJ -.4847488 :      remove      illw2
R2ADJ -.5166963 :      remove      emplw16
R2ADJ -.5066026 :      remove      emplw24
R2ADJ -.5162941 :      remove      inc4w1
R2ADJ -.51255   :      remove      cataw3
R2ADJ -.5113247 :      remove      occ3w1
R2ADJ -.5161189 :      remove      occ4w1
R2ADJ -.5177755 :      remove      movew2
R2ADJ -.5153716 :      remove      mhlthw2
R2ADJ -.5092429 :      remove      dauthw3
R2ADJ -.469076  :      remove      healthef
R2ADJ -.516998  :      remove      HP2vacatn
R2ADJ -.51255   :      remove      cataw3
R2ADJ -.5194113 :      remove      ncontw3
R2ADJ -.5122683 :      remove      WHPel
R2ADJ -.3852055 :      remove      radchw3
```

Final Model

```
note: dauthw3 omitted because of collinearity
note: healthef omitted because of collinearity
note: HP2vacatn omitted because of collinearity
note: cataw3 omitted because of collinearity
```

Source	SS	df	MS
Model	164292.835	20	8214.64173
Residual	131329.822	247	531.699685
Total	295622.657	267	1107.20096

```
Number of obs =      268
F( 20, 247) =    15.45
Prob > F      =    0.0000
R-squared     =    0.5558
Adj R-squared =    0.5198
Root MSE     =    23.059
```

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ecprw1	.1000545	.0519568	1.93	0.055	-.0022804	.2023894
polprw1	.095306	.0544202	1.75	0.081	-.0118808	.2024928
airw1	.0654778	.0551951	1.19	0.237	-.0432354	.1741909
radchw1	-.239549	.0554386	-4.32	0.000	-.3487416	-.1303564
dauthw3	.1102263	.043429	2.54	0.012	.0246879	.1957647
healthef	.2757968	.052896	5.21	0.000	.1716122	.3799815
HP2vacatn	6.635776	4.250819	1.56	0.120	-1.736701	15.00825
shhousw1	.0422107	.0420886	1.00	0.317	-.0406877	.125109
illw2	7.3654	1.685693	4.37	0.000	4.045235	10.68556
emplw16	-6.000029	3.726291	-1.61	0.109	-13.33939	1.339328
emplw24	-65.67834	23.50848	-2.79	0.006	-111.981	-19.37568
inc4w1	-10.12463	6.050184	-1.67	0.096	-22.04117	1.791898
cataw3	37.07783	17.0413	2.18	0.031	3.513028	70.64263
occ3w1	-11.56302	4.991315	-2.32	0.021	-21.39399	-1.732052
occ4w1	11.19447	6.584001	1.70	0.090	-1.773479	24.16241
movew2	-5.989686	4.198381	-1.43	0.155	-14.25888	2.279508
mhlthw2	-.1536787	.0848966	-1.81	0.071	-.3208922	.0135348
dauthw3	0	(omitted)				
healthef	0	(omitted)				
HP2vacatn	0	(omitted)				
cataw3	0	(omitted)				
ncontw3	-3.641176	3.337033	-1.09	0.276	-10.21385	2.931492
WHPel	.1068395	.0483667	2.21	0.028	.0115756	.2021033
radchw3	.4733642	.0563775	8.40	0.000	.3623224	.5844061
_cons	22.64885	11.69808	1.94	0.054	-.3918681	45.68957

```

29 .
30 .
31 . // some items dropped due to collinearity
32 . sw, pr(.1):regress radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 occ3w1 occ4w1 occ2w1 occ7w1 movew2 mhlthw2 ///
> dauthw3 healthef HP2vacatn cataw3 ncontw3 pillw3 WHPel WHPpa ///
> HP2probsoc radchw3 Havmil carcin
begin with full model
p = 0.8387 >= 0.1000 removing carcin
p = 0.8312 >= 0.1000 removing emplw12
p = 0.8010 >= 0.1000 removing deaw1
p = 0.7704 >= 0.1000 removing Havmil
p = 0.7762 >= 0.1000 removing HP2probsoc
p = 0.7044 >= 0.1000 removing emplw23
p = 0.6955 >= 0.1000 removing occ7w1
p = 0.7161 >= 0.1000 removing occ2w1
p = 0.6053 >= 0.1000 removing WHPpa

```

p = **0.5519** >= 0.1000 removing **trgovw1**
 p = **0.5172** >= 0.1000 removing **emplw13**
 p = **0.4698** >= 0.1000 removing **trrepw1**
 p = **0.3892** >= 0.1000 removing **childw1**
 p = **0.3659** >= 0.1000 removing **radtlw1**
 p = **0.3803** >= 0.1000 removing **pillw3**
 p = **0.3169** >= 0.1000 removing **shhousw1**
 p = **0.2883** >= 0.1000 removing **ncontw3**
 p = **0.2103** >= 0.1000 removing **airw1**
 p = **0.2179** >= 0.1000 removing **movew2**
 p = **0.1309** >= 0.1000 removing **HP2vacatn**
 p = **0.1118** >= 0.1000 removing **occ4w1**

Source	SS	df	MS	Number of obs =	268
Model	158908.762	14	11350.6259	F(14, 253) =	21.01
Residual	136713.895	253	540.371125	Prob > F =	0.0000
				R-squared =	0.5375
				Adj R-squared =	0.5119
Total	295622.657	267	1107.20096	Root MSE =	23.246

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
inc4w1	-11.55589	6.020653	-1.92	0.056	-23.41287	.3010951
ecprw1	.1436256	.0479149	3.00	0.003	.0492626	.2379885
polprw1	.1268958	.0476978	2.66	0.008	.0329605	.2208311
occ3w1	-12.64477	4.967546	-2.55	0.012	-22.42778	-2.861758
radchw1	-.2160174	.0545994	-3.96	0.000	-.3235446	-.1084902
emplw24	-67.67581	23.64373	-2.86	0.005	-114.2394	-21.11221
dauthw3	.1096147	.0432123	2.54	0.012	.024513	.1947163
mhlthw2	-.1504235	.082863	-1.82	0.071	-.3136127	.0127657
radchw3	.4623205	.0557284	8.30	0.000	.3525699	.5720711
illw2	7.948901	1.654276	4.81	0.000	4.690995	11.20681
cataw3	31.90971	16.77551	1.90	0.058	-1.127729	64.94715
healthef	.258724	.0527516	4.90	0.000	.1548358	.3626121
emplw16	-6.930658	3.684717	-1.88	0.061	-14.18728	.3259667
WHPel	.1216067	.0464279	2.62	0.009	.0301723	.213041
_cons	19.63941	9.232118	2.13	0.034	1.457813	37.821

```

33 .
34 . subtitle "Global female 3 wave polychoric correlation input to factor analy
> sis"

```

```

Date and time: 26 Apr 2012 12:43:11
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta
data file has 2196 variables
and 363 observations

```

Global female 3 wave polychoric correlation input to factor analysis

```

35 .
36 . set more off

37 . // variables with missing values are dropped because the program cannot proc
> ess them
38 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacat
> n ///
> shhousw1 trrepw1 childw1 radtlw1 ///
> deaw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> pillw1 pillw3 smokw1 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin

```

Polychoric correlation matrix

```

          trgovw1      ecprw1      polprw1      airw1      radchw1      dau
> thw3  healthef  HP2vacatn  shhousw1
  trgovw1          1
  ecprw1    .2925064          1
  polprw1    .12184494    .39239516          1
  airw1    -.02863384    .38897016    .61081872          1
  radchw1    .04897511    .13340862    .34536196    .28047883          1
  dauthw3    .09270458    .12495149    .07728414    .07190471    .19741141
> 1
  healthef    .26020505    .19683797    .03898451    .01292208    .07783731    -.025
> 3424          1
  HP2vacatn    .14817948    .15677805    .12261106    .03888214    .21793332    .0235
> 3278    .08166749          1
  shhousw1    .14792003    .32135945    .12515989    .10417081    .07437734    .1312
> 0836    .0995393    .16421818          1
  trrepw1    .70162183    .22103517    .11336777    -.0182153    .08511285    .0549

```

```

> 3306      .0976134      .16023659      .19413949
      childw1      .10072118      .24190738      .16955589      .11070591      .13530538      -.0117
> 8642      .13014742      .2126751      .13309746
      radtlw1      .05780921      .17698236      .27161026      .24664881      .70408502      .2457
> 1084      .04633721      .14897058      .04764066
      deaw1      .14156703      .32742459      .15812258      .20387921      .3260034      .0936
> 9836      .30801706      .27259823      .27641328
      movew2      .09577367      -.20603165      -.07178976      -.06304018      -.22945698      -.1172
> 2086      -.0530512      -.12312243      .08341288
      mhlthw2      .06800134      -.01810099      -.06586059      -.14373822      -.0351754      .0613
> 5887      -.08310601      -.05628006      -.14490101
      goferw1      .18798722      .24703551      .10593228      .05306059      .23351314      .107
> 3229      .26339787      .223387      .18034819
      goferw2      .20815427      .23529715      .01669915      .00214899      .02993508      -.0172
> 5079      .18247915      .09902053      .28848428
      fdferw1      .11638319      .25459476      .19303817      .11439224      .21204999      .1402
> 1736      .2374408      .17636865      .23334633
      fdferw2      .14624649      .22486178      .08049475      .01227137      -.02452082      .0251
> 5983      .21738692      .11240693      .2429841
      pillw1      .02994685      .05809191      .11617118      .17324874      .09369385      -.0013
> 0389      .08958854      .12889884      .15556909
      pillw3      .0090604      -.06221105      .04459829      .08471287      .06754634      -.0118
> 8541      -.04445391      .18101798      .04083177
      smokw1      -.07307635      -.0490996      -.0952559      -.01456704      .04067984      -.031
> 7973      -.06889821      -.37671433      -.00979282
      liqw2      -.03419629      -.12917371      -.22106655      -.160224      -.23452616      .0281
> 0497      .18542122      -.02762358      .0023577
      WHPel      .0364827      .04891193      -.07476003      -.03925422      -.01061186      .0151
> 1755      .18336741      .4552936      .13578782
      WHPpa      .12256219      .18050662      .10592064      .12359812      .13672567      -.0595
> 0252      .11432752      .4985807      .19090326
HP2probsoc      .21961841      .17495999      -.00804436      .00734792      .14598468      -.0956
> 2901      .26632211      .835837      .09677539
      radchw3      .12665152      .1912798      .22114081      .1428839      .63060802      .0818
> 7722      .24958321      .06614541      .03871303
      Havmil      .0723578      -.05331098      -.09361034      -.14725708      -.17907051      -.1453
> 0192      .0799641      -.05492334      -.04658785
      carcin      .2658182      .20491678      .0504004      .01535884      .08746267      -.0231
> 2654      .99232509      .07521004      .09585047

```

```

      trrepw1      childw1      radtlw1      deaw1      movew2      mhl
> thw2      goferw1      goferw2      fdferw1
      trrepw1      1
      childw1      .13421725      1
      radtlw1      .0622087      .09467815      1
      deaw1      .26434799      .292884      .24306356      1
      movew2      -.10137806      -.20728334      -.30003304      -.30874962      1
      mhlthw2      .0258022      -.16653265      -.01306034      .10717234      -.03317522
>      1
      goferw1      .25013788      .26279295      .16286965      .4281554      -.17186639      -.0099
> 5891      1
      goferw2      .25988006      .12667677      .06209327      .17474508      .13347838      -.0493
> 2555      .41385457      1
      fdferw1      .18457343      .19997079      .14690461      .29316888      -.09240852      -.1013
> 4869      .7077294      .39605581      1
      fdferw2      .17891791      .02854278      -.01376834      .12197715      .1421934      -.1139
> 3451      .31304294      .62617741      .53778153
      pillw1      .07418528      .0588959      .06436149      .14366339      -.38272473      -.1818
> 6134      .20689838      .20323211      .1445442
      pillw3      .04412137      .0906591      -.03151179      .03167934      -.41906785      -.1419
> 1309      -.00737643      -.00600459      -.01880518
      smokw1      -.12463166      .08656407      .02565182      -.10535562      -.11418279      -.0863
> 4289      -.06605112      .03510181      -.0454791
      liqw2      -.12724794      .03075063      -.26424566      -.12469448      .11843386      .0145
> 7784      .09616706      -.06332401      .04875009
      WHPel      .06443224      .21486433      -.0744497      .16819121      .01182477      -.3307
> 0731      .14623139      .09767023      .23097706
      WHPpa      .12372541      .37119646      .08726252      .21344644      -.08262597      -.1968
> 2344      .18250871      .16522882      .17656362
      HP2probsoc      .22921345      .37258562      .04919228      .33263062      -.22316032      -.1483
> 5359      .31811222      .16075191      .29636468
      radchw3      .15398659      .1579233      .50341496      .35788583      -.11023523      .0469
> 4064      .30891587      .20993143      .23330719
      Havmil      .08393748      -.05573283      -.20314853      -.07116484      .23087032      .0469
> 8759      -.08228844      .17205945      -.01041155
      carcin      .10477803      .14078977      .05479401      .31686218      -.05838033      -.0757
> 7699      .26483482      .18066581      .23859556

```

```

                fdferw2      pillw1      pillw3      smokw1      liqw2      W
> HPel          WHPpa  HP2probsoc      radchw3
    fdferw2          1
    pillw1      .15241859          1
    pillw3      -.00289137      .53485485          1
    smokw1      -.02041271      -.05087091      .08230668          1
    liqw2      .02206372      -.04439671      -.0372862      .07415344          1
    WHPel      .16658456      .06330367      .09607341      .02952845      .11925419
>      1
    WHPpa      .06098769      .04830836      .1360054      .02461466      .06277766      .5095
> 8928          1
HP2probsoc      .13150819      .11439298      .17478567      -.11436832      .12957192      .5812
> 4315      .60911752          1
    radchw3      .07732944      .12023316      .03931777      -.00470148      -.15281373      -.017
> 8984      .14751172      .21237931          1
    Havmil      .18103015      -.03217386      -.06164148      -.0610103      .04788916      -.2710
> 8554      -.06383975      -.20559121      .01968851
    carcin      .21373333      .09237535      -.05132859      -.07382018      .17893984      .1906
> 1363      .11293196      .26577705      .25882785

                Havmil      carcin
    Havmil          1
    carcin      .08106775          1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	5.334788	0.183958	0.183958
2	2.814835	0.097063	0.281021
3	2.450068	0.084485	0.365507
4	1.807476	0.062327	0.427833
5	1.723416	0.059428	0.487261
6	1.598035	0.055105	0.542366
7	1.496319	0.051597	0.593963
8	1.281539	0.044191	0.638154
9	1.244398	0.042910	0.681065
10	1.106963	0.038171	0.719236
11	0.915677	0.031575	0.750811
12	0.894459	0.030843	0.781654
13	0.781585	0.026951	0.808605
14	0.748683	0.025817	0.834422
15	0.602183	0.020765	0.855187
16	0.579072	0.019968	0.875155
17	0.519353	0.017909	0.893064
18	0.473091	0.016313	0.909377
19	0.456507	0.015742	0.925119
20	0.397218	0.013697	0.938816
21	0.369797	0.012752	0.951568

22	0.320827	0.011063	0.962631
23	0.289204	0.009973	0.972603
24	0.266137	0.009177	0.981780
25	0.224349	0.007736	0.989516
26	0.174580	0.006020	0.995536
27	0.119571	0.004123	0.999660
28	0.008937	0.000308	0.999968
29	0.000935	0.000032	1.000000

39 . matrix define mypolychorall= r(R)

40 . factormat mypolychorall, n(363) blanks(.36) factors(8)
(obs=363)

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	8
Rotation: (unrotated)	Number of params	=	204

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	5.18236	2.48068	0.2135	0.2135
Factor2	2.70168	0.39150	0.1113	0.3247
Factor3	2.31018	0.61756	0.0952	0.4199
Factor4	1.69263	0.13457	0.0697	0.4896
Factor5	1.55806	0.15038	0.0642	0.5538
Factor6	1.40769	0.03437	0.0580	0.6118
Factor7	1.37331	0.23327	0.0566	0.6683
Factor8	1.14004	0.02527	0.0470	0.7153
Factor9	1.11477	0.20813	0.0459	0.7612
Factor10	0.90664	0.16636	0.0373	0.7985
Factor11	0.74028	0.03427	0.0305	0.8290
Factor12	0.70601	0.10300	0.0291	0.8581
Factor13	0.60300	0.04120	0.0248	0.8829
Factor14	0.56180	0.13551	0.0231	0.9061
Factor15	0.42629	0.04309	0.0176	0.9236
Factor16	0.38320	0.06339	0.0158	0.9394
Factor17	0.31981	0.02667	0.0132	0.9526
Factor18	0.29314	0.03676	0.0121	0.9647
Factor19	0.25637	0.04360	0.0106	0.9752
Factor20	0.21277	0.02179	0.0088	0.9840
Factor21	0.19098	0.04620	0.0079	0.9919
Factor22	0.14478	0.01932	0.0060	0.9978
Factor23	0.12546	0.03604	0.0052	1.0030
Factor24	0.08942	0.08805	0.0037	1.0067
Factor25	0.00136	0.01482	0.0001	1.0067
Factor26	-0.01345	0.00933	-0.0006	1.0062
Factor27	-0.02278	0.03851	-0.0009	1.0052
Factor28	-0.06129	0.00464	-0.0025	1.0027

Factor29	-0.06593	.	-0.0027	1.0000
----------	----------	---	---------	--------

LR test: independent vs. saturated: $\chi^2(406) = 7216.12$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Factor8	Uniqueness				
trgovw1	0.3813				-0.3674	
ecprw1	0.4972	0.3437				
polprw1	0.3613	0.5195				
0.4252		-0.4751				
airw1		0.3078				0.3615
0.4176		-0.4588				
radchw1	0.4783	0.3597				
		-0.6250				
dauthw3		0.2385				
0.3867		0.7210				
healthef	0.4962			-0.6264		
		0.0379				
HP2vacatn	0.5597		-0.5290		-0.4007	
		0.1413				
shhousw1	0.3679					
		0.6845				
trrepw1	0.4060					-0.4072
		0.4119				
childw1	0.4336					
		0.7485				
radtlw1	0.3958	-0.6468				
		0.3105				
deaw1	0.5852					
		0.6142				
movew2		0.3691				0.4793
		0.2524				
mhlthw2						
		0.6069				
goferw1	0.6447					
-0.3671		0.3523				
goferw2	0.4354					
		0.4299				
fdferw1	0.6218					
		0.2943				
fdferw2	0.3849					

```

>
> pillw1 | | 0.4530 | | 0.4587 | -0.3682
>
> pillw3 | | 0.4549 | | -0.3953 | 0.4063 | -0.4556
>
> smokw1 | | 0.3566 | | 0.4857
>
> liqw2 | | 0.6092 | | 0.4488
>
> | | 0.6524
> WHPel | 0.3992 | 0.3706 | -0.4697
>
> | | 0.4076
> WHPpa | 0.4979 | | -0.4304
>
> | | 0.4856
> HP2probsoc | 0.6701 | | -0.5449
>
> | | 0.0849
> radchw3 | 0.5163 | -0.3733
>
> | | 0.3112
> Havmil | | | 0.4096
>
> -0.5086 | | 0.4116
> carcin | 0.5029 | | -0.6286
>
> | | 0.0323
>
>
> (blanks represent abs(loading)<.36)

```

```
41 .
42 . // 6 factors account for 72% of the common variance
43 . // factor 9 is a singleton
44 . rotate, blanks(.34)
```

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	8
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	204

Factor	Variance	Difference	Proportion	Cumulative
Factor1	3.03202	0.42314	0.1249	0.1249
Factor2	2.60888	0.01966	0.1075	0.2323
Factor3	2.58922	0.23494	0.1066	0.3390
Factor4	2.35428	0.41819	0.0970	0.4360
Factor5	1.93609	0.18646	0.0797	0.5157
Factor6	1.74963	0.00873	0.0721	0.5878
Factor7	1.74089	0.38595	0.0717	0.6595
Factor8	1.35494	.	0.0558	0.7153

LR test: independent vs. saturated: $\chi^2(406) = 7216.12$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

	Variable		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
	Factor7	Factor8	Uniqueness					
	trgovw1							0.7590
			0.3437					
	ecprw1						0.4973	
			0.5195					
	polprw1						0.7846	
			0.3078					
	airw1						0.7708	
			0.3597					
	radchw1		0.8344					
			0.2385					
	dauthw3							
		0.3898	0.7210					
	healthef					0.9693		
			0.0379					
	HP2vacatn		0.8874					
			0.1413					
	shhousw1				0.3945			
			0.6845					
	trrepw1							0.7153
			0.4119					
	childw1							
			0.7485					
	radtlw1		0.7981					
			0.3105					
	deaw1							
			0.6142					
	movew2							
	-0.7292		0.2524					
	mhlthw2							0.3875
			0.6069					
	goferw1				0.6607			
			0.3523					
	goferw2				0.7020			
			0.4299					
	fdferw1				0.7811			
			0.2943					
	fdferw2				0.6887			
			0.4530					
	pillw1							
	0.6800		0.4549					
	pillw3							


```

45 .
46 .
47 . use chwide22apr2012males, clear
    (OxMetrics data)

48 . di "Male sample size = ", _N
    Male sample size = 340

49 . di c(filename)
    chwide22apr2012males.dta

50 . di c(k) " Variables"
    2179 Variables

51 . di "file sample size = ", _N
    file sample size = 340

52 .
53 . tab gender

```

respondent's gender	Freq.	Percent	Cum.
1. male	340	100.00	100.00
Total	340	100.00	

```

54 .
55 . subtitle "male variable index for wave3 only"

```

```

                                Date and time: 26 Apr 2012   12:43:32
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2179 variables
                                and 340 observations

```

male variable index for wave3 only

```

56 . des   healthef HP2vacatn HP2probsoc cataw3 pillw3 WHPel WHPpa   ///
>   radchw3

```

variable name	storage type	display format	value label	variable label
healthef	double			a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	double		choice1732	Hlth profile Pt2: Hlth probs interfering with vacations
HP2probsoc	double		choice1728	Hlth profile Pt2: Hlth causing probs with social life
cataw3	double			Total number of disasters experienced in time period 1996-NOW
pillw3	double			number of pills for pain per week in 1997-now
WHPel	double			Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	double			Wtd Health Profile Physical Ability Pt 1 Subscale
radchw3	double			believed % of polution related to chornobyl NOW

```

57 .
58 . vselect radfmw3 healthef HP2vacatn HP2probsoc cataw3 pillw3 WHPel WHPpa   //
> /
>   radchw3, backward r2adj
BACKWARD variable selection
Information Criteria: R2ADJ

```

```

Stage 0 reg radfmw3 healthef HP2vacatn HP2probsoc cataw3 pillw3 WHPel WHPpa ra
> dchw3 : R2ADJ -.3223118

```

```

R2ADJ -.166265 :      remove healthef
R2ADJ -.3216945 :      remove HP2vacatn
R2ADJ -.3071575 :      remove HP2probsoc
R2ADJ -.3229036 :      remove cataw3
R2ADJ -.323972 :      remove pillw3
R2ADJ -.3205196 :      remove WHPel
R2ADJ -.314547 :      remove WHPpa
R2ADJ -.3053505 :      remove radchw3

```

```

Stage 1 reg radfmw3 healthef HP2vacatn HP2probsoc cataw3 WHPel WHPpa radchw3 :
> R2ADJ -.323972

```

```

R2ADJ -.1619504 :      remove  healthef
R2ADJ -.3232798 :      remove  HP2vacatn
R2ADJ -.3090328 :      remove  HP2probsoc
R2ADJ -.3244538 :      remove   cataw3
R2ADJ -.3225074 :      remove   WHPel
R2ADJ -.3160708 :      remove   WHPpa
R2ADJ -.3072769 :      remove   radchw3

```

```

Stage 2 reg radfmw3 healthef HP2vacatn HP2probsoc  WHPel WHPpa radchw3 : R2ADJ
> -.3244538

```

```

R2ADJ -.1625029 :      remove  healthef
R2ADJ -.3238795 :      remove  HP2vacatn
R2ADJ -.3098889 :      remove  HP2probsoc
R2ADJ -.3224658 :      remove   WHPel
R2ADJ -.3167951 :      remove   WHPpa
R2ADJ -.3072251 :      remove   radchw3

```

Final Model

Source	SS	df	MS	Number of obs =	340
Model	140347.249	6	23391.2082	F(6, 333) =	28.14
Residual	276843.395	333	831.361547	Prob > F =	0.0000
				R-squared =	0.3364
				Adj R-squared =	0.3245
Total	417190.644	339	1230.65087	Root MSE =	28.833

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
healthef	.4760404	.0528702	9.00	0.000	.3720386	.5800421
HP2vacatn	6.849172	6.044625	1.13	0.258	-5.041291	18.73964
HP2probsoc	17.87016	6.240115	2.86	0.004	5.59515	30.14518
WHPel	.0893527	.0634538	1.41	0.160	-.0354682	.2141736
WHPpa	.2898971	.1325048	2.19	0.029	.0292451	.5505491
radchw3	.1497964	.0485541	3.09	0.002	.054285	.2453078
_cons	10.35749	4.318299	2.40	0.017	1.862909	18.85208

```

59 .
60 . sw, pr(.1): regress radfmw3  healthef HP2vacatn HP2probsoc cataw3 pillw3 WHP
    > el WHPpa  ///
    >   radchw3
                                begin with full model
p = 0.6660 >= 0.1000  removing pillw3
p = 0.3831 >= 0.1000  removing cataw3
p = 0.2580 >= 0.1000  removing HP2vacatn
p = 0.1220 >= 0.1000  removing WHPel

```

Source	SS	df	MS	Number of obs =	340
Model	137279.689	4	34319.9223	F(4, 335) =	41.07
Residual	279910.955	335	835.555089	Prob > F =	0.0000
				R-squared =	0.3291
				Adj R-squared =	0.3210
Total	417190.644	339	1230.65087	Root MSE =	28.906

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
healthef	.4752113	.0529508	8.97	0.000	.3710533	.5793692
radchw3	.1446004	.048566	2.98	0.003	.0490677	.2401331
HP2probsoc	23.44596	5.301242	4.42	0.000	13.01805	33.87388
WHPpa	.3905681	.1201706	3.25	0.001	.1541839	.6269522
_cons	11.91588	4.248844	2.80	0.005	3.558104	20.27366

```

61 .
62 . subtitle "Specific wave three male factor analysis"

```

```

                                Date and time: 26 Apr 2012    12:43:33
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2180 variables
                                and 340 observations

```

Specific wave three male factor analysis

```

63 . factor  healthef HP2vacatn HP2probsoc cataw3 pillw3 WHPel WHPpa  ///
>      radchw3, factors(2)
(obs=340)

```

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	15

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.69587	1.28132	0.9927	0.9927
Factor2	0.41455	0.19458	0.2427	1.2354
Factor3	0.21998	0.19178	0.1288	1.3641
Factor4	0.02820	0.09193	0.0165	1.3807
Factor5	-0.06373	0.04862	-0.0373	1.3433
Factor6	-0.11236	0.08882	-0.0658	1.2776
Factor7	-0.20118	0.07184	-0.1178	1.1598
Factor8	-0.27301	.	-0.1598	1.0000

LR test: independent vs. saturated: $\chi^2(28) = 395.87$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef	0.1128	0.1948	0.9493
HP2vacatn	0.6376	-0.2342	0.5387
HP2probsoc	0.6851	-0.2158	0.4840
cataw3	0.0016	0.1435	0.9794
pillw3	0.1589	0.0009	0.9747
WHPel	0.6420	0.1633	0.5611
WHPpa	0.6081	0.2771	0.5534
radchw3	0.0038	0.3887	0.8489

64 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	15

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.54933	0.98823	0.9069	0.9069
Factor2	0.56110	.	0.3285	1.2354

LR test: independent vs. saturated: $\chi^2(28) = 395.87$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef			0.9493
HP2vacatn	0.6792		0.5387
HP2probsoc	0.7177		0.4840
cataw3			0.9794
pillw3			0.9747
WHPel	0.5490	0.3708	0.5611
WHPpa	0.4785	0.4664	0.5534
radchw3		0.3671	0.8489

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.9411	0.3382
Factor2	-0.3382	0.9411

```

65 .
66 .
67 . polychoricpca healthef HP2vacatn HP2probsoc pillw3 WHPel WHPpa ///
> radchw3

```

Polychoric correlation matrix

```

> HPpa      healthef  HP2vacatn  HP2probsoc      pillw3      WHPel      W
healthef      1
HP2vacatn    .03941102      1
HP2probsoc   .13055563    .84729944      1
pillw3       -.13212427    .08492368    .13462628      1
WHPel        .12420834    .55627457    .60899671    .20699261      1
WHPpa        .13060773    .40910931    .45216528    .07231754    .49833997
> 1
radchw3      .10350905   -.14722382   -.18505067    .02800855    .02660048    .1765
> 1723      1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.767208	0.395315	0.395315
2	1.235963	0.176566	0.571882
3	1.103745	0.157678	0.729559
4	0.794753	0.113536	0.843095
5	0.531992	0.075999	0.919094
6	0.426279	0.060897	0.979991
7	0.140060	0.020009	1.000000

```

68 . matrix define mypchoric3wsm=r(R)

```

```

69 . factormat mypchoric3wsm, factors(2) n(340) blanks(.36)
(obs=340)

```

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	13

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.37612	1.90445	0.9143	0.9143
Factor2	0.47167	0.24826	0.1815	1.0957
Factor3	0.22341	0.23774	0.0860	1.1817
Factor4	-0.01433	0.08984	-0.0055	1.1762
Factor5	-0.10416	0.02161	-0.0401	1.1361
Factor6	-0.12577	0.10223	-0.0484	1.0877
Factor7	-0.22800	.	-0.0877	1.0000

LR test: independent vs. saturated: $\chi^2(21) = 791.83$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef			0.9388
HP2vacatn	0.8536		0.2306
HP2probsoc	0.9006		0.1618
pillw3			0.9748
WHPel	0.7005		0.4727
WHPpa	0.5485		0.5809
radchw3		0.4498	0.7926

(blanks represent $\text{abs}(\text{loading}) < .36$)

70 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	13

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.28048	1.71317	0.8775	0.8775
Factor2	0.56731	.	0.2183	1.0957

LR test: independent vs. saturated: $\chi^2(21) = 791.83$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances


```

*****                               -                               *****
> *
*****                               Wave                               *****
> *
*****                               specific                           *****
> *
*****                               factor                             *****
> *
*****                               analysis)                         *****
> *
*****                               *****
> *
*****                               *****
> *
*****                               26 Apr 2012    12:43:36    *****
> *
*****
> *
*****
> *

```

```

80 .
81 . use chwide22apr2012females, clear

82 . ***** Definition of wave-specific factor analysis
83 . *-----We take only those selected variables that were observed in the speci
    > fic wave and separately
84 . *-----factor analyze them
85 .
86 .
87 . di c(filename)
    chwide22apr2012females.dta

88 .
89 . di "Female sample size = ",_N
    Female sample size = 363

```

```
90 .
91 . tab gender
```

respondent's gender	Freq.	Percent	Cum.
2. female	363	100.00	100.00
Total	363	100.00	

```
92 . set more off
```

```
93 . subtitle "***** Variable index for female Radfmw1 wave 1 model"
```

```

                                Date and time: 26 Apr 2012    12:43:36
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations

```

```
***** Variable index for female Radfmw1 wave 1 model
```

```
94 . des  trgovw1 ecprw1 polprw1 airw1 radchw1  ///
>  shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
>  emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
>  pillw1 smokw1 liqw1 Havmil
```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986

shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
emplw12	byte	%8.0g		emplw1==1. full time
emplw16	byte	%8.0g		emplw1==5. unemployed
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
pillw1	byte	%8.0g		number of pills for pain per week in 1976-1986
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
liqw1	byte	%8.0g		number of spirits per week in 1976-1986
Havmil	float	%9.0g		Distance from Chornobyl in miles

95 .

96 . *--- Full model

97 . regress radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 ///

> shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16 ///

> emplw24 inc4w1 deaw1 goferw1 fdferw1 ///

> pillw1 smokw1 liqw1 Havmil if gender==2

Source	SS	df	MS
Model	126724.886	20	6336.24428
Residual	190634.29	246	774.93614
Total	317359.176	266	1193.07961

Number of obs =	267
F(20, 246) =	8.18
Prob > F =	0.0000
R-squared =	0.3993
Adj R-squared =	0.3505
Root MSE =	27.838

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	-.0701733	.0680743	-1.03	0.304	-.2042561	.0639095
ecprw1	.1833715	.0644069	2.85	0.005	.0565123	.3102308
polprw1	.1543443	.0665362	2.32	0.021	.0232911	.2853976
airw1	-.0085375	.0663968	-0.13	0.898	-.1393163	.1222414
radchw1	.2148018	.0698186	3.08	0.002	.0772832	.3523204
shhousw1	.1161983	.0521852	2.23	0.027	.0134116	.2189851
trrepw1	-.0867421	.0686461	-1.26	0.208	-.2219512	.0484669
childw1	1.216589	2.213404	0.55	0.583	-3.143051	5.57623
radtlw1	.1877643	.0661796	2.84	0.005	.0574135	.3181151
emplw12	5.123956	7.437627	0.69	0.492	-9.525597	19.77351
emplw16	3.487543	7.857823	0.44	0.658	-11.98965	18.96474
emplw24	49.15374	28.98044	1.70	0.091	-7.92771	106.2352
inc4w1	-6.111862	7.222354	-0.85	0.398	-20.3374	8.113677
deaw1	2.099383	2.161399	0.97	0.332	-2.157826	6.356593
goferw1	-.0576145	.0736	-0.78	0.434	-.202581	.087352
fdferw1	.0190551	.0653425	0.29	0.771	-.1096471	.1477573
pillw1	.8010971	.6585023	1.22	0.225	-.4959247	2.098119
smokw1	.0695851	.1100528	0.63	0.528	-.1471809	.2863512
liqw1	4.977883	1.543744	3.22	0.001	1.937242	8.018524
Havmil	-.0008743	.0078131	-0.11	0.911	-.0162634	.0145148
_cons	13.04141	8.56619	1.52	0.129	-3.831026	29.91384

```

98 .
99 . *----- Trimmed female radfmw1 model vor wave 1
100 . sw, pr(.1): regress radfmw1 trrepw1 childw1 radtlw1 emplw12 emplw16 ///
> emplw24 inc4w1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 liqw1 Havmil if gender==2
begin with full model
p = 0.5672 >= 0.1000 removing emplw12
p = 0.7739 >= 0.1000 removing emplw16
p = 0.5080 >= 0.1000 removing smokw1
p = 0.4455 >= 0.1000 removing Havmil
p = 0.2402 >= 0.1000 removing goferw1
p = 0.2722 >= 0.1000 removing fdferw1
p = 0.2579 >= 0.1000 removing emplw24
p = 0.1700 >= 0.1000 removing inc4w1

```

Source	SS	df	MS
Model	85629.2439	6	14271.5406
Residual	233753.723	263	888.797425
Total	319382.967	269	1187.29727

```

Number of obs =      270
F(   6,   263) =    16.06
Prob > F       =    0.0000
R-squared      =    0.2681
Adj R-squared  =    0.2514
Root MSE      =    29.813

```

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trrepw1	-.0896636	.0505588	-1.77	0.077	-.1892151	.0098879
childw1	3.526183	2.029766	1.74	0.084	-.4704783	7.522843
radtlw1	.393383	.0499509	7.88	0.000	.2950285	.4917376
pillw1	1.19037	.6658069	1.79	0.075	-.1206201	2.501361
liqw1	5.226432	1.582816	3.30	0.001	2.109828	8.343036
deaw1	4.993576	2.172238	2.30	0.022	.7163847	9.270767
_cons	31.58458	4.355125	7.25	0.000	23.00923	40.15993

```

101 .
102 . vselect radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1  ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
>   emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
>   pillw1 smokw1 liqw1 Havmil, backward r2adj
96 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smok
> w1 liqw1 Havmil : R2ADJ -.3504741

```

```

R2ADJ -.3503094 :      remove      trgovw1
R2ADJ -.3317881 :      remove      ecprw1
R2ADJ -.3389534 :      remove      polprw1
R2ADJ -.3530603 :      remove      airw1
R2ADJ -.3282133 :      remove      radchw1
R2ADJ -.3400659 :      remove      shhousw1
R2ADJ -.3489049 :      remove      trrepw1
R2ADJ -.3523093 :      remove      childw1
R2ADJ -.3319358 :      remove      radtlw1
R2ADJ -.3518557 :      remove      emplw12
R2ADJ -.3525857 :      remove      emplw16
R2ADJ -.3455388 :      remove      emplw24
R2ADJ -.3512206 :      remove      inc4w1
R2ADJ -.3506228 :      remove      deaw1
R2ADJ -.3514923 :      remove      goferw1
R2ADJ -.3528801 :      remove      fdferw1
R2ADJ -.3492119 :      remove      pillw1
R2ADJ -.3520524 :      remove      smokw1
R2ADJ -.3257612 :      remove      liqw1
R2ADJ -.3530708 :      remove      Havmil

```

```

Stage 1 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil

```

```
> dw1 radtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smok
> w1 liqw1 : R2ADJ -.3530708
```

R2ADJ -.3528814 :	remove	trgovw1
R2ADJ -.3344285 :	remove	ecprw1
R2ADJ -.3415754 :	remove	polprw1
R2ADJ -.3556412 :	remove	airw1
R2ADJ -.3308215 :	remove	radchw1
R2ADJ -.3425442 :	remove	shhousw1
R2ADJ -.3514403 :	remove	trrepw1
R2ADJ -.3548987 :	remove	childw1
R2ADJ -.3341019 :	remove	radtlw1
R2ADJ -.3544399 :	remove	emplw12
R2ADJ -.3551739 :	remove	emplw16
R2ADJ -.3481443 :	remove	emplw24
R2ADJ -.3538324 :	remove	inc4w1
R2ADJ -.3532294 :	remove	deaw1
R2ADJ -.3541066 :	remove	goferw1
R2ADJ -.3554722 :	remove	fdferw1
R2ADJ -.3518145 :	remove	pillw1
R2ADJ -.3546209 :	remove	smokw1
R2ADJ -.3283962 :	remove	liqw1

```
Stage 2 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smokw1 liq
> w1 : R2ADJ -.3556412
```

R2ADJ -.3554802 :	remove	trgovw1
R2ADJ -.3360285 :	remove	ecprw1
R2ADJ -.3404379 :	remove	polprw1
R2ADJ -.3335089 :	remove	radchw1
R2ADJ -.3450956 :	remove	shhousw1
R2ADJ -.3540224 :	remove	trrepw1
R2ADJ -.357427 :	remove	childw1
R2ADJ -.3367749 :	remove	radtlw1
R2ADJ -.3570012 :	remove	emplw12
R2ADJ -.357716 :	remove	emplw16
R2ADJ -.350714 :	remove	emplw24
R2ADJ -.3563724 :	remove	inc4w1
R2ADJ -.3558135 :	remove	deaw1
R2ADJ -.3566875 :	remove	goferw1
R2ADJ -.3580213 :	remove	fdferw1
R2ADJ -.35441 :	remove	pillw1
R2ADJ -.3571838 :	remove	smokw1
R2ADJ -.3310833 :	remove	liqw1

```
Stage 3 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2
> ADJ -.3580213
```

R2ADJ	-.3577648	:	remove	trgovw1
R2ADJ	-.3382354	:	remove	ecprw1
R2ADJ	-.3420855	:	remove	polprw1
R2ADJ	-.3358482	:	remove	radchwl
R2ADJ	-.3467697	:	remove	shhousw1
R2ADJ	-.3564397	:	remove	trrepw1
R2ADJ	-.3598065	:	remove	childw1
R2ADJ	-.3392337	:	remove	radtlw1
R2ADJ	-.3594068	:	remove	emplw12
R2ADJ	-.3601062	:	remove	emplw16
R2ADJ	-.3531821	:	remove	emplw24
R2ADJ	-.358841	:	remove	inc4w1
R2ADJ	-.3582606	:	remove	deaw1
R2ADJ	-.3590183	:	remove	goferw1
R2ADJ	-.3568607	:	remove	pillw1
R2ADJ	-.3595623	:	remove	smokw1
R2ADJ	-.3336697	:	remove	liqw1

Stage 4 reg radfmw1 trgovw1 ecprw1 polprw1 radchwl shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2ADJ -.36
> 01062

R2ADJ	-.3599702	:	remove	trgovw1
R2ADJ	-.3402322	:	remove	ecprw1
R2ADJ	-.3439136	:	remove	polprw1
R2ADJ	-.3382457	:	remove	radchwl
R2ADJ	-.3489493	:	remove	shhousw1
R2ADJ	-.3583634	:	remove	trrepw1
R2ADJ	-.3619457	:	remove	childw1
R2ADJ	-.3415055	:	remove	radtlw1
R2ADJ	-.3618866	:	remove	emplw12
R2ADJ	-.3557371	:	remove	emplw24
R2ADJ	-.3609282	:	remove	inc4w1
R2ADJ	-.3604021	:	remove	deaw1
R2ADJ	-.3611615	:	remove	goferw1
R2ADJ	-.3592742	:	remove	pillw1
R2ADJ	-.3616002	:	remove	smokw1
R2ADJ	-.3359429	:	remove	liqw1

Stage 5 reg radfmw1 trgovw1 ecprw1 polprw1 radchwl shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2ADJ -.3619457

R2ADJ	-.3617531	:	remove	trgovw1
R2ADJ	-.3398592	:	remove	ecprw1
R2ADJ	-.3454628	:	remove	polprw1
R2ADJ	-.3405426	:	remove	radchwl
R2ADJ	-.3503123	:	remove	shhousw1
R2ADJ	-.3603699	:	remove	trrepw1

R2ADJ	-.343028	:	remove	radtlw1
R2ADJ	-.3625688	:	remove	emplw12
R2ADJ	-.3575269	:	remove	emplw24
R2ADJ	-.3629047	:	remove	inc4w1
R2ADJ	-.3622633	:	remove	deaw1
R2ADJ	-.3632152	:	remove	goferw1
R2ADJ	-.3611401	:	remove	pillw1
R2ADJ	-.3633313	:	remove	smokw1
R2ADJ	-.336442	:	remove	liqw1

Stage 6 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 inc4w1 deaw1 goferw1 pillw1 liqw1 : R2ADJ -.3633313

R2ADJ	-.3632193	:	remove	trgovw1
R2ADJ	-.3409167	:	remove	ecprw1
R2ADJ	-.3476168	:	remove	polprw1
R2ADJ	-.3409659	:	remove	radchw1
R2ADJ	-.3512561	:	remove	shhousw1
R2ADJ	-.3613124	:	remove	trrepw1
R2ADJ	-.344519	:	remove	radtlw1
R2ADJ	-.3636567	:	remove	emplw12
R2ADJ	-.3590233	:	remove	emplw24
R2ADJ	-.3646562	:	remove	inc4w1
R2ADJ	-.3638031	:	remove	deaw1
R2ADJ	-.3644115	:	remove	goferw1
R2ADJ	-.3625831	:	remove	pillw1
R2ADJ	-.3372389	:	remove	liqw1

Stage 7 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 deaw1 goferw1 pillw1 liqw1 : R2ADJ -.3646562

R2ADJ	-.3647756	:	remove	trgovw1
R2ADJ	-.3421169	:	remove	ecprw1
R2ADJ	-.3486724	:	remove	polprw1
R2ADJ	-.3417318	:	remove	radchw1
R2ADJ	-.3520708	:	remove	shhousw1
R2ADJ	-.3626868	:	remove	trrepw1
R2ADJ	-.345506	:	remove	radtlw1
R2ADJ	-.3653636	:	remove	emplw12
R2ADJ	-.3603663	:	remove	emplw24
R2ADJ	-.365132	:	remove	deaw1
R2ADJ	-.3657706	:	remove	goferw1
R2ADJ	-.3639029	:	remove	pillw1
R2ADJ	-.3391198	:	remove	liqw1

Stage 8 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 deaw1 pillw1 liqw1 : R2ADJ -.3657706

R2ADJ	-.3659198	:	remove	trgovw1
-------	-----------	---	--------	---------

R2ADJ	-.3444775	:	remove	ecprw1
R2ADJ	-.3488333	:	remove	polprw1
R2ADJ	-.3440703	:	remove	radchw1
R2ADJ	-.3533865	:	remove	shhousw1
R2ADJ	-.362908	:	remove	trrepw1
R2ADJ	-.3467962	:	remove	radtlw1
R2ADJ	-.3665705	:	remove	emplw12
R2ADJ	-.3611837	:	remove	emplw24
R2ADJ	-.3667246	:	remove	deaw1
R2ADJ	-.3656428	:	remove	pillw1
R2ADJ	-.3416547	:	remove	liqw1

Stage 9 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 pillw1 liqw1 : R2ADJ -.3667246

R2ADJ	-.3665181	:	remove	trgovw1
R2ADJ	-.3423042	:	remove	ecprw1
R2ADJ	-.3502967	:	remove	polprw1
R2ADJ	-.3438061	:	remove	radchw1
R2ADJ	-.3526887	:	remove	shhousw1
R2ADJ	-.3644792	:	remove	trrepw1
R2ADJ	-.3475442	:	remove	radtlw1
R2ADJ	-.3672355	:	remove	emplw12
R2ADJ	-.3621985	:	remove	emplw24
R2ADJ	-.3663798	:	remove	pillw1
R2ADJ	-.3425088	:	remove	liqw1

Stage 10 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1
> emplw24 pillw1 liqw1 : R2ADJ -.3672355

R2ADJ	-.3667046	:	remove	trgovw1
R2ADJ	-.3435518	:	remove	ecprw1
R2ADJ	-.3507542	:	remove	polprw1
R2ADJ	-.3408869	:	remove	radchw1
R2ADJ	-.3542677	:	remove	shhousw1
R2ADJ	-.3655213	:	remove	trrepw1
R2ADJ	-.348596	:	remove	radtlw1
R2ADJ	-.3634565	:	remove	emplw24
R2ADJ	-.3665827	:	remove	pillw1
R2ADJ	-.337471	:	remove	liqw1

Final Model

Source	SS	df	MS	Number of obs = 267		
Model	124094.951	10	12409.4951	F(10, 256) = 16.44		
Residual	193264.225	256	754.93838	Prob > F = 0.0000		
Total	317359.176	266	1193.07961	R-squared = 0.3910		
				Adj R-squared = 0.3672		
				Root MSE = 27.476		

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	-.0726681	.0659089	-1.10	0.271	-.2024608	.0571246
ecprw1	.1906801	.0585138	3.26	0.001	.0754505	.3059097
polprw1	.1545495	.0557176	2.77	0.006	.0448262	.2642728
radchwl	.226866	.0663203	3.42	0.001	.0962632	.3574689
shhousw1	.1245758	.049763	2.50	0.013	.0265789	.2225727
trrepw1	-.0853926	.0655654	-1.30	0.194	-.2145089	.0437237
radtlw1	.1891057	.0645954	2.93	0.004	.0618998	.3163117
emplw24	44.22522	27.77752	1.59	0.113	-10.47633	98.92677
pillw1	.6992312	.6216591	1.12	0.262	-.5249858	1.923448
liqw1	5.194267	1.435725	3.62	0.000	2.366931	8.021603
_cons	16.1984	4.753878	3.41	0.001	6.83671	25.56008

```

103 .
104 .
105 . subtitle "***** Wave specific factor analysis for full female radfmw1 in wav
> e 1"

```

```

                                Date and time: 26 Apr 2012   12:43:39
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations

***** Wave specific factor analysis for full female radfmw1 in wave 1

```

```

106 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1   ///
    >  shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16   ///
    >  emplw24 inc4w1 deaw1 goferw1  fdferw1   ///
    >  pillw1 smokw1 liqw1 Havmil if gender==2 , factors(4)
(obs=267)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)
Number of obs   =    267
Retained factors =     4
Number of params =    74

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.97404	1.10363	0.3990	0.3990
Factor2	1.87041	0.48357	0.2509	0.6500
Factor3	1.38685	0.48892	0.1861	0.8360
Factor4	0.89792	0.07590	0.1205	0.9565
Factor5	0.82202	0.49369	0.1103	1.0668
Factor6	0.32834	0.07359	0.0441	1.1108
Factor7	0.25475	0.10557	0.0342	1.1450
Factor8	0.14918	0.05022	0.0200	1.1650
Factor9	0.09896	0.05778	0.0133	1.1783
Factor10	0.04118	0.02513	0.0055	1.1838
Factor11	0.01605	0.03306	0.0022	1.1860
Factor12	-0.01700	0.02807	-0.0023	1.1837
Factor13	-0.04507	0.03391	-0.0060	1.1777
Factor14	-0.07897	0.06813	-0.0106	1.1671
Factor15	-0.14710	0.01501	-0.0197	1.1473
Factor16	-0.16211	0.02167	-0.0217	1.1256
Factor17	-0.18378	0.03302	-0.0247	1.1009
Factor18	-0.21680	0.03202	-0.0291	1.0718
Factor19	-0.24882	0.03782	-0.0334	1.0385
Factor20	-0.28664	.	-0.0385	1.0000

LR test: independent vs. saturated: $\chi^2(190) = 1523.11$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.3323	0.3536	0.4417	-0.4181	0.3946
ecprw1	0.4998	0.2953	-0.0186	0.0405	0.6610
polprw1	0.5091	0.1517	-0.3465	-0.0518	0.5951
airw1	0.4475	0.0532	-0.4280	0.0246	0.6132
radchw1	0.5590	-0.0208	-0.4272	-0.1571	0.4799
shhousw1	0.3065	0.2131	0.1031	0.1191	0.8359
trrepw1	0.3853	0.3268	0.4650	-0.3968	0.3711
childw1	0.4221	-0.3317	0.1866	0.0259	0.6763
radtlw1	0.4765	0.0606	-0.4450	-0.1873	0.5361
emplw12	0.3971	-0.7743	0.1542	-0.1469	0.1974
emplw16	-0.3987	0.7435	-0.1277	0.1672	0.2440
emplw24	-0.0512	0.0207	-0.0441	-0.1040	0.9842
inc4w1	-0.1024	-0.2650	0.0398	0.1206	0.9032
deaw1	0.3772	0.0734	0.0471	0.0760	0.8444
goferw1	0.5841	0.1099	0.2888	0.4072	0.3975
fdferw1	0.5413	0.1361	0.2058	0.4449	0.4482
pillw1	0.2356	0.0166	-0.0079	0.0866	0.9366
smokw1	-0.0379	-0.2149	-0.0589	0.0410	0.9472
liqw1	0.0894	-0.2286	0.1663	0.1749	0.8815
Havmil	-0.1525	0.0910	0.2078	-0.0442	0.9233

```

107 . // 6 factors account for 72% of the common variance
108 . // 10 factors have eigenvalues > 1
109 . rotate, blanks(.36)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: orthogonal varimax (Kaiser off)
Number of obs   =    267
Retained factors =     4
Number of params =    74

```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.99082	0.00756	0.2671	0.2671
Factor2	1.98326	0.30174	0.2661	0.5332
Factor3	1.68152	0.20790	0.2256	0.7588
Factor4	1.47362	.	0.1977	0.9565

```
LR test: independent vs. saturated: chi2(190) = 1523.11 Prob>chi2 = 0.0000
```

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1				0.7723	0.3946
ecprw1	0.3619		0.3660		0.6610
polprw1	0.6067				0.5951
airw1	0.5966				0.6132
radchw1	0.6931				0.4799
shhousw1					0.8359
trrepw1				0.7793	0.3711
childw1		0.4884			0.6763
radtlw1	0.6740				0.5361
emplw12		0.8938			0.1974
emplw16		-0.8659			0.2440
emplw24					0.9842
inc4w1					0.9032
deaw1					0.8444
goferw1			0.7474		0.3975
fdferw1			0.7281		0.4482
pillw1					0.9366
smokw1					0.9472
liqw1					0.8815
Havmil					0.9233

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.6225	0.3899	0.5830	0.3472
Factor2	0.1551	-0.8783	0.1727	0.4180
Factor3	-0.7362	0.2005	0.3162	0.5638
Factor4	-0.2156	-0.1909	0.7282	-0.6219

```

110 .
111 . subtitle "polychoric factor analysis for wave specific female model for wave
> 1"

```

```

Date and time: 26 Apr 2012 12:43:39
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta
data file has 2196 variables
and 363 observations

```

polychoric factor analysis for wave specific female model for wave 1

```

112 . // females wave 1 employment items had missing values and had to be dropped
113 . // so did inclw4
114 . * NB: rotated factors 1 and 2 appear to be important and to be carried over
115 . * NB: factor 3 appears to be trust in government and factor 4 is radiation
116 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 Havmil

```

Polychoric correlation matrix

	trgovw1	ecprw1	polprw1	airw1	radchw1	shhous
> w1						
trgovw1	1					
ecprw1	.28976765	1				
polprw1	.11769542	.39324852	1			
airw1	-.03110185	.38964014	.61155191	1		
radchw1	.04807104	.13368946	.34546464	.28070703	1	
shhousw1	.14579255	.32187862	.12637129	.10505866	.07465651	
> 1						
trrepw1	.70311111	.21805484	.10864435	-.02106691	.083954	.191510
> 08						
childw1	.0994249	.24253968	.16967429	.11130865	.13570408	.133510
> 53						
radtlw1	.06199247	.17456414	.26692097	.2433826	.70169075	.045780
> 54						
deaw1	.14389733	.3267916	.15510015	.20232222	.32609985	.275751
> 74						
goferw1	.1905284	.24525645	.10302541	.05114635	.23267039	.17884
> 07						
fdferw1	.11999816	.25220849	.1889936	.11175147	.21091054	.23122

```

> 54 .18836753 .19876379 .150378
pillw1 .02683362 .05933269 .11837105 .17467144 .09412667 .156538
> 14 .07044596 .05947483 .06115194
smokw1 -.08722501 -.04024545 -.07838914 -.00460031 .0423451 -.002982
> 62 -.13934328 .08369387 .00827047
Havmil .07285151 -.05357487 -.09400788 -.14751933 -.17916609 -.046827
> 61 .08444149 -.05594593 -.20203361

```

```

                deawl      goferw1      fdferw1      pillw1      smokw1      Havm
> il
  deawl          1
goferw1 .42905278          1
fdferw1 .29481839 .70851282          1
pillw1 .14242109 .20430907 .14135815          1
smokw1 -.11304444 -.07571239 -.05920026 -.03800203          1
Havmil -.07057439 -.081723 -.009787 -.03258487 -.06154458
> 1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	3.539530	0.235969	0.235969
2	1.914730	0.127649	0.363617
3	1.398387	0.093226	0.456843
4	1.263647	0.084243	0.541086
5	1.088045	0.072536	0.613623
6	0.955606	0.063707	0.677330
7	0.901334	0.060089	0.737419
8	0.845899	0.056393	0.793812
9	0.825339	0.055023	0.848834
10	0.609043	0.040603	0.889437
11	0.531527	0.035435	0.924872
12	0.347005	0.023134	0.948006
13	0.274768	0.018318	0.966324
14	0.262212	0.017481	0.983805
15	0.242929	0.016195	1.000000

```

117 . matrix define mypolycorlf = r(R)

118 . factormat mypolycorlf, n(363) blanks(.36) factors(4)
      (obs=363)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)
Number of obs   =   363
Retained factors =    4
Number of params =   54

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.98718	1.58966	0.5430	0.5430
Factor2	1.39752	0.49489	0.2540	0.7970
Factor3	0.90264	0.17192	0.1641	0.9611
Factor4	0.73071	0.44319	0.1328	1.0939
Factor5	0.28752	0.12113	0.0523	1.1462
Factor6	0.16639	0.08104	0.0302	1.1764
Factor7	0.08534	0.02273	0.0155	1.1919
Factor8	0.06261	0.05334	0.0114	1.2033
Factor9	0.00928	0.09936	0.0017	1.2050
Factor10	-0.09008	0.02754	-0.0164	1.1886
Factor11	-0.11762	0.05599	-0.0214	1.1673
Factor12	-0.17361	0.05418	-0.0316	1.1357
Factor13	-0.22779	0.01983	-0.0414	1.0943
Factor14	-0.24762	0.02350	-0.0450	1.0493
Factor15	-0.27112	.	-0.0493	1.0000

LR test: independent vs. saturated: chi2(105) = 1490.47 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.3755	0.5262	0.3896		0.3880
ecprw1	0.5527				0.5777
polprw1	0.5195				0.4798
airw1	0.4474	-0.4250			0.4553
radchw1	0.5514	-0.4204		-0.4138	0.3453
shhousw1					0.8361
trrepw1	0.4301	0.5493			0.3739
childw1					0.8645
radtlw1	0.4841	-0.4064		-0.4342	0.4119
deaw1	0.5714				0.6546
goferw1	0.6123		-0.4785		0.3275
fdferw1	0.5684		-0.4287		0.4408
pillw1					0.9315
smokw1					0.9740

Havmil	0.9212
--------	--------

(blanks represent abs(loading)<.36)

119 . rotate, blanks(.36)

Factor analysis/correlation
 Method: principal factors
 Rotation: orthogonal varimax (Kaiser off)

Number of obs = 363
 Retained factors = 4
 Number of params = 54

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.71960	0.25697	0.3126	0.3126
Factor2	1.46263	0.03213	0.2659	0.5784
Factor3	1.43050	0.02517	0.2600	0.8385
Factor4	1.40533	.	0.2555	1.0939

LR test: independent vs. saturated: chi2(105) = 1490.47 Prob>chi2 = 0.0000

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1			0.7776		0.3880
ecprw1		0.5330			0.5777
polprw1		0.6735			0.4798
airw1		0.7044			0.4553
radchw1				0.7744	0.3453
shhousw1					0.8361
trrepw1			0.7720		0.3739
childw1					0.8645
radtlw1				0.7481	0.4119
deaw1	0.4528				0.6546
goferw1	0.7963				0.3275
fdferw1	0.7322				0.4408
pillw1					0.9315
smokw1					0.9740
Havmil					0.9212

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.6120	0.5126	0.3868	0.4616
Factor2	0.2996	-0.3893	0.6846	-0.5385
Factor3	-0.6991	0.4695	0.5375	-0.0450
Factor4	0.2170	0.6044	-0.3047	-0.7035

```
120 .
121 .
122 . set more off
```

```
123 . subtitle "***** Wave specific factor analysis for females in wave 2"
```

```

                                Date and time: 26 Apr 2012    12:43:42
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations
```

```
***** Wave specific factor analysis for females in wave 2
```

```
124 . factor illw2 emplw23 emplw12 emplw13 emplw16 emplw23 emplw24 movew2 mhlthw2
> ///
> goferw2 fdferw1 fdferw2 liqw2 Havmil if gender==2, factors(3) blanks(.34
> )
(obs=362)
(collinear variables specified)
```

Factor analysis/correlation	Number of obs	=	362
Method: principal factors	Retained factors	=	3
Rotation: (unrotated)	Number of params	=	39

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.34826	0.81555	0.4046	0.4046
Factor2	1.53271	0.12316	0.2641	0.6687
Factor3	1.40955	0.74697	0.2429	0.9116
Factor4	0.66258	0.37799	0.1142	1.0258
Factor5	0.28458	0.02976	0.0490	1.0748
Factor6	0.25482	0.18461	0.0439	1.1187
Factor7	0.07021	0.06326	0.0121	1.1308
Factor8	0.00695	0.00695	0.0012	1.1320
Factor9	-0.00000	0.08498	-0.0000	1.1320
Factor10	-0.08498	0.04116	-0.0146	1.1174
Factor11	-0.12614	0.02044	-0.0217	1.0956
Factor12	-0.14658	0.03640	-0.0253	1.0704
Factor13	-0.18298	0.04254	-0.0315	1.0389
Factor14	-0.22552	.	-0.0389	1.0000

LR test: independent vs. saturated: $\chi^2(91) =$. Prob> $\chi^2 =$.

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
illw2				0.9497
emplw23	0.8763		0.4655	0.0033
emplw12	-0.6065		0.6826	0.1570
emplw13				0.9357
emplw16	0.5296		-0.6557	0.2846
emplw23	0.8763		0.4655	0.0033
emplw24				0.9946
movew2				0.9378
mhlthw2				0.9448
goferw2		0.6804		0.5192
fdferw1		0.5720		0.6670
fdferw2		0.7629		0.3617
liqw2				0.9926
Havmil				0.9580

(blanks represent $\text{abs}(\text{loading}) < .34$)

125 . rotate, blanks(.36) varimax

Factor analysis/correlation
 Method: principal factors
 Rotation: orthogonal varimax (Kaiser off)

Number of obs = 362
 Retained factors = 3
 Number of params = 39

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.05927	0.38137	0.3548	0.3548
Factor2	1.67790	0.12454	0.2891	0.6440
Factor3	1.55335	.	0.2677	0.9116

LR test: independent vs. saturated: chi2(91) = . Prob>chi2 = .

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
illw2				0.9497
emplw23	0.9942			0.0033
emplw12		-0.9064		0.1570
emplw13				0.9357
emplw16		0.8403		0.2846
emplw23	0.9942			0.0033
emplw24				0.9946
movew2				0.9378
mhlthw2				0.9448
goferw2			0.6924	0.5192
fdferw1			0.5691	0.6670
fdferw2			0.7910	0.3617
liqw2				0.9926
Havmil				0.9580

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3
Factor1	0.8307	0.5334	0.1592
Factor2	-0.1248	-0.1004	0.9871
Factor3	0.5425	-0.8399	-0.0168

```

126 .
127 . subtitle "Polychoric correlation input for wave specific female model for wa
> ve 2"

```

```

Date and time: 26 Apr 2012 12:43:43
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta
data file has 2196 variables
and 363 observations

```

Polychoric correlation input for wave specific female model for wave 2

```

128 . polychoricpca illw2 emplw13 movew2 mhlthw2 ///
> goferw2 fdferw1 fdferw2 Havmil

```

Polychoric correlation matrix

	illw2	emplw13	movew2	mhlthw2	goferw2	fdferw
> 1	fdferw2	Havmil				
illw2	1					
emplw13	-.41047238	1				
movew2	.16521341	.22911281	1			
mhlthw2	-.14863103	-.06955696	-.0673946	1		
goferw2	.1036378	.01931585	.14706392	-.08608172	1	
fdferw1	.16726732	.01716361	-.03468109	-.12707197	.37778893	
> 1						
fdferw2	.10917916	.10477369	.11519572	-.14935725	.63518825	.5022368
> 4	1					
Havmil	.02803857	-.02409205	.19895873	.04405695	.14990619	-.0177657
> 4	.14889742	1				

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.174051	0.271756	0.271756
2	1.426549	0.178319	0.450075
3	1.210132	0.151267	0.601342
4	1.063251	0.132906	0.734248
5	0.796265	0.099533	0.833781
6	0.602656	0.075332	0.909113
7	0.399082	0.049885	0.958998
8	0.328014	0.041002	1.000000

129 . matrix define mypolychor2f= r(R)

130 . factormat mypolychor2f, n(363) blanks(.36) factors(2)
(obs=363)

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	15

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.56838	0.84802	0.7300	0.7300
Factor2	0.72036	0.31486	0.3353	1.0653
Factor3	0.40550	0.20905	0.1887	1.2540
Factor4	0.19646	0.27758	0.0914	1.3454
Factor5	-0.08113	0.02295	-0.0378	1.3077
Factor6	-0.10408	0.10979	-0.0484	1.2592
Factor7	-0.21387	0.12924	-0.0995	1.1597
Factor8	-0.34310	.	-0.1597	1.0000

LR test: independent vs. saturated: chi2(28) = 497.41 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
illw2		-0.5437	0.6502
emplw13		0.6221	0.6105
movew2			0.9401
mhlthw2			0.9617
goferw2	0.6990		0.5094
fdferw1	0.5577		0.6850
fdferw2	0.7802		0.3830
Havmil			0.9714

(blanks represent abs(loading)<.36)

131 . rotate, blanks(.36)

Factor analysis/correlation
 Method: principal factors
 Rotation: orthogonal varimax (Kaiser off)

Number of obs = 363
 Retained factors = 2
 Number of params = 15

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.56168	0.83461	0.7269	0.7269
Factor2	0.72707	.	0.3384	1.0653

LR test: independent vs. saturated: $\chi^2(28) = 497.41$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
illw2		-0.5622	0.6502
emplw13		0.6152	0.6105
movew2			0.9401
mhlthw2			0.9617
goferw2	0.7002		0.5094
fdferw1	0.5498		0.6850
fdferw2	0.7852		0.3830
Havmil			0.9714

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.9960	-0.0889
Factor2	0.0889	0.9960

```

132 .
133 . // we observe that factor 1 consisting of the fear of going out and eating
    > ///
134 . // contaminated food persists
135 .
136 .
137 . set more off

138 . subtitle "***** Wave specific factor analysis for females in wave 3"

```

```

                                Date and time: 26 Apr 2012    12:43:45
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations

```

******* Wave specific factor analysis for females in wave 3**

```

139 . factor dauthw3 healthf HP2vacatn cataw3 ncontw3 pillw3 WHPel WHPpa ///
    > HP2probsoc radchw3 Havmil carcin if gender==2 , factors(2)
    (obs=363)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)
                                Number of obs    =    363
                                Retained factors =     2
                                Number of params =    23

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.31959	0.64569	0.5913	0.5913
Factor2	1.67391	1.36869	0.4267	1.0181
Factor3	0.30522	0.10054	0.0778	1.0959
Factor4	0.20468	0.08986	0.0522	1.1480
Factor5	0.11482	0.08252	0.0293	1.1773
Factor6	0.03230	0.03712	0.0082	1.1855
Factor7	-0.00482	0.03093	-0.0012	1.1843
Factor8	-0.03574	0.05130	-0.0091	1.1752
Factor9	-0.08705	0.10350	-0.0222	1.1530
Factor10	-0.19055	0.01127	-0.0486	1.1044
Factor11	-0.20181	0.00606	-0.0514	1.0530
Factor12	-0.20788	.	-0.0530	1.0000

LR test: independent vs. saturated: $\chi^2(66) = 1462.14$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
dauthw3	0.0095	-0.0083	0.9998
healthef	0.7136	-0.6558	0.0607
HP2vacatn	0.4720	0.4593	0.5663
cataw3	0.0102	0.0316	0.9989
ncontw3	0.2744	0.1810	0.8920
pillw3	0.1061	0.1646	0.9616
WHPel	0.5404	0.2964	0.6201
WHPpa	0.5713	0.4217	0.4958
HP2probsoc	0.6001	0.4526	0.4350
radchw3	0.2361	-0.1210	0.9296
Havmil	-0.0867	-0.0933	0.9838
carcin	0.6775	-0.6914	0.0629

140 . rotate, blanks(.35)

Factor analysis/correlation	Number of obs =	363
Method: principal factors	Retained factors =	2
Rotation: orthogonal varimax (Kaiser off)	Number of params =	23

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.01855	0.04359	0.5146	0.5146
Factor2	1.97495	.	0.5035	1.0181

LR test: independent vs. saturated: $\chi^2(66) = 1462.14$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
dauthw3			0.9998
healthef		0.9664	0.0607
HP2vacatn	0.6585		0.5663
cataw3			0.9989
ncontw3			0.8920
pillw3			0.9616
WHPel	0.5972		0.6201
WHPpa	0.7053		0.4958
HP2probsoc	0.7475		0.4350

radchw3		0.9296
Havmil		0.9838
carcin	0.9678	0.0629

(blanks represent $\text{abs}(\text{loading}) < .35$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.7306	
Factor2	0.6828	-0.7306

```
141 .
142 . subtitle "Wave specific wave 3 female factor analysis with polychoric corr m
> atrix input"
```

```

Date and time: 26 Apr 2012    12:43:45
Stata version: 12.1
Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta

data file has 2196 variables
and 363 observations
```

Wave specific wave 3 female factor analysis with polychoric corr matrix input

```
143 .
144 . polychoricpca dauthw3 healthef ncontw3 pillw3 WHPel WHPpa ///
> HP2probsoc radchw3 Havmil carcin
```

Polychoric correlation matrix

```

                dauthw3    healthef    ncontw3    pillw3    WHPel    W
> HPpa  HP2probsoc    radchw3    Havmil
    dauthw3            1
    healthef    -.00685222            1
    ncontw3    .14558024    .1100701            1
    pillw3    .01058291    -.03208855    .01358505            1
    WHPel    .0219868    .21200044    .34722289    .11578484            1
    WHPpa    -.04112356    .11672315    .26290005    .11999771    .55936785
> 1
HP2probsoc    -.06231448    .20908656    .56721104    .17210228    .56659176    .6421
> 5003            1
    radchw3    .04344036    .25197546    -.09173598    .02002248    .02533179    .1322
> 6372    .16717976            1
    Havmil    -.12206668    .00061699    -.15055384    -.04453307    -.23585829    -.0739
> 3629    -.29394149    -.0047083            1
    carcin    .02021761    .95629774    .08535987    -.04050288    .18285751    .0870
> 9541    .13883047    .24115275    .01161742

                carcin
    carcin            1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.843373	0.284337	0.284337
2	1.875285	0.187529	0.471866
3	1.144264	0.114426	0.586292
4	1.026373	0.102637	0.688930
5	0.909296	0.090930	0.779859
6	0.866983	0.086698	0.866557
7	0.680829	0.068083	0.934640
8	0.406160	0.040616	0.975256
9	0.207353	0.020735	0.995992
10	0.040084	0.004008	1.000000

```
145 . matrix define mypolychor3f= r(R)
```

```
146 . factormat mypolychor3f, n(363) blanks(.36) factors(2)
      (obs=363)
```

```
Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)

Number of obs   =   363
Retained factors =    2
Number of params =   19
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.47168	0.84132	0.5649	0.5649
Factor2	1.63036	1.22958	0.3726	0.9376
Factor3	0.40079	0.20462	0.0916	1.0292
Factor4	0.19617	0.09777	0.0448	1.0740
Factor5	0.09840	0.03340	0.0225	1.0965
Factor6	0.06500	0.05677	0.0149	1.1114
Factor7	0.00823	0.05057	0.0019	1.1132
Factor8	-0.04234	0.13043	-0.0097	1.1036
Factor9	-0.17277	0.10754	-0.0395	1.0641
Factor10	-0.28031	.	-0.0641	1.0000

```
LR test: independent vs. saturated:  chi2(45) = 1607.15 Prob>chi2 = 0.0000
```

```
Factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Factor2	Uniqueness
dauthw3			0.9993
healthef	0.6964	0.6751	0.0592
ncontw3	0.4557		0.6853
pillw3			0.9700
WHPel	0.6040		0.5329
WHPpa	0.5766	-0.3900	0.5155
HP2probsoc	0.7431	-0.4665	0.2301
radchw3			0.9271
Havmil			0.9145
carcin	0.6547	0.7122	0.0641

```
(blanks represent abs(loading)<.36)
```

147 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	2
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	19

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.12814	0.15423	0.4864	0.4864
Factor2	1.97390	.	0.4512	0.9376

LR test: independent vs. saturated: $\chi^2(45) = 1607.15$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
dauthw3			0.9993
healthef		0.9643	0.0592
ncontw3	0.5596		0.6853
pillw3			0.9700
WHPel	0.6690		0.5329
WHPpa	0.6927		0.5155
HP2probsoc	0.8697		0.2301
radchw3			0.9271
Havmil			0.9145
carcin		0.9662	0.0641

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.7692	0.6390
Factor2	-0.6390	0.7692

```
152 .
153 .
154 . di c(filename)
      chwide22apr2012females.dta
155 . tab gender
```

respondent's gender	Freq.	Percent	Cum.
2. female	363	100.00	100.00
Total	363	100.00	

```
156 .
157 . di "Female sample size = ",_N
    Female sample size = 363

158 .
159 . title(Female respondents - Cumulative wave dynamic factor analysis)
```

```
*****  
> *  
*****  
> *  
*****  
> *  
*****  
> *  
*****  
(Female  
> *  
*****  
respondents  
> *  
*****  
-  
> *  
*****  
Cumulative  
> *  
*****  
wave  
> *  
*****  
dynamic  
> *  
*****  
factor
```

```

> *
*****                                analysis)                                *****
> *
*****                                *****
> *
*****                                *****
> *
*****                                26 Apr 2012    12:43:48    *****
> *
*****
> *
*****
> *

```

```
160 . set more off
```

```
161 . subtitle "***** cumulative waves for females in wave 1 "
```

```

                                Date and time: 26 Apr 2012    12:43:48
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations

```

```
***** cumulative waves for females in wave 1
```

```

162 . des trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16 ///
> emplw24 inc4w1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 liqw1 Havmil

```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
emplw12	byte	%8.0g		emplw1==1. full time
emplw16	byte	%8.0g		emplw1==5. unemployed
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
pillw1	byte	%8.0g		number of pills for pain per week in 1976-1986
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
liqw1	byte	%8.0g		number of spirits per week in 1976-1986
Havmil	float	%9.0g		Distance from Chornobyl in miles

```

163 .
164 . vselect radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1   ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16   ///
>   emplw24 inc4w1 deaw1 goferw1 fdferw1   ///
>   pillw1 smokw1 liqw1 Havmil, backward r2adj
96 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smok
> w1 liqw1 Havmil : R2ADJ -.3504741

```

R2ADJ -.3503094 :	remove	trgovw1
R2ADJ -.3317881 :	remove	ecprw1
R2ADJ -.3389534 :	remove	polprw1
R2ADJ -.3530603 :	remove	airw1
R2ADJ -.3282133 :	remove	radchw1
R2ADJ -.3400659 :	remove	shhousw1
R2ADJ -.3489049 :	remove	trrepw1
R2ADJ -.3523093 :	remove	childw1
R2ADJ -.3319358 :	remove	radtlw1
R2ADJ -.3518557 :	remove	emplw12
R2ADJ -.3525857 :	remove	emplw16
R2ADJ -.3455388 :	remove	emplw24
R2ADJ -.3512206 :	remove	inc4w1
R2ADJ -.3506228 :	remove	deaw1
R2ADJ -.3514923 :	remove	goferw1
R2ADJ -.3528801 :	remove	fdferw1
R2ADJ -.3492119 :	remove	pillw1
R2ADJ -.3520524 :	remove	smokw1
R2ADJ -.3257612 :	remove	liqw1
R2ADJ -.3530708 :	remove	Havmil

```

Stage 1 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smok
> w1 liqw1 : R2ADJ -.3530708

```

R2ADJ -.3528814 :	remove	trgovw1
R2ADJ -.3344285 :	remove	ecprw1
R2ADJ -.3415754 :	remove	polprw1
R2ADJ -.3556412 :	remove	airw1
R2ADJ -.3308215 :	remove	radchw1
R2ADJ -.3425442 :	remove	shhousw1
R2ADJ -.3514403 :	remove	trrepw1
R2ADJ -.3548987 :	remove	childw1
R2ADJ -.3341019 :	remove	radtlw1

R2ADJ	-.3544399	:	remove	emplw12
R2ADJ	-.3551739	:	remove	emplw16
R2ADJ	-.3481443	:	remove	emplw24
R2ADJ	-.3538324	:	remove	inc4w1
R2ADJ	-.3532294	:	remove	deaw1
R2ADJ	-.3541066	:	remove	goferw1
R2ADJ	-.3554722	:	remove	fdferw1
R2ADJ	-.3518145	:	remove	pillw1
R2ADJ	-.3546209	:	remove	smokw1
R2ADJ	-.3283962	:	remove	liqw1

```

Stage 2 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smokw1 liq
> w1 : R2ADJ -.3556412

```

R2ADJ	-.3554802	:	remove	trgovw1
R2ADJ	-.3360285	:	remove	ecprw1
R2ADJ	-.3404379	:	remove	polprw1
R2ADJ	-.3335089	:	remove	radchw1
R2ADJ	-.3450956	:	remove	shhousw1
R2ADJ	-.3540224	:	remove	trrepw1
R2ADJ	-.357427	:	remove	childw1
R2ADJ	-.3367749	:	remove	radtlw1
R2ADJ	-.3570012	:	remove	emplw12
R2ADJ	-.357716	:	remove	emplw16
R2ADJ	-.350714	:	remove	emplw24
R2ADJ	-.3563724	:	remove	inc4w1
R2ADJ	-.3558135	:	remove	deaw1
R2ADJ	-.3566875	:	remove	goferw1
R2ADJ	-.3580213	:	remove	fdferw1
R2ADJ	-.35441	:	remove	pillw1
R2ADJ	-.3571838	:	remove	smokw1
R2ADJ	-.3310833	:	remove	liqw1

```

Stage 3 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2
> ADJ -.3580213

```

R2ADJ	-.3577648	:	remove	trgovw1
R2ADJ	-.3382354	:	remove	ecprw1
R2ADJ	-.3420855	:	remove	polprw1
R2ADJ	-.3358482	:	remove	radchw1
R2ADJ	-.3467697	:	remove	shhousw1
R2ADJ	-.3564397	:	remove	trrepw1
R2ADJ	-.3598065	:	remove	childw1
R2ADJ	-.3392337	:	remove	radtlw1
R2ADJ	-.3594068	:	remove	emplw12
R2ADJ	-.3601062	:	remove	emplw16
R2ADJ	-.3531821	:	remove	emplw24

R2ADJ	-.358841	:	remove	inc4w1
R2ADJ	-.3582606	:	remove	deaw1
R2ADJ	-.3590183	:	remove	goferw1
R2ADJ	-.3568607	:	remove	pillw1
R2ADJ	-.3595623	:	remove	smokw1
R2ADJ	-.3336697	:	remove	liqw1

```

Stage 4 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2ADJ -.36
> 01062

```

R2ADJ	-.3599702	:	remove	trgovw1
R2ADJ	-.3402322	:	remove	ecprw1
R2ADJ	-.3439136	:	remove	polprw1
R2ADJ	-.3382457	:	remove	radchw1
R2ADJ	-.3489493	:	remove	shhousw1
R2ADJ	-.3583634	:	remove	trrepw1
R2ADJ	-.3619457	:	remove	childw1
R2ADJ	-.3415055	:	remove	radtlw1
R2ADJ	-.3618866	:	remove	emplw12
R2ADJ	-.3557371	:	remove	emplw24
R2ADJ	-.3609282	:	remove	inc4w1
R2ADJ	-.3604021	:	remove	deaw1
R2ADJ	-.3611615	:	remove	goferw1
R2ADJ	-.3592742	:	remove	pillw1
R2ADJ	-.3616002	:	remove	smokw1
R2ADJ	-.3359429	:	remove	liqw1

```

Stage 5 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2ADJ -.3619457

```

R2ADJ	-.3617531	:	remove	trgovw1
R2ADJ	-.3398592	:	remove	ecprw1
R2ADJ	-.3454628	:	remove	polprw1
R2ADJ	-.3405426	:	remove	radchw1
R2ADJ	-.3503123	:	remove	shhousw1
R2ADJ	-.3603699	:	remove	trrepw1
R2ADJ	-.343028	:	remove	radtlw1
R2ADJ	-.3625688	:	remove	emplw12
R2ADJ	-.3575269	:	remove	emplw24
R2ADJ	-.3629047	:	remove	inc4w1
R2ADJ	-.3622633	:	remove	deaw1
R2ADJ	-.3632152	:	remove	goferw1
R2ADJ	-.3611401	:	remove	pillw1
R2ADJ	-.3633313	:	remove	smokw1
R2ADJ	-.336442	:	remove	liqw1

```

Stage 6 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 inc4w1 deaw1 goferw1 pillw1 liqw1 : R2ADJ -.3633313

```

R2ADJ	-.3632193	:	remove	trgovw1
R2ADJ	-.3409167	:	remove	ecprw1
R2ADJ	-.3476168	:	remove	polprw1
R2ADJ	-.3409659	:	remove	radchw1
R2ADJ	-.3512561	:	remove	shhousw1
R2ADJ	-.3613124	:	remove	trrepw1
R2ADJ	-.344519	:	remove	radtlw1
R2ADJ	-.3636567	:	remove	emplw12
R2ADJ	-.3590233	:	remove	emplw24
R2ADJ	-.3646562	:	remove	inc4w1
R2ADJ	-.3638031	:	remove	deaw1
R2ADJ	-.3644115	:	remove	goferw1
R2ADJ	-.3625831	:	remove	pillw1
R2ADJ	-.3372389	:	remove	liqw1

Stage 7 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 deaw1 goferw1 pillw1 liqw1 : R2ADJ -.3646562

R2ADJ	-.3647756	:	remove	trgovw1
R2ADJ	-.3421169	:	remove	ecprw1
R2ADJ	-.3486724	:	remove	polprw1
R2ADJ	-.3417318	:	remove	radchw1
R2ADJ	-.3520708	:	remove	shhousw1
R2ADJ	-.3626868	:	remove	trrepw1
R2ADJ	-.345506	:	remove	radtlw1
R2ADJ	-.3653636	:	remove	emplw12
R2ADJ	-.3603663	:	remove	emplw24
R2ADJ	-.365132	:	remove	deaw1
R2ADJ	-.3657706	:	remove	goferw1
R2ADJ	-.3639029	:	remove	pillw1
R2ADJ	-.3391198	:	remove	liqw1

Stage 8 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 deaw1 pillw1 liqw1 : R2ADJ -.3657706

R2ADJ	-.3659198	:	remove	trgovw1
R2ADJ	-.3444775	:	remove	ecprw1
R2ADJ	-.3488333	:	remove	polprw1
R2ADJ	-.3440703	:	remove	radchw1
R2ADJ	-.3533865	:	remove	shhousw1
R2ADJ	-.362908	:	remove	trrepw1
R2ADJ	-.3467962	:	remove	radtlw1
R2ADJ	-.3665705	:	remove	emplw12
R2ADJ	-.3611837	:	remove	emplw24
R2ADJ	-.3667246	:	remove	deaw1
R2ADJ	-.3656428	:	remove	pillw1
R2ADJ	-.3416547	:	remove	liqw1

```
Stage 9 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 pillw1 liqw1 : R2ADJ -.3667246
```

```
R2ADJ -.3665181 :      remove    trgovw1
R2ADJ -.3423042 :      remove    ecprw1
R2ADJ -.3502967 :      remove    polprw1
R2ADJ -.3438061 :      remove    radchw1
R2ADJ -.3526887 :      remove    shhousw1
R2ADJ -.3644792 :      remove    trrepw1
R2ADJ -.3475442 :      remove    radtlw1
R2ADJ -.3672355 :      remove    emplw12
R2ADJ -.3621985 :      remove    emplw24
R2ADJ -.3663798 :      remove    pillw1
R2ADJ -.3425088 :      remove    liqw1
```

```
Stage 10 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1
> emplw24 pillw1 liqw1 : R2ADJ -.3672355
```

```
R2ADJ -.3667046 :      remove    trgovw1
R2ADJ -.3435518 :      remove    ecprw1
R2ADJ -.3507542 :      remove    polprw1
R2ADJ -.3408869 :      remove    radchw1
R2ADJ -.3542677 :      remove    shhousw1
R2ADJ -.3655213 :      remove    trrepw1
R2ADJ -.348596  :      remove    radtlw1
R2ADJ -.3634565 :      remove    emplw24
R2ADJ -.3665827 :      remove    pillw1
R2ADJ -.337471  :      remove    liqw1
```

Final Model

Source	SS	df	MS
Model	124094.951	10	12409.4951
Residual	193264.225	256	754.93838
Total	317359.176	266	1193.07961

```
Number of obs =      267
F( 10, 256) =    16.44
Prob > F      =    0.0000
R-squared     =    0.3910
Adj R-squared =    0.3672
Root MSE     =    27.476
```

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	-.0726681	.0659089	-1.10	0.271	-.2024608	.0571246
ecprw1	.1906801	.0585138	3.26	0.001	.0754505	.3059097
polprw1	.1545495	.0557176	2.77	0.006	.0448262	.2642728
radchw1	.226866	.0663203	3.42	0.001	.0962632	.3574689
shhousw1	.1245758	.049763	2.50	0.013	.0265789	.2225727
trrepw1	-.0853926	.0655654	-1.30	0.194	-.2145089	.0437237
radtlw1	.1891057	.0645954	2.93	0.004	.0618998	.3163117
emplw24	44.22522	27.77752	1.59	0.113	-10.47633	98.92677
pillw1	.6992312	.6216591	1.12	0.262	-.5249858	1.923448
liqw1	5.194267	1.435725	3.62	0.000	2.366931	8.021603
_cons	16.1984	4.753878	3.41	0.001	6.83671	25.56008

```

165 .
166 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1  ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
>   emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
>   pillw1 smokw1 liqw1 Havmil if gender==2 , factors(4)
(obs=267)

```

Factor analysis/correlation	Number of obs	=	267
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	74

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.97404	1.10363	0.3990	0.3990
Factor2	1.87041	0.48357	0.2509	0.6500
Factor3	1.38685	0.48892	0.1861	0.8360
Factor4	0.89792	0.07590	0.1205	0.9565
Factor5	0.82202	0.49369	0.1103	1.0668
Factor6	0.32834	0.07359	0.0441	1.1108
Factor7	0.25475	0.10557	0.0342	1.1450
Factor8	0.14918	0.05022	0.0200	1.1650
Factor9	0.09896	0.05778	0.0133	1.1783
Factor10	0.04118	0.02513	0.0055	1.1838
Factor11	0.01605	0.03306	0.0022	1.1860
Factor12	-0.01700	0.02807	-0.0023	1.1837
Factor13	-0.04507	0.03391	-0.0060	1.1777
Factor14	-0.07897	0.06813	-0.0106	1.1671
Factor15	-0.14710	0.01501	-0.0197	1.1473
Factor16	-0.16211	0.02167	-0.0217	1.1256
Factor17	-0.18378	0.03302	-0.0247	1.1009
Factor18	-0.21680	0.03202	-0.0291	1.0718
Factor19	-0.24882	0.03782	-0.0334	1.0385

Factor20	-0.28664	.	-0.0385	1.0000
----------	-----------------	---	----------------	---------------

LR test: independent vs. saturated: $\chi^2(190) = 1523.11$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.3323	0.3536	0.4417	-0.4181	0.3946
ecprw1	0.4998	0.2953	-0.0186	0.0405	0.6610
polprw1	0.5091	0.1517	-0.3465	-0.0518	0.5951
airw1	0.4475	0.0532	-0.4280	0.0246	0.6132
radchw1	0.5590	-0.0208	-0.4272	-0.1571	0.4799
shhousw1	0.3065	0.2131	0.1031	0.1191	0.8359
trrepw1	0.3853	0.3268	0.4650	-0.3968	0.3711
childw1	0.4221	-0.3317	0.1866	0.0259	0.6763
radtlw1	0.4765	0.0606	-0.4450	-0.1873	0.5361
emplw12	0.3971	-0.7743	0.1542	-0.1469	0.1974
emplw16	-0.3987	0.7435	-0.1277	0.1672	0.2440
emplw24	-0.0512	0.0207	-0.0441	-0.1040	0.9842
inc4w1	-0.1024	-0.2650	0.0398	0.1206	0.9032
deaw1	0.3772	0.0734	0.0471	0.0760	0.8444
goferw1	0.5841	0.1099	0.2888	0.4072	0.3975
fdferw1	0.5413	0.1361	0.2058	0.4449	0.4482
pillw1	0.2356	0.0166	-0.0079	0.0866	0.9366
smokw1	-0.0379	-0.2149	-0.0589	0.0410	0.9472
liqw1	0.0894	-0.2286	0.1663	0.1749	0.8815
Havmil	-0.1525	0.0910	0.2078	-0.0442	0.9233

167 . // 6 factors account for 72% of the common variance

168 . // 10 factors have eigenvalues > 1

169 . rotate, blanks(.34)

Factor analysis/correlation	Number of obs	=	267
Method: principal factors	Retained factors	=	4
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	74

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.99082	0.00756	0.2671	0.2671
Factor2	1.98326	0.30174	0.2661	0.5332
Factor3	1.68152	0.20790	0.2256	0.7588
Factor4	1.47362	.	0.1977	0.9565

LR test: independent vs. saturated: $\chi^2(190) = 1523.11$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1				0.7723	0.3946
ecprw1	0.3619		0.3660		0.6610
polprw1	0.6067				0.5951
airw1	0.5966				0.6132
radchw1	0.6931				0.4799
shhousw1					0.8359
trrepw1				0.7793	0.3711
childw1		0.4884			0.6763
radtlw1	0.6740				0.5361
emplw12		0.8938			0.1974
emplw16		-0.8659			0.2440
emplw24					0.9842
inc4w1					0.9032
deaw1					0.8444
goferw1			0.7474		0.3975
fdferw1			0.7281		0.4482
pillw1					0.9366
smokw1					0.9472
liqw1					0.8815
Havmil					0.9233

(blanks represent $\text{abs}(\text{loading}) < .34$)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.6225	0.3899	0.5830	0.3472
Factor2	0.1551	-0.8783	0.1727	0.4180
Factor3	-0.7362	0.2005	0.3162	0.5638
Factor4	-0.2156	-0.1909	0.7282	-0.6219

```

170 .
171 . // items are deleted if they exhibit missing values
172 . polychoricpca trgoww1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 Havmil

```

Polychoric correlation matrix

```

> w1      trgoww1      ecprw1      polprw1      airw1      radchw1      shhous
trrepw1      childw1      radtlw1
trgoww1      1
ecprw1      .28976765      1
polprw1      .11769542      .39324852      1
airw1      -.03110185      .38964014      .61155191      1
radchw1      .04807104      .13368946      .34546464      .28070703      1
shhousw1      .14579255      .32187862      .12637129      .10505866      .07465651
> 1
trrepw1      .70311111      .21805484      .10864435      -.02106691      .083954      .191510
> 08      1
childw1      .0994249      .24253968      .16967429      .11130865      .13570408      .133510
> 53      .13243894      1
radtlw1      .06199247      .17456414      .26692097      .2433826      .70169075      .045780
> 54      .06696507      .09322908      1
deaw1      .14389733      .3267916      .15510015      .20232222      .32609985      .275751
> 74      .26628379      .2922091      .24517037
goferw1      .1905284      .24525645      .10302541      .05114635      .23267039      .17884
> 07      .25275289      .26198774      .1654837
fdferw1      .11999816      .25220849      .1889936      .11175147      .21091054      .23122
> 54      .18836753      .19876379      .150378
pillw1      .02683362      .05933269      .11837105      .17467144      .09412667      .156538
> 14      .07044596      .05947483      .06115194
smokw1      -.08722501      -.04024545      -.07838914      -.00460031      .0423451      -.002982
> 62      -.13934328      .08369387      .00827047
Havmil      .07285151      -.05357487      -.09400788      -.14751933      -.17916609      -.046827
> 61      .08444149      -.05594593      -.20203361

> il      deaw1      goferw1      fdferw1      pillw1      smokw1      Havm
deaw1      1
goferw1      .42905278      1
fdferw1      .29481839      .70851282      1
pillw1      .14242109      .20430907      .14135815      1
smokw1      -.11304444      -.07571239      -.05920026      -.03800203      1
Havmil      -.07057439      -.081723      -.009787      -.03258487      -.06154458
> 1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	3.539530	0.235969	0.235969
2	1.914730	0.127649	0.363617
3	1.398387	0.093226	0.456843
4	1.263647	0.084243	0.541086
5	1.088045	0.072536	0.613623
6	0.955606	0.063707	0.677330
7	0.901334	0.060089	0.737419
8	0.845899	0.056393	0.793812
9	0.825339	0.055023	0.848834
10	0.609043	0.040603	0.889437
11	0.531527	0.035435	0.924872
12	0.347005	0.023134	0.948006
13	0.274768	0.018318	0.966324
14	0.262212	0.017481	0.983805
15	0.242929	0.016195	1.000000

```
173 . matrix define mypolycor1f = r(R)
```

```
174 . factormat mypolycor1f, n(363) blanks(.36) factors(4)
      (obs=363)
```

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	54

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.98718	1.58966	0.5430	0.5430
Factor2	1.39752	0.49489	0.2540	0.7970
Factor3	0.90264	0.17192	0.1641	0.9611
Factor4	0.73071	0.44319	0.1328	1.0939
Factor5	0.28752	0.12113	0.0523	1.1462
Factor6	0.16639	0.08104	0.0302	1.1764
Factor7	0.08534	0.02273	0.0155	1.1919
Factor8	0.06261	0.05334	0.0114	1.2033
Factor9	0.00928	0.09936	0.0017	1.2050
Factor10	-0.09008	0.02754	-0.0164	1.1886
Factor11	-0.11762	0.05599	-0.0214	1.1673
Factor12	-0.17361	0.05418	-0.0316	1.1357
Factor13	-0.22779	0.01983	-0.0414	1.0943
Factor14	-0.24762	0.02350	-0.0450	1.0493
Factor15	-0.27112	.	-0.0493	1.0000

LR test: independent vs. saturated: chi2(105) = 1490.47 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.3755	0.5262	0.3896		0.3880
ecprw1	0.5527				0.5777
polprw1	0.5195				0.4798
airw1	0.4474	-0.4250			0.4553
radchw1	0.5514	-0.4204		-0.4138	0.3453
shhousw1					0.8361
trrepw1	0.4301	0.5493			0.3739
childw1					0.8645
radtlw1	0.4841	-0.4064		-0.4342	0.4119
deaw1	0.5714				0.6546
goferw1	0.6123		-0.4785		0.3275
fdferw1	0.5684		-0.4287		0.4408
pillw1					0.9315
smokw1					0.9740
Havmil					0.9212

(blanks represent $\text{abs}(\text{loading}) < .36$)

175 .

176 .

177 . subtitle " cumulative waves for females in waves 1 and 2 "

```

                                Date and time: 26 Apr 2012   12:43:54
                                Stata version: 12.1
                                Operating system: MacOSX   10.6.8   on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations

```

cumulative waves for females in waves 1 and 2

```

178 . des trgovw1 ecprw1 polprw1 airw1 radchw1   ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16   ///
>   illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1   ///
>   pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1   ///
>   fdferw2 liqw1 Havmil

```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
emplw12	byte	%8.0g		emplw1==1. full time
emplw16	byte	%8.0g		emplw1==5. unemployed
illw2	byte	%8.0g		Total number of illnesses experienced in time period 1987-1996
emplw12	byte	%8.0g		emplw1==1. full time
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197

pillw1	byte	%8.0g	number of pills for pain per week in 1976-1986
smokw1	int	%8.0g	number of cigarettes per week in 1976-1986
movew2	byte	%8.0g	Total number of moves experienced in time period 1987-1996
mhlthw2	byte	%8.0g	level of general psychological/mental health in 1996
goferw1	byte	%8.0g	level of fear in percent from going outdoors in 1976-1986
goferw2	byte	%8.0g	level of fear in percent from going outdoors in 1987-1996
fdferw1	byte	%8.0g	* level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	byte	%8.0g	* level of fear in percent from consuming foods contaminated with radiation in 198
liqw1	byte	%8.0g	number of spirits per week in 1976-1986
Havmil	float	%9.0g	Distance from Chornobyl in miles

```

179 .
180 . vselect radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1  ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
>   illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
>   pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1  ///
>   fdferw2 liqw1 Havmil, backward r2adj
97 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdfer
> w1 pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 liqw1 Havmil
>   : R2ADJ -.3401722

```

R2ADJ -.3366027 :	remove	trgovw1
R2ADJ -.316783 :	remove	ecprw1
R2ADJ -.3377283 :	remove	polprw1
R2ADJ -.3428894 :	remove	airw1
R2ADJ -.341101 :	remove	radchw1
R2ADJ -.342259 :	remove	shhousw1
R2ADJ -.3408298 :	remove	trrepw1
R2ADJ -.3415657 :	remove	childw1

R2ADJ	-.3372763	:	remove	radtlw1
R2ADJ	-.3343782	:	remove	emplw12
R2ADJ	-.3363168	:	remove	emplw16
R2ADJ	-.2958845	:	remove	illw2
R2ADJ	-.3343782	:	remove	emplw12
R2ADJ	-.3377573	:	remove	emplw24
R2ADJ	-.329176	:	remove	inc4w1
R2ADJ	-.338668	:	remove	deaw1
R2ADJ	-.342387	:	remove	goferw1
R2ADJ	-.3403172	:	remove	fdferw1
R2ADJ	-.340665	:	remove	pillw1
R2ADJ	-.342799	:	remove	smokw1
R2ADJ	-.3399913	:	remove	movew2
R2ADJ	-.3345125	:	remove	mhlthw2
R2ADJ	-.342387	:	remove	goferw1
R2ADJ	-.3312842	:	remove	goferw2
R2ADJ	-.3403172	:	remove	fdferw1
R2ADJ	-.3428234	:	remove	fdferw2
R2ADJ	-.3176597	:	remove	liqw1
R2ADJ	-.3381592	:	remove	Havmil

```

Stage 1 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 pil
> lw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 liqw1 Havmil : R2A
> DJ -.3428894

```

R2ADJ	-.3393193	:	remove	trgovw1
R2ADJ	-.3171145	:	remove	ecprw1
R2ADJ	-.3383333	:	remove	polprw1
R2ADJ	-.3437877	:	remove	radchw1
R2ADJ	-.3449662	:	remove	shhousw1
R2ADJ	-.3435327	:	remove	trrepw1
R2ADJ	-.3442817	:	remove	childw1
R2ADJ	-.3399583	:	remove	radtlw1
R2ADJ	-.3370764	:	remove	emplw12
R2ADJ	-.3390484	:	remove	emplw16
R2ADJ	-.2986565	:	remove	illw2
R2ADJ	-.3370764	:	remove	emplw12
R2ADJ	-.3404732	:	remove	emplw24
R2ADJ	-.3319473	:	remove	inc4w1
R2ADJ	-.3413253	:	remove	deaw1
R2ADJ	-.3450679	:	remove	goferw1
R2ADJ	-.3430114	:	remove	fdferw1
R2ADJ	-.343269	:	remove	pillw1
R2ADJ	-.3454958	:	remove	smokw1
R2ADJ	-.3427185	:	remove	movew2
R2ADJ	-.3370268	:	remove	mhlthw2
R2ADJ	-.3450679	:	remove	goferw1
R2ADJ	-.3340094	:	remove	goferw2

R2ADJ	-.3430114	:	remove	fdferw1
R2ADJ	-.3455132	:	remove	fdferw2
R2ADJ	-.3202445	:	remove	liqw1
R2ADJ	-.3408935	:	remove	Havmil

```

Stage 2 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 pil
> lw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.345
> 5132

```

R2ADJ	-.3419775	:	remove	trgovw1
R2ADJ	-.3199112	:	remove	ecprw1
R2ADJ	-.3409981	:	remove	polprw1
R2ADJ	-.3463484	:	remove	radchw1
R2ADJ	-.3475765	:	remove	shhousw1
R2ADJ	-.3461464	:	remove	trrepw1
R2ADJ	-.346802	:	remove	childw1
R2ADJ	-.3425607	:	remove	radtlw1
R2ADJ	-.3396145	:	remove	emplw12
R2ADJ	-.341668	:	remove	emplw16
R2ADJ	-.3011423	:	remove	illw2
R2ADJ	-.3396145	:	remove	emplw12
R2ADJ	-.3430978	:	remove	emplw24
R2ADJ	-.3344157	:	remove	inc4w1
R2ADJ	-.3439154	:	remove	deaw1
R2ADJ	-.3477402	:	remove	goferw1
R2ADJ	-.3455064	:	remove	fdferw1
R2ADJ	-.345916	:	remove	pillw1
R2ADJ	-.3481029	:	remove	smokw1
R2ADJ	-.3453367	:	remove	movew2
R2ADJ	-.3397494	:	remove	mhlthw2
R2ADJ	-.3477402	:	remove	goferw1
R2ADJ	-.3338773	:	remove	goferw2
R2ADJ	-.3455064	:	remove	fdferw1
R2ADJ	-.3229568	:	remove	liqw1
R2ADJ	-.3435964	:	remove	Havmil

```

Stage 3 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 pil
> lw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.3481029

```

R2ADJ	-.3446277	:	remove	trgovw1
R2ADJ	-.3225823	:	remove	ecprw1
R2ADJ	-.3433507	:	remove	polprw1
R2ADJ	-.3489816	:	remove	radchw1
R2ADJ	-.3501554	:	remove	shhousw1
R2ADJ	-.3487913	:	remove	trrepw1
R2ADJ	-.3494065	:	remove	childw1
R2ADJ	-.3451607	:	remove	radtlw1

R2ADJ	-.3422889	:	remove	emplw12
R2ADJ	-.3443035	:	remove	emplw16
R2ADJ	-.3037077	:	remove	illw2
R2ADJ	-.3422889	:	remove	emplw12
R2ADJ	-.3457066	:	remove	emplw24
R2ADJ	-.3361831	:	remove	inc4w1
R2ADJ	-.346446	:	remove	deaw1
R2ADJ	-.3503349	:	remove	goferw1
R2ADJ	-.3480636	:	remove	fdferw1
R2ADJ	-.34843	:	remove	pillw1
R2ADJ	-.3479638	:	remove	movew2
R2ADJ	-.3424541	:	remove	mhlthw2
R2ADJ	-.3503349	:	remove	goferw1
R2ADJ	-.3365998	:	remove	goferw2
R2ADJ	-.3480636	:	remove	fdferw1
R2ADJ	-.3257307	:	remove	liqw1
R2ADJ	-.3461315	:	remove	Havmil

```

Stage 4 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 move
> w2 mhlthw2 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.3503349

```

R2ADJ	-.3469191	:	remove	trgovw1
R2ADJ	-.3251008	:	remove	ecprw1
R2ADJ	-.3449745	:	remove	polprw1
R2ADJ	-.3513513	:	remove	radchw1
R2ADJ	-.3522399	:	remove	shhousw1
R2ADJ	-.3508517	:	remove	trrepw1
R2ADJ	-.3517709	:	remove	childw1
R2ADJ	-.3473229	:	remove	radtlw1
R2ADJ	-.3447077	:	remove	emplw12
R2ADJ	-.3467092	:	remove	emplw16
R2ADJ	-.3063658	:	remove	illw2
R2ADJ	-.3447077	:	remove	emplw12
R2ADJ	-.347967	:	remove	emplw24
R2ADJ	-.3388558	:	remove	inc4w1
R2ADJ	-.3490074	:	remove	deaw1
R2ADJ	-.3505039	:	remove	fdferw1
R2ADJ	-.3509009	:	remove	pillw1
R2ADJ	-.3501987	:	remove	movew2
R2ADJ	-.344117	:	remove	mhlthw2
R2ADJ	-.3393014	:	remove	goferw2
R2ADJ	-.3505039	:	remove	fdferw1
R2ADJ	-.3284827	:	remove	liqw1
R2ADJ	-.347789	:	remove	Havmil

```

Stage 5 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 trrepw1 childw1 radtlw1 emp
> lw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw
> 2 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.3522399

```

R2ADJ	-.3490029	:	remove	trgovw1
R2ADJ	-.3242634	:	remove	ecprw1
R2ADJ	-.3469971	:	remove	polprw1
R2ADJ	-.3531664	:	remove	radchwl
R2ADJ	-.352966	:	remove	trrepw1
R2ADJ	-.3535771	:	remove	childw1
R2ADJ	-.3494079	:	remove	radtlw1
R2ADJ	-.3469006	:	remove	emplw12
R2ADJ	-.348598	:	remove	emplw16
R2ADJ	-.3084314	:	remove	illw2
R2ADJ	-.3469006	:	remove	emplw12
R2ADJ	-.3498042	:	remove	emplw24
R2ADJ	-.3402682	:	remove	inc4w1
R2ADJ	-.3503202	:	remove	deaw1
R2ADJ	-.3522598	:	remove	fdferw1
R2ADJ	-.3525757	:	remove	pillw1
R2ADJ	-.3523211	:	remove	movew2
R2ADJ	-.3452725	:	remove	mhlthw2
R2ADJ	-.3399396	:	remove	goferw2
R2ADJ	-.3522598	:	remove	fdferw1
R2ADJ	-.32946	:	remove	liqw1
R2ADJ	-.3500348	:	remove	Havmil

Stage 6 reg radfmw2 trgovw1 ecprw1 polprw1 radchwl trrepw1 radtlw1 emplw12 emp
> lw16 illw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw2 goferw
> 2 fdferw1 liqw1 Havmil : R2ADJ -.3535771

R2ADJ	-.3503854	:	remove	trgovw1
R2ADJ	-.3216101	:	remove	ecprw1
R2ADJ	-.3481251	:	remove	polprw1
R2ADJ	-.3545903	:	remove	radchwl
R2ADJ	-.3544253	:	remove	trrepw1
R2ADJ	-.3504605	:	remove	radtlw1
R2ADJ	-.3463421	:	remove	emplw12
R2ADJ	-.3502153	:	remove	emplw16
R2ADJ	-.3067392	:	remove	illw2
R2ADJ	-.3463421	:	remove	emplw12
R2ADJ	-.3511492	:	remove	emplw24
R2ADJ	-.3421705	:	remove	inc4w1
R2ADJ	-.3515994	:	remove	deaw1
R2ADJ	-.3535363	:	remove	fdferw1
R2ADJ	-.3539729	:	remove	pillw1
R2ADJ	-.3535621	:	remove	movew2
R2ADJ	-.3457054	:	remove	mhlthw2
R2ADJ	-.3406188	:	remove	goferw2
R2ADJ	-.3535363	:	remove	fdferw1
R2ADJ	-.328981	:	remove	liqw1
R2ADJ	-.3512967	:	remove	Havmil

```

Stage 7 reg radfmw2 trgovw1 ecprw1 polprw1 trrepw1 radtlw1 emplw12 emplw16 il
> lw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw2 goferw2 fdfer
> w1 liqw1 Havmil : R2ADJ -.3545903

```

```

R2ADJ -.3515377 :      remove   trgovw1
R2ADJ -.3237895 :      remove   ecprw1
R2ADJ -.3471312 :      remove   polprw1
R2ADJ -.3555337 :      remove   trrepw1
R2ADJ -.3397432 :      remove   radtlw1
R2ADJ -.3467424 :      remove   emplw12
R2ADJ -.3513943 :      remove   emplw16
R2ADJ -.3080678 :      remove   illw2
R2ADJ -.3467424 :      remove   emplw12
R2ADJ -.3524827 :      remove   emplw24
R2ADJ -.342575  :      remove   inc4w1
R2ADJ -.352097  :      remove   deaw1
R2ADJ -.3539424 :      remove   fdferw1
R2ADJ -.3548931 :      remove   pillw1
R2ADJ -.3546966 :      remove   movew2
R2ADJ -.3468642 :      remove   mhlthw2
R2ADJ -.3421107 :      remove   goferw2
R2ADJ -.3539424 :      remove   fdferw1
R2ADJ -.330218  :      remove   liqw1
R2ADJ -.3525458 :      remove   Havmil

```

```

Stage 8 reg radfmw2 trgovw1 ecprw1 polprw1 radtlw1 emplw12 emplw16 illw2 emp
> lw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw2 goferw2 fdferw1 liqw
> 1 Havmil : R2ADJ -.3555337

```

```

R2ADJ -.3539189 :      remove   trgovw1
R2ADJ -.3237718 :      remove   ecprw1
R2ADJ -.3484645 :      remove   polprw1
R2ADJ -.340126  :      remove   radtlw1
R2ADJ -.347565  :      remove   emplw12
R2ADJ -.3519164 :      remove   emplw16
R2ADJ -.309858  :      remove   illw2
R2ADJ -.347565  :      remove   emplw12
R2ADJ -.3534603 :      remove   emplw24
R2ADJ -.3438613 :      remove   inc4w1
R2ADJ -.353656  :      remove   deaw1
R2ADJ -.3551989 :      remove   fdferw1
R2ADJ -.3557826 :      remove   pillw1
R2ADJ -.3561902 :      remove   movew2
R2ADJ -.3478776 :      remove   mhlthw2
R2ADJ -.344092  :      remove   goferw2
R2ADJ -.3551989 :      remove   fdferw1
R2ADJ -.3278223 :      remove   liqw1
R2ADJ -.3538079 :      remove   Havmil

```

```

Stage 9 reg radfmw2 trgovw1 ecprw1 polprw1 radtlw1 emplw12 emplw16 illw2 emp
> lw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 mhlthw2 goferw2 fdferw1 liqw1 Havm
> il : R2ADJ -.3561902

```

```

R2ADJ -.3548619 :      remove      trgovw1
R2ADJ -.3219521 :      remove      ecprw1
R2ADJ -.3498597 :      remove      polprw1
R2ADJ -.3397211 :      remove      radtlw1
R2ADJ -.3467761 :      remove      emplw12
R2ADJ -.3522003 :      remove      emplw16
R2ADJ -.3114031 :      remove      illw2
R2ADJ -.3467761 :      remove      emplw12
R2ADJ -.3543535 :      remove      emplw24
R2ADJ -.3443256 :      remove      inc4w1
R2ADJ -.3541814 :      remove      deaw1
R2ADJ -.3556733 :      remove      fdferw1
R2ADJ -.355978  :      remove      pillw1
R2ADJ -.3490099 :      remove      mhlthw2
R2ADJ -.3455189 :      remove      goferw2
R2ADJ -.3556733 :      remove      fdferw1
R2ADJ -.3287798 :      remove      liqw1
R2ADJ -.3555364 :      remove      Havmil

```

Final Model

note: emplw12 omitted because of collinearity

note: fdferw1 omitted because of collinearity

Source	SS	df	MS	Number of obs =	266
Model	103488.791	16	6468.04945	F(16, 249) =	10.16
Residual	158467.194	249	636.414433	Prob > F =	0.0000
				R-squared =	0.3951
				Adj R-squared =	0.3562
Total	261955.985	265	988.513151	Root MSE =	25.227

radfmw2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	.0554745	.0450581	1.23	0.219	-.033269	.1442181
ecprw1	.2058067	.0544334	3.78	0.000	.0985981	.3130153
polprw1	.0940564	.0505779	1.86	0.064	-.0055588	.1936715
radtlw1	.1262016	.0464077	2.72	0.007	.0347999	.2176033
emplw12	14.10544	6.537287	2.16	0.032	1.23001	26.98086
emplw16	11.33203	7.0973	1.60	0.112	-2.646363	25.31043
illw2	7.696219	1.794608	4.29	0.000	4.161672	11.23077
emplw12	0 (omitted)					
emplw24	-34.33626	26.23295	-1.31	0.192	-86.00301	17.33049
inc4w1	-15.3335	6.475426	-2.37	0.019	-28.08709	-2.579906
deaw1	2.525664	1.893035	1.33	0.183	-1.202738	6.254066

fdferw1	.051033	.0465726	1.10	0.274	-.0406936	.1427595
pillw1	.619223	.5951852	1.04	0.299	-.5530162	1.791462
mhlthw2	-.1677135	.086169	-1.95	0.053	-.3374266	.0019996
goferw2	.2250468	.0992271	2.27	0.024	.0296154	.4204782
fdferw1	0	(omitted)				
liqw1	4.626983	1.35597	3.41	0.001	1.956351	7.297615
Havmil	.0079773	.0071241	1.12	0.264	-.0060539	.0220086
_cons	32.37382	10.25761	3.16	0.002	12.17109	52.57656

```

181 .
182 . subtitle "Females waves 1 and 2 radfmw2 with level of measurement assumption
> violation"

```

```

Date and time: 26 Apr 2012 12:43:57
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta

data file has 2196 variables
and 363 observations

```

Females waves 1 and 2 radfmw2 with level of measurement assumption violation

```

183 .
184 . factor  trgovw1 ecprw1 polprw1 airw1 radchwl  ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
>   illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
>   pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1  ///
>   fdferw2 liqw1 Havmil if gender==2 , factors(4)
(obs=266)
(collinear variables specified)

```

Factor analysis/correlation	Number of obs	=	266
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	106

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.87244	1.73921	0.3588	0.3588
Factor2	3.13323	1.23355	0.2307	0.5895
Factor3	1.89968	0.57333	0.1399	0.7294
Factor4	1.32635	0.28550	0.0977	0.8270
Factor5	1.04085	0.31774	0.0766	0.9037
Factor6	0.72311	0.16369	0.0532	0.9569
Factor7	0.55942	0.12395	0.0412	0.9981
Factor8	0.43547	0.06505	0.0321	1.0302
Factor9	0.37042	0.09469	0.0273	1.0575
Factor10	0.27573	0.03563	0.0203	1.0778
Factor11	0.24010	0.09505	0.0177	1.0955
Factor12	0.14505	0.06336	0.0107	1.1061
Factor13	0.08169	0.00700	0.0060	1.1121
Factor14	0.07469	0.03431	0.0055	1.1176
Factor15	0.04038	0.04038	0.0030	1.1206
Factor16	0.00000	0.00000	0.0000	1.1206
Factor17	-0.00000	0.00000	-0.0000	1.1206
Factor18	-0.00000	0.05612	-0.0000	1.1206
Factor19	-0.05612	0.01075	-0.0041	1.1165
Factor20	-0.06687	0.01683	-0.0049	1.1116
Factor21	-0.08370	0.03014	-0.0062	1.1054
Factor22	-0.11384	0.03118	-0.0084	1.0970
Factor23	-0.14502	0.04606	-0.0107	1.0863
Factor24	-0.19108	0.00843	-0.0141	1.0723
Factor25	-0.19951	0.01048	-0.0147	1.0576
Factor26	-0.20999	0.05926	-0.0155	1.0421
Factor27	-0.26925	0.03345	-0.0198	1.0223
Factor28	-0.30270	.	-0.0223	1.0000

LR test: independent vs. saturated: $\chi^2(378) =$. Prob> $\chi^2 =$.

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.2840	0.1679	0.0811	0.6574	0.4524
ecprw1	0.4098	0.1494	0.3435	0.2206	0.6431
polprw1	0.3131	-0.0294	0.5403	0.0317	0.6082
airw1	0.2426	-0.0964	0.5416	-0.0682	0.6339
radchw1	0.3656	-0.1779	0.5515	-0.1749	0.5000
shhousw1	0.3143	0.1705	0.0888	0.1624	0.8379
trrepw1	0.3583	0.1405	0.0637	0.6360	0.4433
childw1	0.3731	-0.3893	-0.0536	0.1423	0.6861
radtlw1	0.2880	-0.0935	0.5799	-0.1608	0.5462
emplw12	0.3127	-0.9221	-0.1419	0.1084	0.0201

emplw16	-0.2890	0.7789	0.0869	-0.0735	0.2969
illw2	0.1583	-0.0819	-0.2971	0.0421	0.8782
emplw12	0.3127	-0.9221	-0.1419	0.1084	0.0201
emplw24	-0.0700	0.0325	0.0450	-0.0111	0.9919
inc4w1	-0.0504	-0.1627	-0.2199	-0.1073	0.9111
deaw1	0.3356	-0.0106	0.1404	0.0703	0.8626
goferw1	0.8508	0.1384	-0.1676	-0.1586	0.2038
fdferw1	0.8483	0.2209	-0.1830	-0.2642	0.1283
pillw1	0.2470	0.0038	0.0773	0.0002	0.9330
smokw1	-0.0342	-0.1528	-0.0643	-0.0866	0.9638
movew2	-0.1162	0.1877	-0.1358	0.0709	0.9278
mhlthw2	-0.1236	0.0972	-0.0181	0.0325	0.9739
goferw1	0.8508	0.1384	-0.1676	-0.1586	0.2038
goferw2	0.4887	0.3068	-0.1717	0.1781	0.6059
fdferw1	0.8483	0.2209	-0.1830	-0.2642	0.1283
fdferw2	0.4739	0.3596	-0.2283	0.0783	0.5879
liqw1	0.1221	-0.1925	-0.1984	-0.0106	0.9086
Havmil	-0.0631	0.1611	-0.2353	0.2085	0.8712

```

185 . // 6 factors account for 72% of the common variance
186 . // 10 factors have eigenvalues > 1
187 . rotate, blanks(.36)

```

Factor analysis/correlation	Number of obs	=	266
Method: principal factors	Retained factors	=	4
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	106

Factor	Variance	Difference	Proportion	Cumulative
Factor1	4.26840	1.06373	0.3143	0.3143
Factor2	3.20467	1.10952	0.2360	0.5503
Factor3	2.09515	0.43166	0.1543	0.7046
Factor4	1.66349	.	0.1225	0.8270

LR test: independent vs. saturated: chi2(378) = . Prob>chi2 = .

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1				0.7341	0.4524
ecprw1			0.3773	0.3862	0.6431
polprw1			0.5892		0.6082
airw1			0.5963		0.6339
radchw1			0.6641		0.5000
shhousw1					0.8379
trrepw1				0.7271	0.4433
childw1		0.4956			0.6861
radtlw1			0.6596		0.5462
emplw12		0.9888			0.0201
emplw16		-0.8345			0.2969
illw2					0.8782
emplw12		0.9888			0.0201
emplw24					0.9919
inc4w1					0.9111
deaw1					0.8626
goferw1	0.8777				0.2038
fdferw1	0.9309				0.1283
pillw1					0.9330
smokw1					0.9638
movew2					0.9278
mhlthw2					0.9739
goferw1	0.8777				0.2038
goferw2	0.5089				0.6059
fdferw1	0.9309				0.1283
fdferw2	0.5526				0.5879
liqw1					0.9086
Havmil					0.8712

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.8847	0.2761	0.2582	0.2728
Factor2	0.2652	-0.9392	-0.1059	0.1907
Factor3	-0.2622	-0.1572	0.9452	0.1148
Factor4	-0.2797	0.1302	-0.1696	0.9360

```

188 .
189 . subtitle "Females waves 1 and 2 cumulative radfmw2 model"

```

```

                                Date and time: 26 Apr 2012    12:43:58
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations

```

Females waves 1 and 2 cumulative radfmw2 model

```

190 .
191 . polychoricpca trgoww1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 radtlw1 ///
> illw2 inc4w1 deaw1 goferw1 goferw2 fdferw1 fdferw2 ///
> Havmil

```

Polychoric correlation matrix

	trgoww1	ecprw1	polprw1	airw1	radchw1	shhous
> w1 radtlw1	1					
trgoww1	1					
ecprw1	.29362885	1				
polprw1	.12117591	.39605893	1			
airw1	-.02788902	.39270442	.61242133	1		
radchw1	.04548167	.14085646	.3488216	.28435418	1	
shhousw1	.14900441	.33074027	.13139677	.110625	.08311181	
> 1 radtlw1	.05320092	.18442167	.27581348	.25103653	.70694024	.05748
> 07 1						
illw2	.06541433	-.03206604	-.07286019	-.1269093	-.07668277	.083442
> 26 -.19497451 1						
inc4w1	-.32466368	-.25715343	-.18433928	-.06887569	-.21759852	-.235193
> 98 -.25067873 .14569537 1						
deaw1	.13410331	.32164656	.15686684	.20276531	.32515661	.271636
> 42 .24244973 .0991896 -.10642584						
goferw1	.17855498	.24023031	.10439059	.05170707	.23240778	.175480
> 83 .16245176 .22945367 -.13439138						
goferw2	.20178524	.23063457	.01598107	.00144956	.0300514	.284284
> 84 .06221927 .10270475 -.00999704						
fdferw1	.11314462	.24450253	.18826663	.10992113	.2056313	.223864
> 67 .14030833 .20088275 -.00606248						

```

    fdferw2    .1385632    .21915072    .07929555    .01128691    -.02400406    .238248
> 63  -.01296196    .12367734    .05533544
    Havmil    .06995724    -.05490047    -.09418125    -.14771624    -.17886767    -.047968
> 07  -.2025807    .06326522    -.41611501

```

```

                deawl    goferw1    goferw2    fdferw1    fdferw2    Havm
> il
    deawl            1
    goferw1    .42993609            1
    goferw2    .17672972    .41533769            1
    fdferw1    .29459499    .7067344    .3961652            1
    fdferw2    .12479101    .31559874    .62697307    .53754392            1
    Havmil    -.0694486    -.08088374    .17262165    -.00939641    .18171766
> 1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	3.592983	0.239532	0.239532
2	2.321746	0.154783	0.394315
3	1.595942	0.106396	0.500711
4	1.280906	0.085394	0.586105
5	1.083481	0.072232	0.658337
6	0.945622	0.063041	0.721379
7	0.848325	0.056555	0.777934
8	0.733689	0.048913	0.826846
9	0.648977	0.043265	0.870111
10	0.492140	0.032809	0.902921
11	0.434553	0.028970	0.931891
12	0.341093	0.022740	0.954630
13	0.277285	0.018486	0.973116
14	0.247412	0.016494	0.989610
15	0.155849	0.010390	1.000000

192 .

193 . matrix define mypchor12f=r(R)

```
194 . factormat mypchor12f, n(363) blanks(.36) factors(4)
      (obs=363)
```

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	54

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	3.09737	1.26831	0.4520	0.4520
Factor2	1.82906	0.74886	0.2669	0.7190
Factor3	1.08020	0.30187	0.1576	0.8766
Factor4	0.77833	0.27637	0.1136	0.9902
Factor5	0.50197	0.13269	0.0733	1.0634
Factor6	0.36928	0.21443	0.0539	1.1173
Factor7	0.15485	0.07118	0.0226	1.1399
Factor8	0.08367	0.02583	0.0122	1.1521
Factor9	0.05784	0.09744	0.0084	1.1606
Factor10	-0.03960	0.09502	-0.0058	1.1548
Factor11	-0.13462	0.05259	-0.0196	1.1352
Factor12	-0.18720	0.01489	-0.0273	1.1078
Factor13	-0.20209	0.01801	-0.0295	1.0783
Factor14	-0.22010	0.09662	-0.0321	1.0462
Factor15	-0.31672	.	-0.0462	1.0000

LR test: independent vs. saturated: $\chi^2(105) = 1858.06$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1					0.8179
ecprw1	0.5522				0.5570
polprw1	0.4606	-0.4114			0.4928
airw1	0.3859	-0.4417		0.4161	0.4814
radchw1	0.4906	-0.5025			0.3768
shhousw1	0.4067				0.7917
radtlw1	0.4456	-0.5157			0.4182
illw2					0.8758
inc4w1			0.6727		0.3666
deaw1	0.5133				0.7205
goferw1	0.6672				0.3697
goferw2	0.5016	0.4695			0.5244
fdferw1	0.6730				0.3629
fdferw2	0.4787	0.5149			0.4841
Havmil			-0.5721		0.5752

(blanks represent abs(loading)<.36)

195 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	4
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	54

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.51208	0.86843	0.3666	0.3666
Factor2	1.64365	0.16727	0.2399	0.6065
Factor3	1.47639	0.32356	0.2155	0.8219
Factor4	1.15283	.	0.1682	0.9902

LR test: independent vs. saturated: chi2(105) = **1858.06** Prob>chi2 = **0.0000**

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1					0.8179
ecprw1			0.5537		0.5570
polprw1			0.6668		0.4928
airw1			0.6865		0.4814
radchw1		0.7608			0.3768
shhousw1					0.7917
radtlw1		0.7364			0.4182
illw2					0.8758
inc4w1				-0.7539	0.3666
deaw1	0.3733				0.7205
goferw1	0.7396				0.3697
goferw2	0.6600				0.5244
fdferw1	0.7753				0.3629
fdferw2	0.6744				0.4841
Havmil				0.5631	0.5752

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.7510	0.4248	0.4592	0.2115
Factor2	0.6280	-0.6397	-0.4428	0.0161
Factor3	0.1944	0.2368	-0.1009	-0.9466
Factor4	-0.0617	-0.5952	0.7635	-0.2429

```
196 .
197 .
198 . set more off
```

```
199 . subtitle "cumulative waves for radfmw3 females in waves 1 2 and 3 "
```

```

                                Date and time: 26 Apr 2012    12:44:03
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations
```

cumulative waves for radfmw3 females in waves 1 2 and 3

```
200 . subtitle "Variable index for cumulative waves for females in waves 1 2 and
> 3 "
```

```

                                Date and time: 26 Apr 2012    12:44:03
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations
```

Variable index for cumulative waves for females in waves 1 2 and 3

```

201 .
202 . di "female sample size = ",_N
    female sample size = 363

203 . di c(filename)
    chwide22apr2012females.dta

204 . tab gender

```

respondent's gender	Freq.	Percent	Cum.
2. female	363	100.00	100.00
Total	363	100.00	

```

205 .
206 . des trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 em
> plw23 ///
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin

```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
healthef	byte	%8.0g		* a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	byte	%8.0g		Percentage of strains and

				hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
illw2	byte	%8.0g		Total number of illnesses experienced in time period 1987-1996
emplw23	byte	%8.0g		emplw2==2. part time
emplw12	byte	%8.0g		emplw1==1. full time
emplw13	byte	%8.0g		emplw1==2. part time
emplw16	byte	%8.0g		emplw1==5. unemployed
emplw23	byte	%8.0g		emplw2==2. part time
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
cataw3	byte	%8.0g		Total number of disasters experienced in time period 1996-NOW
movew2	byte	%8.0g		Total number of moves experienced in time period 1987-1996
mhlthw2	byte	%8.0g		level of general psychological/mental health in 1996
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
goferw2	byte	%8.0g		level of fear in percent from going outdoors in 1987-1996
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 198
ncontw3	byte	%15.0g	LABC	use of natural contraception in 1997-now
pillw1	byte	%8.0g		number of pills for pain per week in 1976-1986
pillw3	byte	%8.0g		number of pills for pain per week in 1997-now

smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
liqw1	byte	%8.0g		number of spirits per week in 1976-1986
liqw2	byte	%8.0g		number of spirits per week in 1987-1996
WHPel	float	%9.0g		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	float	%9.0g		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth causing probs with social life
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
Havmil	float	%9.0g		Distance from Chornobyl in miles
carcin	byte	%8.0g		* a person exposed to carcinogen is likely to get cancer (% of agreement)

```

207 .
208 . vselect radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 em
> plw23 ///
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, backward r2adj
97 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16
> emplw23 emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1
> fdferw2 ncontw3 pillw1 pi : R2ADJ -.4907787

```

R2ADJ -.4929087 :	remove	trgovw1
R2ADJ -.48343 :	remove	ecprw1
R2ADJ -.486784 :	remove	polprw1
R2ADJ -.4912405 :	remove	airw1
R2ADJ -.4740288 :	remove	radchw1
R2ADJ -.4794159 :	remove	dauthw3
R2ADJ -.492978 :	remove	healthef
R2ADJ -.4912037 :	remove	HP2vacatn
R2ADJ -.4917688 :	remove	shhousw1

R2ADJ	-.4930201	:	remove	trrepw1
R2ADJ	-.4929725	:	remove	childw1
R2ADJ	-.4928222	:	remove	radtlw1
R2ADJ	-.4638152	:	remove	illw2
R2ADJ	-.49203	:	remove	emplw23
R2ADJ	-.4925336	:	remove	emplw12
R2ADJ	-.4929303	:	remove	emplw13
R2ADJ	-.4929005	:	remove	emplw16
R2ADJ	-.49203	:	remove	emplw23
R2ADJ	-.4866129	:	remove	emplw24
R2ADJ	-.4860573	:	remove	inc4w1
R2ADJ	-.4930022	:	remove	deaw1
R2ADJ	-.485566	:	remove	cataw3
R2ADJ	-.4904589	:	remove	movew2
R2ADJ	-.4836258	:	remove	mhlthw2
R2ADJ	-.4929489	:	remove	goferw1
R2ADJ	-.4868119	:	remove	goferw2
R2ADJ	-.4929937	:	remove	fdferw1
R2ADJ	-.4911344	:	remove	fdferw2
R2ADJ	-.4885794	:	remove	ncontw3
R2ADJ	-.4918355	:	remove	pillw1
R2ADJ	-.4911856	:	remove	pillw3
R2ADJ	-.4925692	:	remove	smokw1
R2ADJ	-.4801171	:	remove	liqw1
R2ADJ	-.491414	:	remove	liqw2
R2ADJ	-.4849759	:	remove	WHPel
R2ADJ	-.491119	:	remove	WHPpa
R2ADJ	-.4921158	:	remove	HP2probsoc
R2ADJ	-.3848558	:	remove	radchw3
R2ADJ	-.4927233	:	remove	Havmil
R2ADJ	-.4919176	:	remove	carcin

```

Stage 1 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2
> ncontw3 pillw1 pillw3 sm : R2ADJ -.4930201

```

R2ADJ	-.4949899	:	remove	trgovw1
R2ADJ	-.485642	:	remove	ecprw1
R2ADJ	-.4890337	:	remove	polprw1
R2ADJ	-.4934708	:	remove	airw1
R2ADJ	-.4763293	:	remove	radchw1
R2ADJ	-.4816839	:	remove	dauthw3
R2ADJ	-.4952007	:	remove	healthef
R2ADJ	-.4934338	:	remove	HP2vacatn
R2ADJ	-.4939925	:	remove	shhousw1
R2ADJ	-.4951948	:	remove	childw1
R2ADJ	-.4950461	:	remove	radtlw1
R2ADJ	-.4660951	:	remove	illw2

R2ADJ	-.4942381	:	remove	emplw23
R2ADJ	-.4947512	:	remove	emplw12
R2ADJ	-.4951505	:	remove	emplw13
R2ADJ	-.4951201	:	remove	emplw16
R2ADJ	-.4942381	:	remove	emplw23
R2ADJ	-.4888635	:	remove	emplw24
R2ADJ	-.4883045	:	remove	inc4w1
R2ADJ	-.4952249	:	remove	deaw1
R2ADJ	-.487816	:	remove	cataw3
R2ADJ	-.492633	:	remove	movew2
R2ADJ	-.4858906	:	remove	mhlthw2
R2ADJ	-.4951685	:	remove	goferw1
R2ADJ	-.4890465	:	remove	goferw2
R2ADJ	-.4952156	:	remove	fdferw1
R2ADJ	-.4933616	:	remove	fdferw2
R2ADJ	-.4908153	:	remove	ncontw3
R2ADJ	-.4940506	:	remove	pillw1
R2ADJ	-.4934019	:	remove	pillw3
R2ADJ	-.4947803	:	remove	smokw1
R2ADJ	-.4821128	:	remove	liqw1
R2ADJ	-.493641	:	remove	liqw2
R2ADJ	-.4872344	:	remove	WHPel
R2ADJ	-.4933503	:	remove	WHPpa
R2ADJ	-.4943419	:	remove	HP2probsoc
R2ADJ	-.3873949	:	remove	radchw3
R2ADJ	-.4949482	:	remove	Havmil
R2ADJ	-.4941456	:	remove	carcin

```

Stage 2 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw
> 3 pillw1 pillw3 smokw1 : R2ADJ -.4952249

```

R2ADJ	-.4971712	:	remove	trgovw1
R2ADJ	-.4876569	:	remove	ecprw1
R2ADJ	-.4912602	:	remove	polprw1
R2ADJ	-.4956338	:	remove	airw1
R2ADJ	-.4786106	:	remove	radchw1
R2ADJ	-.4838687	:	remove	dauthw3
R2ADJ	-.497388	:	remove	healthef
R2ADJ	-.4956273	:	remove	HP2vacatn
R2ADJ	-.4960891	:	remove	shhousw1
R2ADJ	-.4973818	:	remove	childw1
R2ADJ	-.4972333	:	remove	radtlw1
R2ADJ	-.4684097	:	remove	illw2
R2ADJ	-.4964322	:	remove	emplw23
R2ADJ	-.4969521	:	remove	emplw12
R2ADJ	-.497343	:	remove	emplw13
R2ADJ	-.497315	:	remove	emplw16

R2ADJ	-.4964322	:	remove	emplw23
R2ADJ	-.490985	:	remove	emplw24
R2ADJ	-.4905346	:	remove	inc4w1
R2ADJ	-.4900474	:	remove	cataw3
R2ADJ	-.4948127	:	remove	movew2
R2ADJ	-.4881208	:	remove	mhlthw2
R2ADJ	-.4973641	:	remove	goferw1
R2ADJ	-.4912682	:	remove	goferw2
R2ADJ	-.4974036	:	remove	fdferw1
R2ADJ	-.4955489	:	remove	fdferw2
R2ADJ	-.4930369	:	remove	ncontw3
R2ADJ	-.4962498	:	remove	pillw1
R2ADJ	-.495604	:	remove	pillw3
R2ADJ	-.4969745	:	remove	smokw1
R2ADJ	-.4843722	:	remove	liqw1
R2ADJ	-.4958234	:	remove	liqw2
R2ADJ	-.4893978	:	remove	WHPel
R2ADJ	-.4955349	:	remove	WHPpa
R2ADJ	-.4965258	:	remove	HP2probsoc
R2ADJ	-.3891562	:	remove	radchw3
R2ADJ	-.4971243	:	remove	Havmil
R2ADJ	-.4963414	:	remove	carcin

```

Stage 3 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw2 ncontw3 pillw1
> pillw3 smokw1 liqw1 1 : R2ADJ -.4974036

```

R2ADJ	-.4993146	:	remove	trgovw1
R2ADJ	-.489865	:	remove	ecprw1
R2ADJ	-.4932777	:	remove	polprw1
R2ADJ	-.4977861	:	remove	airw1
R2ADJ	-.4808775	:	remove	radchw1
R2ADJ	-.4858404	:	remove	dauthw3
R2ADJ	-.4995474	:	remove	healthef
R2ADJ	-.4978179	:	remove	HP2vacatn
R2ADJ	-.4982156	:	remove	shhousw1
R2ADJ	-.4995434	:	remove	childw1
R2ADJ	-.499396	:	remove	radtlw1
R2ADJ	-.4706429	:	remove	illw2
R2ADJ	-.4986041	:	remove	emplw23
R2ADJ	-.4991194	:	remove	emplw12
R2ADJ	-.4995051	:	remove	emplw13
R2ADJ	-.4994789	:	remove	emplw16
R2ADJ	-.4986041	:	remove	emplw23
R2ADJ	-.493137	:	remove	emplw24
R2ADJ	-.4927496	:	remove	inc4w1
R2ADJ	-.4920936	:	remove	cataw3
R2ADJ	-.4969773	:	remove	movew2

R2ADJ	-.4903015	:	remove	mhlthw2
R2ADJ	-.4995494	:	remove	goferw1
R2ADJ	-.4934457	:	remove	goferw2
R2ADJ	-.4975166	:	remove	fdferw2
R2ADJ	-.4952219	:	remove	ncontw3
R2ADJ	-.498432	:	remove	pillw1
R2ADJ	-.4977657	:	remove	pillw3
R2ADJ	-.499138	:	remove	smokw1
R2ADJ	-.4865958	:	remove	liqw1
R2ADJ	-.4979747	:	remove	liqw2
R2ADJ	-.4913943	:	remove	WHPel
R2ADJ	-.4977035	:	remove	WHPpa
R2ADJ	-.4986659	:	remove	HP2probsoc
R2ADJ	-.3918093	:	remove	radchw3
R2ADJ	-.4992713	:	remove	Havmil
R2ADJ	-.4985027	:	remove	carcin

```

Stage 4 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3
> smokw1 liqw1 liqw2 WH : R2ADJ -.4995494

```

R2ADJ	-.501437	:	remove	trgovw1
R2ADJ	-.492073	:	remove	ecprw1
R2ADJ	-.4954315	:	remove	polprw1
R2ADJ	-.4998882	:	remove	airw1
R2ADJ	-.4826511	:	remove	radchw1
R2ADJ	-.488055	:	remove	dauthw3
R2ADJ	-.5016729	:	remove	healthef
R2ADJ	-.4999629	:	remove	HP2vacatn
R2ADJ	-.5003411	:	remove	shhousw1
R2ADJ	-.5016779	:	remove	childw1
R2ADJ	-.5015315	:	remove	radtlw1
R2ADJ	-.4729191	:	remove	illw2
R2ADJ	-.5006993	:	remove	emplw23
R2ADJ	-.5012615	:	remove	emplw12
R2ADJ	-.5016374	:	remove	emplw13
R2ADJ	-.5016119	:	remove	emplw16
R2ADJ	-.5006993	:	remove	emplw23
R2ADJ	-.4953067	:	remove	emplw24
R2ADJ	-.4949347	:	remove	inc4w1
R2ADJ	-.4942152	:	remove	cataw3
R2ADJ	-.4991422	:	remove	movew2
R2ADJ	-.4923364	:	remove	mhlthw2
R2ADJ	-.4954525	:	remove	goferw2
R2ADJ	-.4995974	:	remove	fdferw2
R2ADJ	-.497399	:	remove	ncontw3
R2ADJ	-.5006032	:	remove	pillw1
R2ADJ	-.4999398	:	remove	pillw3

R2ADJ	-.5012446	:	remove	smokw1
R2ADJ	-.4888035	:	remove	liqw1
R2ADJ	-.5001049	:	remove	liqw2
R2ADJ	-.493591	:	remove	WHPel
R2ADJ	-.4998578	:	remove	WHPpa
R2ADJ	-.500825	:	remove	HP2probsoc
R2ADJ	-.3941262	:	remove	radchw3
R2ADJ	-.5013622	:	remove	Havmil
R2ADJ	-.5006299	:	remove	carcin

```

Stage 5 reg radfmw3 trgoww1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 emplw23 emplw2
> 4 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1
> liqw1 liqw2 WHPel WHP : R2ADJ -.5016779

```

R2ADJ	-.5035467	:	remove	trgoww1
R2ADJ	-.493636	:	remove	ecprw1
R2ADJ	-.497452	:	remove	polprw1
R2ADJ	-.5020379	:	remove	airw1
R2ADJ	-.4846834	:	remove	radchw1
R2ADJ	-.490143	:	remove	dauthw3
R2ADJ	-.5037768	:	remove	healthef
R2ADJ	-.5021009	:	remove	HP2vacatn
R2ADJ	-.502438	:	remove	shhousw1
R2ADJ	-.50365	:	remove	radtlw1
R2ADJ	-.4744769	:	remove	illw2
R2ADJ	-.5028318	:	remove	emplw23
R2ADJ	-.5033565	:	remove	emplw12
R2ADJ	-.5037485	:	remove	emplw13
R2ADJ	-.5037257	:	remove	emplw16
R2ADJ	-.5028318	:	remove	emplw23
R2ADJ	-.497433	:	remove	emplw24
R2ADJ	-.4971116	:	remove	inc4w1
R2ADJ	-.4963933	:	remove	cataw3
R2ADJ	-.5012429	:	remove	movew2
R2ADJ	-.4943691	:	remove	mhlthw2
R2ADJ	-.4974717	:	remove	goferw2
R2ADJ	-.5016555	:	remove	fdferw2
R2ADJ	-.4995537	:	remove	ncontw3
R2ADJ	-.5027171	:	remove	pillw1
R2ADJ	-.5020616	:	remove	pillw3
R2ADJ	-.5033457	:	remove	smokw1
R2ADJ	-.4905277	:	remove	liqw1
R2ADJ	-.5021401	:	remove	liqw2
R2ADJ	-.4957114	:	remove	WHPel
R2ADJ	-.5020133	:	remove	WHPpa
R2ADJ	-.502921	:	remove	HP2probsoc
R2ADJ	-.3966316	:	remove	radchw3
R2ADJ	-.5034607	:	remove	Havmil

R2ADJ -.5027081 : remove carcin

Stage 6 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 radtlw1 illw2 emplw23 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1
> cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liq
> w2 WHPel WHPpa HP2pr : R2ADJ -.5037768

R2ADJ -.505631 :	remove	trgovw1
R2ADJ -.4956542 :	remove	ecprw1
R2ADJ -.4994293 :	remove	polprw1
R2ADJ -.5041557 :	remove	airw1
R2ADJ -.4868891 :	remove	radchw1
R2ADJ -.4922627 :	remove	dauthw3
R2ADJ -.5042034 :	remove	HP2vacatn
R2ADJ -.5045403 :	remove	shhousw1
R2ADJ -.5057306 :	remove	radtlw1
R2ADJ -.4767144 :	remove	illw2
R2ADJ -.5049058 :	remove	emplw23
R2ADJ -.5054368 :	remove	emplw12
R2ADJ -.505827 :	remove	emplw13
R2ADJ -.5058072 :	remove	emplw16
R2ADJ -.5049058 :	remove	emplw23
R2ADJ -.499542 :	remove	emplw24
R2ADJ -.4992439 :	remove	inc4w1
R2ADJ -.4984872 :	remove	cataw3
R2ADJ -.5033264 :	remove	movew2
R2ADJ -.4965328 :	remove	mhlthw2
R2ADJ -.499578 :	remove	goferw2
R2ADJ -.5037045 :	remove	fdferw2
R2ADJ -.5014753 :	remove	ncontw3
R2ADJ -.5047744 :	remove	pillw1
R2ADJ -.5041022 :	remove	pillw3
R2ADJ -.505433 :	remove	smokw1
R2ADJ -.4927125 :	remove	liqw1
R2ADJ -.5042254 :	remove	liqw2
R2ADJ -.4976897 :	remove	WHPel
R2ADJ -.5041071 :	remove	WHPpa
R2ADJ -.5050176 :	remove	HP2probsoc
R2ADJ -.3992038 :	remove	radchw3
R2ADJ -.5055387 :	remove	Havmil
R2ADJ -.4711726 :	remove	carcin

Stage 7 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 radtlw1 illw2 emplw23 emplw12 emplw16 emplw23 emplw24 inc4w1 cataw3 m
> ovej2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel
> WHPpa HP2probsoc r : R2ADJ -.505827

R2ADJ -.5076799 :	remove	trgovw1
R2ADJ -.4977272 :	remove	ecprw1

R2ADJ	-.5015015	:	remove	polprw1
R2ADJ	-.5062172	:	remove	airw1
R2ADJ	-.4890603	:	remove	radchw1
R2ADJ	-.4938878	:	remove	dauthw3
R2ADJ	-.5062518	:	remove	HP2vacatn
R2ADJ	-.5065928	:	remove	shhousw1
R2ADJ	-.5077504	:	remove	radtlw1
R2ADJ	-.478944	:	remove	illw2
R2ADJ	-.5068693	:	remove	emplw23
R2ADJ	-.5065893	:	remove	emplw12
R2ADJ	-.5079184	:	remove	emplw16
R2ADJ	-.5068693	:	remove	emplw23
R2ADJ	-.4972255	:	remove	emplw24
R2ADJ	-.5013152	:	remove	inc4w1
R2ADJ	-.5005414	:	remove	cataw3
R2ADJ	-.505415	:	remove	movew2
R2ADJ	-.4982535	:	remove	hhlthw2
R2ADJ	-.5016846	:	remove	goferw2
R2ADJ	-.5057768	:	remove	fdferw2
R2ADJ	-.5034568	:	remove	ncontw3
R2ADJ	-.5068904	:	remove	pillw1
R2ADJ	-.5061826	:	remove	pillw3
R2ADJ	-.5074708	:	remove	smokw1
R2ADJ	-.494878	:	remove	liqw1
R2ADJ	-.5063184	:	remove	liqw2
R2ADJ	-.4998363	:	remove	WHPel
R2ADJ	-.5060671	:	remove	WHPpa
R2ADJ	-.5070156	:	remove	HP2probsoc
R2ADJ	-.4016882	:	remove	radchw3
R2ADJ	-.5075819	:	remove	Havmil
R2ADJ	-.4731404	:	remove	carcin

```

Stage 8 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 radtlw1 illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 m
> hlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa
> HP2probsoc radchw3 : R2ADJ -.5079184

```

R2ADJ	-.5097542	:	remove	trgovw1
R2ADJ	-.4998485	:	remove	ecprw1
R2ADJ	-.5035611	:	remove	polprw1
R2ADJ	-.5082965	:	remove	airw1
R2ADJ	-.4907516	:	remove	radchw1
R2ADJ	-.495975	:	remove	dauthw3
R2ADJ	-.5083077	:	remove	HP2vacatn
R2ADJ	-.5086713	:	remove	shhousw1
R2ADJ	-.5098196	:	remove	radtlw1
R2ADJ	-.4811499	:	remove	illw2
R2ADJ	-.5089643	:	remove	emplw23
R2ADJ	-.5066729	:	remove	emplw12

R2ADJ	-.5089643	:	remove	emplw23
R2ADJ	-.4984726	:	remove	emplw24
R2ADJ	-.5034344	:	remove	inc4w1
R2ADJ	-.5025471	:	remove	cataw3
R2ADJ	-.5074623	:	remove	movew2
R2ADJ	-.5003861	:	remove	mhlthw2
R2ADJ	-.5037997	:	remove	goferw2
R2ADJ	-.5078498	:	remove	fdferw2
R2ADJ	-.5055174	:	remove	ncontw3
R2ADJ	-.5089884	:	remove	pillw1
R2ADJ	-.5082762	:	remove	pillw3
R2ADJ	-.5095418	:	remove	smokw1
R2ADJ	-.4969193	:	remove	liqw1
R2ADJ	-.5083394	:	remove	liqw2
R2ADJ	-.5018757	:	remove	WHPel
R2ADJ	-.508134	:	remove	WHPpa
R2ADJ	-.5091126	:	remove	HP2probsoc
R2ADJ	-.4013057	:	remove	radchw3
R2ADJ	-.5096531	:	remove	Havmil
R2ADJ	-.4743068	:	remove	carcin

```

Stage 9 reg radfmw3 trgoww1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 g
> oferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probs
> oc radchw3 Havmil : R2ADJ -.5098196

```

R2ADJ	-.5116352	:	remove	trgoww1
R2ADJ	-.5018564	:	remove	ecprw1
R2ADJ	-.5054247	:	remove	polprw1
R2ADJ	-.5102174	:	remove	airw1
R2ADJ	-.4839419	:	remove	radchw1
R2ADJ	-.4981031	:	remove	dauthw3
R2ADJ	-.5102681	:	remove	HP2vacatn
R2ADJ	-.5105016	:	remove	shhousw1
R2ADJ	-.482392	:	remove	illw2
R2ADJ	-.510903	:	remove	emplw23
R2ADJ	-.5085503	:	remove	emplw12
R2ADJ	-.510903	:	remove	emplw23
R2ADJ	-.5003414	:	remove	emplw24
R2ADJ	-.5054034	:	remove	inc4w1
R2ADJ	-.5043942	:	remove	cataw3
R2ADJ	-.5094526	:	remove	movew2
R2ADJ	-.5024374	:	remove	mhlthw2
R2ADJ	-.5057993	:	remove	goferw2
R2ADJ	-.5097476	:	remove	fdferw2
R2ADJ	-.5074721	:	remove	ncontw3
R2ADJ	-.5109027	:	remove	pillw1
R2ADJ	-.5102788	:	remove	pillw3
R2ADJ	-.5114481	:	remove	smokw1

R2ADJ	-.4986222	:	remove	liqw1
R2ADJ	-.5102617	:	remove	liqw2
R2ADJ	-.5034424	:	remove	WHPel
R2ADJ	-.5099307	:	remove	WHPpa
R2ADJ	-.5109636	:	remove	HP2probsoc
R2ADJ	-.4031237	:	remove	radchw3
R2ADJ	-.5114635	:	remove	Havmil
R2ADJ	-.4763294	:	remove	carcin

```

Stage 10 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2
> fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radc
> hw3 Havmil carcin : R2ADJ -.5116352

```

R2ADJ	-.5039376	:	remove	ecprw1
R2ADJ	-.5074502	:	remove	polprw1
R2ADJ	-.5117613	:	remove	airw1
R2ADJ	-.4859298	:	remove	radchw1
R2ADJ	-.5002008	:	remove	dauthw3
R2ADJ	-.5120627	:	remove	HP2vacatn
R2ADJ	-.5123279	:	remove	shhousw1
R2ADJ	-.4842033	:	remove	illw2
R2ADJ	-.5127245	:	remove	emplw23
R2ADJ	-.5104645	:	remove	emplw12
R2ADJ	-.5127245	:	remove	emplw23
R2ADJ	-.5020777	:	remove	emplw24
R2ADJ	-.5074336	:	remove	inc4w1
R2ADJ	-.5063936	:	remove	cataw3
R2ADJ	-.5111014	:	remove	movew2
R2ADJ	-.5039209	:	remove	mhlthw2
R2ADJ	-.5077995	:	remove	goferw2
R2ADJ	-.5115917	:	remove	fdferw2
R2ADJ	-.5093311	:	remove	ncontw3
R2ADJ	-.5126867	:	remove	pillw1
R2ADJ	-.5120139	:	remove	pillw3
R2ADJ	-.5132414	:	remove	smokw1
R2ADJ	-.5005022	:	remove	liqw1
R2ADJ	-.5121376	:	remove	liqw2
R2ADJ	-.5051373	:	remove	WHPel
R2ADJ	-.511672	:	remove	WHPpa
R2ADJ	-.5128415	:	remove	HP2probsoc
R2ADJ	-.4045576	:	remove	radchw3
R2ADJ	-.5132826	:	remove	Havmil
R2ADJ	-.4779331	:	remove	carcin

```

Stage 11 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2
> fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radc
> hw3 carcin : R2ADJ -.5132826

```

R2ADJ	-.5056635	:	remove	ecprw1
R2ADJ	-.5091323	:	remove	polprw1
R2ADJ	-.5135404	:	remove	airw1
R2ADJ	-.4861083	:	remove	radchw1
R2ADJ	-.5021809	:	remove	dauthw3
R2ADJ	-.5135934	:	remove	HP2vacatn
R2ADJ	-.5140606	:	remove	shhousw1
R2ADJ	-.4861164	:	remove	illw2
R2ADJ	-.5142993	:	remove	emplw23
R2ADJ	-.5119863	:	remove	emplw12
R2ADJ	-.5142993	:	remove	emplw23
R2ADJ	-.5037396	:	remove	emplw24
R2ADJ	-.5087954	:	remove	inc4w1
R2ADJ	-.508189	:	remove	cataw3
R2ADJ	-.5130858	:	remove	movew2
R2ADJ	-.5054983	:	remove	mhlthw2
R2ADJ	-.509191	:	remove	goferw2
R2ADJ	-.5134118	:	remove	fdferw2
R2ADJ	-.5107548	:	remove	ncontw3
R2ADJ	-.5143536	:	remove	pillw1
R2ADJ	-.5136564	:	remove	pillw3
R2ADJ	-.5148921	:	remove	smokw1
R2ADJ	-.5023734	:	remove	liqw1
R2ADJ	-.513844	:	remove	liqw2
R2ADJ	-.5071608	:	remove	WHPel
R2ADJ	-.5133712	:	remove	WHPpa
R2ADJ	-.5145252	:	remove	HP2probsoc
R2ADJ	-.4046738	:	remove	radchw3
R2ADJ	-.4790579	:	remove	carcin

```

Stage 12 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2
> fdferw2 ncontw3 pillw1 pillw3 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 car
> cin : R2ADJ -.5148921

```

R2ADJ	-.5072012	:	remove	ecprw1
R2ADJ	-.5110142	:	remove	polprw1
R2ADJ	-.5150928	:	remove	airw1
R2ADJ	-.4882029	:	remove	radchw1
R2ADJ	-.5039753	:	remove	dauthw3
R2ADJ	-.5153243	:	remove	HP2vacatn
R2ADJ	-.5156528	:	remove	shhousw1
R2ADJ	-.4878422	:	remove	illw2
R2ADJ	-.5159367	:	remove	emplw23
R2ADJ	-.5135652	:	remove	emplw12
R2ADJ	-.5159367	:	remove	emplw23
R2ADJ	-.5053244	:	remove	emplw24
R2ADJ	-.5108157	:	remove	inc4w1

R2ADJ	-.5096082	:	remove	cataw3
R2ADJ	-.5145831	:	remove	movew2
R2ADJ	-.5066451	:	remove	mhlthw2
R2ADJ	-.510537	:	remove	goferw2
R2ADJ	-.5149489	:	remove	fdferw2
R2ADJ	-.5123406	:	remove	ncontw3
R2ADJ	-.5160772	:	remove	pillw1
R2ADJ	-.5154199	:	remove	pillw3
R2ADJ	-.5036243	:	remove	liqw1
R2ADJ	-.5154385	:	remove	liqw2
R2ADJ	-.5086513	:	remove	WHPel
R2ADJ	-.5149929	:	remove	WHPpa
R2ADJ	-.5161873	:	remove	HP2probsoc
R2ADJ	-.4066312	:	remove	radchw3
R2ADJ	-.4811684	:	remove	carcin

```

Stage 13 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2
> fdferw2 ncontw3 pillw1 pillw3 liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ
> -.5161873

```

R2ADJ	-.5081427	:	remove	ecprw1
R2ADJ	-.5126247	:	remove	polprw1
R2ADJ	-.516298	:	remove	airw1
R2ADJ	-.4892052	:	remove	radchw1
R2ADJ	-.5057349	:	remove	dauthw3
R2ADJ	-.5147455	:	remove	HP2vacatn
R2ADJ	-.5170788	:	remove	shhousw1
R2ADJ	-.4876458	:	remove	illw2
R2ADJ	-.5172915	:	remove	emplw23
R2ADJ	-.5147318	:	remove	emplw12
R2ADJ	-.5172915	:	remove	emplw23
R2ADJ	-.5065865	:	remove	emplw24
R2ADJ	-.5118589	:	remove	inc4w1
R2ADJ	-.5104033	:	remove	cataw3
R2ADJ	-.5157531	:	remove	movew2
R2ADJ	-.5081746	:	remove	mhlthw2
R2ADJ	-.5118352	:	remove	goferw2
R2ADJ	-.5162657	:	remove	fdferw2
R2ADJ	-.51402	:	remove	ncontw3
R2ADJ	-.5173705	:	remove	pillw1
R2ADJ	-.5168285	:	remove	pillw3
R2ADJ	-.5052147	:	remove	liqw1
R2ADJ	-.5167766	:	remove	liqw2
R2ADJ	-.5089645	:	remove	WHPel
R2ADJ	-.5167226	:	remove	WHPpa
R2ADJ	-.4057961	:	remove	radchw3
R2ADJ	-.4817718	:	remove	carcin

```

Stage 14 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2
> fdferw2 ncontw3 pillw3 liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5173
> 705

```

R2ADJ -.5096328 :	remove	ecprw1
R2ADJ -.5136811 :	remove	polprw1
R2ADJ -.5170931 :	remove	airw1
R2ADJ -.4901211 :	remove	radchw1
R2ADJ -.5070768 :	remove	dauthw3
R2ADJ -.515681 :	remove	HP2vacatn
R2ADJ -.5180447 :	remove	shhousw1
R2ADJ -.489212 :	remove	illw2
R2ADJ -.5185365 :	remove	emplw23
R2ADJ -.5159417 :	remove	emplw12
R2ADJ -.5185365 :	remove	emplw23
R2ADJ -.5077898 :	remove	emplw24
R2ADJ -.5130624 :	remove	inc4w1
R2ADJ -.5116512 :	remove	cataw3
R2ADJ -.5167089 :	remove	movew2
R2ADJ -.5087967 :	remove	mhlthw2
R2ADJ -.512084 :	remove	goferw2
R2ADJ -.5174587 :	remove	fdferw2
R2ADJ -.5152679 :	remove	ncontw3
R2ADJ -.5187146 :	remove	pillw3
R2ADJ -.5071239 :	remove	liqw1
R2ADJ -.5181492 :	remove	liqw2
R2ADJ -.5101334 :	remove	WHPel
R2ADJ -.5176362 :	remove	WHPpa
R2ADJ -.4059773 :	remove	radchw3
R2ADJ -.4815466 :	remove	carcin

```

Stage 15 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw23 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2
> fdferw2 ncontw3 liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5187146

```

R2ADJ -.5102473 :	remove	ecprw1
R2ADJ -.5150483 :	remove	polprw1
R2ADJ -.5186176 :	remove	airw1
R2ADJ -.4918644 :	remove	radchw1
R2ADJ -.5084222 :	remove	dauthw3
R2ADJ -.5174301 :	remove	HP2vacatn
R2ADJ -.5194757 :	remove	shhousw1
R2ADJ -.4897972 :	remove	illw2
R2ADJ -.5199358 :	remove	emplw23
R2ADJ -.5176049 :	remove	emplw12
R2ADJ -.5199358 :	remove	emplw23
R2ADJ -.5091498 :	remove	emplw24
R2ADJ -.5142853 :	remove	inc4w1

R2ADJ	-.5134246	:	remove	cataw3
R2ADJ	-.5182712	:	remove	movew2
R2ADJ	-.51064	:	remove	mhlthw2
R2ADJ	-.5133748	:	remove	goferw2
R2ADJ	-.518763	:	remove	fdferw2
R2ADJ	-.5168678	:	remove	ncontw3
R2ADJ	-.5085901	:	remove	liqw1
R2ADJ	-.5194196	:	remove	liqw2
R2ADJ	-.5115573	:	remove	WHPel
R2ADJ	-.5189137	:	remove	WHPpa
R2ADJ	-.4083295	:	remove	radchw3
R2ADJ	-.4824531	:	remove	carcin

```

Stage 16 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3
> liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5199358

```

R2ADJ	-.5110545	:	remove	ecprw1
R2ADJ	-.5159623	:	remove	polprw1
R2ADJ	-.5197024	:	remove	airw1
R2ADJ	-.4926687	:	remove	radchw1
R2ADJ	-.5091768	:	remove	dauthw3
R2ADJ	-.5181004	:	remove	HP2vacatn
R2ADJ	-.5207687	:	remove	shhousw1
R2ADJ	-.4902568	:	remove	illw2
R2ADJ	-.5193325	:	remove	emplw12
R2ADJ	-.5102487	:	remove	emplw24
R2ADJ	-.5159762	:	remove	inc4w1
R2ADJ	-.5146363	:	remove	cataw3
R2ADJ	-.519358	:	remove	movew2
R2ADJ	-.5123598	:	remove	mhlthw2
R2ADJ	-.514834	:	remove	goferw2
R2ADJ	-.5201204	:	remove	fdferw2
R2ADJ	-.5178471	:	remove	ncontw3
R2ADJ	-.5103478	:	remove	liqw1
R2ADJ	-.5207136	:	remove	liqw2
R2ADJ	-.5123989	:	remove	WHPel
R2ADJ	-.5200865	:	remove	WHPpa
R2ADJ	-.4104722	:	remove	radchw3
R2ADJ	-.4831667	:	remove	carcin

```

Stage 17 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 liqw1 l
> iqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5207687

```

R2ADJ	-.5096372	:	remove	ecprw1
R2ADJ	-.516767	:	remove	polprw1
R2ADJ	-.5206391	:	remove	airw1
R2ADJ	-.4943353	:	remove	radchw1

R2ADJ	-.5090403	:	remove	dauthw3
R2ADJ	-.5188907	:	remove	HP2vacatn
R2ADJ	-.4908856	:	remove	illw2
R2ADJ	-.5203158	:	remove	emplw12
R2ADJ	-.5110138	:	remove	emplw24
R2ADJ	-.5163403	:	remove	inc4w1
R2ADJ	-.5155135	:	remove	cataw3
R2ADJ	-.5203672	:	remove	movew2
R2ADJ	-.5123896	:	remove	mhlthw2
R2ADJ	-.5145379	:	remove	goferw2
R2ADJ	-.521053	:	remove	fdferw2
R2ADJ	-.5187185	:	remove	ncontw3
R2ADJ	-.5108934	:	remove	liqw1
R2ADJ	-.5215418	:	remove	liqw2
R2ADJ	-.5133493	:	remove	WHPel
R2ADJ	-.5211389	:	remove	WHPpa
R2ADJ	-.4128883	:	remove	radchw3
R2ADJ	-.4842653	:	remove	carcin

```

Stage 18 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 liqw1 W
> HPel WHPpa radchw3 carcin : R2ADJ -.5215418

```

R2ADJ	-.5100194	:	remove	ecprw1
R2ADJ	-.5169247	:	remove	polprw1
R2ADJ	-.5211714	:	remove	airw1
R2ADJ	-.495795	:	remove	radchw1
R2ADJ	-.5103074	:	remove	dauthw3
R2ADJ	-.5193987	:	remove	HP2vacatn
R2ADJ	-.4915248	:	remove	illw2
R2ADJ	-.5203846	:	remove	emplw12
R2ADJ	-.5121895	:	remove	emplw24
R2ADJ	-.517335	:	remove	inc4w1
R2ADJ	-.5160296	:	remove	cataw3
R2ADJ	-.5212391	:	remove	movew2
R2ADJ	-.513234	:	remove	mhlthw2
R2ADJ	-.5149382	:	remove	goferw2
R2ADJ	-.5216943	:	remove	fdferw2
R2ADJ	-.5197431	:	remove	ncontw3
R2ADJ	-.5105423	:	remove	liqw1
R2ADJ	-.5144383	:	remove	WHPel
R2ADJ	-.5219	:	remove	WHPpa
R2ADJ	-.4141008	:	remove	radchw3
R2ADJ	-.4856986	:	remove	carcin

```

Stage 19 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 liqw1 W
> HPel radchw3 carcin : R2ADJ -.5219

```

R2ADJ	-.5112158	:	remove	ecprw1
R2ADJ	-.517489	:	remove	polprw1
R2ADJ	-.5217615	:	remove	airw1
R2ADJ	-.4958332	:	remove	radchw1
R2ADJ	-.5095487	:	remove	dauthw3
R2ADJ	-.5208161	:	remove	HP2vacatn
R2ADJ	-.4931951	:	remove	illw2
R2ADJ	-.5209425	:	remove	emplw12
R2ADJ	-.5126214	:	remove	emplw24
R2ADJ	-.5178215	:	remove	inc4w1
R2ADJ	-.5166807	:	remove	cataw3
R2ADJ	-.5215694	:	remove	movew2
R2ADJ	-.5139091	:	remove	mhlthw2
R2ADJ	-.5162808	:	remove	goferw2
R2ADJ	-.5225309	:	remove	fdferw2
R2ADJ	-.519971	:	remove	ncontw3
R2ADJ	-.5120502	:	remove	liqw1
R2ADJ	-.5164093	:	remove	WHPel
R2ADJ	-.4162271	:	remove	radchw3
R2ADJ	-.4850994	:	remove	carcin

```

Stage 20 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 ncontw3 liqw1 WHPel r
> adchw3 carcin : R2ADJ -.5225309

```

R2ADJ	-.512453	:	remove	ecprw1
R2ADJ	-.5186693	:	remove	polprw1
R2ADJ	-.5221636	:	remove	airw1
R2ADJ	-.4966632	:	remove	radchw1
R2ADJ	-.5107767	:	remove	dauthw3
R2ADJ	-.5214388	:	remove	HP2vacatn
R2ADJ	-.4951153	:	remove	illw2
R2ADJ	-.521202	:	remove	emplw12
R2ADJ	-.5133662	:	remove	emplw24
R2ADJ	-.5180692	:	remove	inc4w1
R2ADJ	-.5172593	:	remove	cataw3
R2ADJ	-.5221104	:	remove	movew2
R2ADJ	-.5150956	:	remove	mhlthw2
R2ADJ	-.5178928	:	remove	goferw2
R2ADJ	-.5209067	:	remove	ncontw3
R2ADJ	-.5124306	:	remove	liqw1
R2ADJ	-.5175416	:	remove	WHPel
R2ADJ	-.4148192	:	remove	radchw3
R2ADJ	-.4868809	:	remove	carcin

Final Model

Source	SS	df	MS	Number of obs =	266
Model	163811.849	19	8621.67626	F(19, 246) =	16.26
Residual	130409.204	246	530.118714	Prob > F =	0.0000
				R-squared =	0.5568
				Adj R-squared =	0.5225
Total	294221.053	265	1110.26812	Root MSE =	23.024

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ecprw1	.1254988	.0503471	2.49	0.013	.0263324	.2246653
polprw1	.0941924	.0544032	1.73	0.085	-.0129631	.2013479
airw1	.0601755	.0551626	1.09	0.276	-.0484757	.1688267
radchw1	-.2099751	.0553686	-3.79	0.000	-.319032	-.1009181
dauthw3	.1156282	.0434539	2.66	0.008	.0300391	.2012173
HP2vacatn	5.402456	4.318603	1.25	0.212	-3.103699	13.90861
illw2	6.56711	1.685405	3.90	0.000	3.247445	9.886776
emplw12	4.558075	3.508865	1.30	0.195	-2.353176	11.46933
emplw24	-56.58483	23.61595	-2.40	0.017	-103.1001	-10.06958
inc4w1	-10.86351	5.97285	-1.82	0.070	-22.62796	.9009356
cataw3	33.26305	17.22973	1.93	0.055	-.6735585	67.19966
movew2	-4.660553	4.223784	-1.10	0.271	-12.97995	3.658839
mhlthw2	-.1853882	.084212	-2.20	0.029	-.3512568	-.0195196
goferw2	.1570533	.085182	1.84	0.066	-.0107259	.3248324
ncontw3	-4.512832	3.326704	-1.36	0.176	-11.06529	2.039624
liqw1	3.136153	1.25698	2.49	0.013	.660337	5.61197
WHPel	.0911958	.0481917	1.89	0.060	-.0037251	.1861167
radchw3	.4378951	.0581434	7.53	0.000	.3233727	.5524175
carcin	.2345435	.0531926	4.41	0.000	.1297725	.3393146
_cons	23.41992	11.95145	1.96	0.051	-.120309	46.96014

```

209 .
210 .
211 . subtitle "full factor analytic model with level of measurement assumption vi
> olation"

```

```

Date and time: 26 Apr 2012 12:44:12
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta

data file has 2196 variables
and 363 observations

```

full factor analytic model with level of measurement assumption violation

```

212 . factor trgowl ecprwl polprwl airwl radchw1 dauthw3 healthef HP2vacatn ///
> shhouswl trrepwl childwl radtlwl illw2 emplw23 emplw12 emplw13 emplw16 em
> plw23 ///
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
>   carcin , factors(7)
(obs=266)
(collinear variables specified)

```

Factor analysis/correlation	Number of obs	=	266
Method: principal factors	Retained factors	=	7
Rotation: (unrotated)	Number of params	=	259

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.56524	1.65984	0.2195	0.2195
Factor2	2.90541	0.42880	0.1397	0.3592
Factor3	2.47661	0.43236	0.1191	0.4782
Factor4	2.04424	0.39393	0.0983	0.5765
Factor5	1.65031	0.39250	0.0793	0.6558
Factor6	1.25781	0.04645	0.0605	0.7163
Factor7	1.21136	0.10961	0.0582	0.7745
Factor8	1.10175	0.06203	0.0530	0.8275
Factor9	1.03972	0.03066	0.0500	0.8775
Factor10	1.00907	0.15337	0.0485	0.9260
Factor11	0.85570	0.14851	0.0411	0.9671
Factor12	0.70719	0.15413	0.0340	1.0011
Factor13	0.55306	0.15174	0.0266	1.0277
Factor14	0.40131	0.05665	0.0193	1.0470
Factor15	0.34466	0.02292	0.0166	1.0636
Factor16	0.32174	0.09473	0.0155	1.0791
Factor17	0.22701	0.06590	0.0109	1.0900
Factor18	0.16111	0.01402	0.0077	1.0977
Factor19	0.14709	0.07210	0.0071	1.1048
Factor20	0.07498	0.01218	0.0036	1.1084
Factor21	0.06280	0.02269	0.0030	1.1114
Factor22	0.04011	0.02647	0.0019	1.1133
Factor23	0.01364	0.01364	0.0007	1.1140
Factor24	0.00000	0.00487	0.0000	1.1140
Factor25	-0.00487	0.00900	-0.0002	1.1138
Factor26	-0.01387	0.01764	-0.0007	1.1131
Factor27	-0.03150	0.01686	-0.0015	1.1116
Factor28	-0.04837	0.04856	-0.0023	1.1093

Factor29	-0.09693	0.00946	-0.0047	1.1046
Factor30	-0.10638	0.02248	-0.0051	1.0995
Factor31	-0.12886	0.02676	-0.0062	1.0933
Factor32	-0.15561	0.00822	-0.0075	1.0858
Factor33	-0.16384	0.01473	-0.0079	1.0779
Factor34	-0.17856	0.01058	-0.0086	1.0693
Factor35	-0.18914	0.02244	-0.0091	1.0603
Factor36	-0.21158	0.02518	-0.0102	1.0501
Factor37	-0.23676	0.00686	-0.0114	1.0387
Factor38	-0.24362	0.02032	-0.0117	1.0270
Factor39	-0.26394	0.03346	-0.0127	1.0143
Factor40	-0.29740	.	-0.0143	1.0000

LR test: independent vs. saturated: chi2(780) = . Prob>chi2 = .

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Uniqueness					
trgovw1	0.3796	0.2246	-0.0068	-0.1754	-0.1050	0.0736
-0.5150	0.4929					
ecprw1	0.4676	0.1928	-0.2126	0.0352	-0.0158	0.0431
0.0624	0.6918					
polprw1	0.3379	0.0089	-0.4387	0.1271	0.0964	0.0614
0.1568	0.6395					
airw1	0.2719	-0.0622	-0.4056	0.1958	0.1270	0.0229
0.2887	0.6194					
radchw1	0.4418	-0.2128	-0.5747	0.0102	0.1572	-0.1748
0.0264	0.3732					
dauthw3	0.1118	0.0777	-0.2238	0.0272	-0.0084	-0.0746
0.0866	0.9175					
healthef	0.5235	0.2884	0.2956	-0.3929	0.5610	-0.0744
0.0094	0.0806					
HP2vacatn	0.3488	0.0507	0.1473	0.3783	-0.0721	-0.2850
-0.1565	0.6000					
shhousw1	0.3421	0.1279	-0.0047	-0.0002	-0.2120	-0.0307
0.1192	0.8065					
trrepw1	0.3944	0.1268	-0.0628	-0.1492	-0.2781	0.1065
-0.5164	0.4468					
childw1	0.4200	-0.3447	0.1411	0.1266	0.0329	0.1326
-0.0519	0.6475					
radtlw1	0.3457	-0.1069	-0.5952	0.0121	0.1370	-0.1634
0.0171	0.4689					
illw2	0.2095	-0.0078	0.3547	0.0554	0.0820	0.0874
-0.0426	0.8110					

	emplw23	-0.0048	0.6577	-0.0727	0.6158	0.2818	0.2718
>	-0.0808	0.0231					
	emplw12	0.2810	-0.7767	0.1017	0.1202	0.1944	0.4294
>	-0.1528	0.0475					
	emplw13	-0.1049	0.2655	-0.0423	0.2356	-0.2607	-0.1459
>	0.1492	0.7497					
	emplw16	-0.2642	0.6928	-0.0733	-0.2626	-0.0482	-0.3437
>	0.0846	0.2482					
	emplw23	-0.0048	0.6577	-0.0727	0.6158	0.2818	0.2718
>	-0.0808	0.0231					
	emplw24	-0.0367	0.0113	-0.0565	-0.0995	0.0962	-0.0933
>	-0.0955	0.9584					
	inc4w1	-0.0981	-0.0866	0.1816	0.1726	0.0426	0.2053
>	0.0638	0.8721					
	deaw1	0.3613	-0.0108	-0.1100	-0.0174	-0.0107	0.0133
>	0.0102	0.8565					
	cataw3	0.0676	0.0278	-0.0177	-0.0743	-0.1665	-0.0092
>	-0.0804	0.9546					
	movew2	-0.1261	0.1604	0.0956	-0.1096	-0.0997	0.0381
>	0.0385	0.9243					
	mhlthw2	-0.1921	0.1352	-0.1245	-0.1095	0.0977	0.1485
>	-0.1608	0.8599					
	goferw1	0.6386	0.0333	0.0336	-0.1376	-0.1689	0.1232
>	0.1553	0.5032					
	goferw2	0.4616	0.2497	0.0790	-0.1767	-0.3794	0.2243
>	0.0944	0.4840					
	fdferw1	0.6238	0.1166	0.0323	-0.0858	-0.2327	0.1744
>	0.2848	0.4232					
	fdferw2	0.4162	0.3502	0.1433	-0.1105	-0.3255	0.2699
>	0.2205	0.4440					
	ncontw3	0.1600	-0.0828	0.1548	0.1056	-0.0879	-0.1580
>	-0.0094	0.8996					
	pillw1	0.2868	-0.0346	-0.0502	0.1081	-0.1417	0.0257
>	0.1424	0.8613					
	pillw3	0.1430	-0.1703	0.0469	0.2584	-0.0732	-0.0293
>	0.0064	0.8753					
	smokw1	-0.0441	-0.1722	0.0565	0.0305	0.0077	0.0503
>	0.1025	0.9512					
	liqw1	0.1583	-0.1876	0.4480	0.0491	0.2000	0.0009
>	0.2585	0.6298					
	liqw2	-0.0306	0.0009	0.4688	0.0123	0.1391	-0.0608
>	0.2707	0.6828					
	WHPel	0.3518	0.0089	0.3426	0.2707	-0.0750	-0.2831
>	0.0021	0.5997					
	WHPpa	0.4777	-0.1072	0.2327	0.3147	-0.0599	-0.2912
>	-0.0895	0.5107					
	HP2probsoc	0.4771	-0.0359	0.2788	0.3043	-0.0909	-0.3155
>	-0.2125	0.4478					
	radchw3	0.4888	-0.0841	-0.3832	-0.1856	0.1670	-0.0443

```
213 . // 7 factors account for 77.45% of the common variance
214 .
215 . rotate, blanks(.36)
```

Factor analysis/correlation	Number of obs	=	266
Method: principal factors	Retained factors	=	7
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	259

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.75387	0.24321	0.1324	0.1324
Factor2	2.51066	0.04888	0.1207	0.2531
Factor3	2.46178	0.06393	0.1184	0.3714
Factor4	2.39785	0.12725	0.1153	0.4867
Factor5	2.27060	0.06832	0.1092	0.5959
Factor6	2.20228	0.68832	0.1059	0.7018
Factor7	1.51396	.	0.0728	0.7745

LR test: independent vs. saturated: $\chi^2(780) = \quad . \text{ Prob} > \chi^2 = \quad .$

Rotated factor loadings (pattern matrix) and unique variances

	Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
	Factor7	Uniqueness					
	trgovw1						
	0.6460	0.4929					
	ecprw1						
		0.6918					
	polprw1	0.5393					
		0.6395					
	airw1	0.5257					
		0.6194					
	radchw1	0.7685					
		0.3732					
	dauthw3						
		0.9175					

	healthef		0.9485	
>		0.0806		
	HP2vacatn			0.5997
>		0.6000		
	shhousw1		0.3734	
>		0.8065		
	trrepw1			
>	0.6876	0.4468		
	childw1			0.4920
>		0.6475		
	radtlw1		0.7240	
>		0.4689		
	illw2			
>		0.8110		
	emplw23			0.9816
>		0.0231		
	emplw12			0.9596
>		0.0475		
	emplw13			
>		0.7497		
	emplw16			-0.8381
>		0.2482		
	emplw23			0.9816
>		0.0231		
	emplw24			
>		0.9584		
	inc4w1			
>		0.8721		
	deaw1			
>		0.8565		
	cataw3			
>		0.9546		
	movew2			
>		0.9243		
	mhlthw2			
>		0.8599		
	goferw1		0.5865	
>		0.5032		
	goferw2		0.6723	
>		0.4840		
	fdferw1		0.7010	
>		0.4232		
	fdferw2		0.7110	
>		0.4440		
	ncontw3			
>		0.8996		
	pillw1			
>		0.8613		
	pillw3			

```

>      |      0.8753
>      smokw1 |
>      |      0.9512
>      liqw1 |
>      |      0.6298
>      liqw2 |
> -0.3618 |      0.6828
>      WHPel |      0.5985
>      |      0.5997
>      WHPpa |      0.6593
>      |      0.5107
> HP2probsoc |      0.7037
>      |      0.4478
>      radchw3 |      0.5621
>      |      0.5376
>      Havmil |
>      |      0.8451
>      carcin |      0.9480
>      |      0.0807
> _____
> _____
> (blanks represent abs(loading)<.36)

```

Factor rotation matrix

```

> _____
> _____
> r7 | Factor1  Factor2  Factor3  Factor4  Factor5  Factor6  Factor7
> _____
> _____
> Factor1 | 0.4257  0.5602  0.4449  0.2719  0.4361  0.0016  0.20
> 72      |
> Factor2 | -0.1268  0.2408  0.2395 -0.7012 -0.0762  0.5847  0.17
> 12      |
> Factor3 | -0.8375  0.0772  0.3260  0.1429  0.3690 -0.0831 -0.15
> 15      |
> Factor4 | 0.0561 -0.1106 -0.4412  0.2355  0.5000  0.6550 -0.23
> 53      |
> Factor5 | 0.1860 -0.5313  0.6623  0.2145 -0.1794  0.3020 -0.27
> 39      |
> Factor6 | -0.2249  0.3850 -0.0711  0.5395 -0.6034  0.3510  0.13
> 32      |
> Factor7 | 0.1142  0.4236 -0.0037 -0.1468 -0.1466 -0.0886 -0.86
> 99      |
> _____
> _____

```

```

216 .
217 . // items with missing values are dropped
218 . /*pwcrr trgowl ecprwl polprwl airwl radchw1 dauthw3 healthef HP2vacatn //
> /
> shhousw1 trrepw1 childw1 radtlw1 emplw23 emplw12 emplw13 emplw16 emplw23 /
> //
> emplw24 inc4w1 deaw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, sig obs
> */
219 .
220 . des trgowl ecprwl polprwl airwl radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 ///
> movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> pillw3 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin

```

variable name	storage type	display format	value label	variable label
trgowl	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprwl	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprwl	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airwl	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
healthef	byte	%8.0g		* a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative

				radiation exposed to in a lifetime in 1986
movew2	byte	%8.0g		Total number of moves experienced in time period 1987-1996
mhlthw2	byte	%8.0g		level of general psychological/mental health in 1996
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
goferw2	byte	%8.0g		level of fear in percent from going outdoors in 1987-1996
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 198
pillw3	byte	%8.0g		number of pills for pain per week in 1997-now
liqw2	byte	%8.0g		number of spirits per week in 1987-1996
WHPel	float	%9.0g		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	float	%9.0g		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth causing probs with social life
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
Havmil	float	%9.0g		Distance from Chornobyl in miles
carcin	byte	%8.0g		* a person exposed to carcinogen is likely to get cancer (% of agreement)

221 .

222 . subtitle "Polychoric correlation input to female radfmw3 factor analysis of
> waves 1 2 and 3"

```

Date and time: 26 Apr 2012    12:44:14
Stata version: 12.1
Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
    using 33554432 bytes of memory
    Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
    Stata data file: chwide22apr2012female
> s.dta
    data file has 2196 variables

```

and 363 observations

Polychoric correlation input to female radfmw3 factor analysis of waves 1 2 and 3

```
223 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn
> n ///
> shhousw1 trrepw1 childw1 radtlw1 ///
> movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> pillw3 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin
```

Polychoric correlation matrix

	trgovw1	ecprw1	polprw1	airw1	radchw1	dauthw3	healthef	HP2vacatn	shhousw1	trrepw1	childw1	radtlw1	movew2	mhlthw2	goferw1	goferw2	fdferw1	fdferw2	pillw3
> trgovw1	1																		
> ecprw1	.28859277	1																	
> polprw1	.11801945	.3928653	1																
> airw1	-.03161785	.3894387	.61122023	1															
> radchw1	.04166414	.13477172	.34660255	.28189324	1														
> dauthw3	.08167052	.12677604	.08015559	.07477056	.20314918	1													
> healthef	.25442484	.19766103	.04033379	.01429384	.0806502	-.0207	1												
> HP2vacatn	.16513508	.15028258	.11272925	.03146053	.19567907	.0014	.07009103	1											
> shhousw1	.14309352	.32199476	.12630359	.1053291	.07700469	.1345	.10113147	.15386047	1										
> trrepw1	.68869281	.2221981	.11544428	-.01571451	.09005529	.0623	.1005603	.14016015	.19651434	1									
> childw1	.09334401	.24329379	.1719435	.11280561	.13960761	-.0050	.13307373	.19540017	.1356385	.11280561	1								
> radtlw1	.04919999	.17835437	.27321118	.24832092	.70576801	.2520	.04973925	.1263297	.05080114	.11280561	.13960761	1							
> movew2	.09182652	-.20547066	-.07083791	-.06204363	-.22715104	-.1132	.09182652	-.20547066	-.07083791	-.06204363	-.22715104	-.1132	1						
> mhlthw2	.06946725	-.01854396	-.06640915	-.14422791	-.03638281	.0591	.06946725	-.01854396	-.06640915	-.14422791	-.03638281	.0591	-.06640915	1					
> goferw1	.18220139	.24784855	.10729205	.05449081	.23602673	.1115	.18220139	.24784855	.10729205	.05449081	.23602673	.1115	.05449081	.23602673	1				
> goferw2	.20418621	.23584373	.01762824	.00308118	.03191754	-.0141	.20418621	.23584373	.01762824	.00308118	.03191754	-.0141	.00308118	.03191754	-.0141	1			
> fdferw1	.1175841	.25403045	.19231927	.11373535	.21019865	.1375	.1175841	.25403045	.19231927	.11373535	.21019865	.1375	.11373535	.21019865	.1375	.19231927	1		
> fdferw2	.14152777	.22559114	.08167114	.01352264	-.02163182	.0290	.14152777	.22559114	.08167114	.01352264	-.02163182	.0290	.01352264	-.02163182	.0290	.08167114	.01352264	1	
> pillw3	.00696819	-.06166724	.04523843	.08531672	.06883702	-.0096	.00696819	-.06166724	.04523843	.08531672	.06883702	-.0096	.08531672	.06883702	-.0096	.04523843	.08531672	.06883702	1

```

> 7799 -.04349494 .17694247 .04163556
      liqw2 -.03862569 -.12806617 -.21996792 -.15890456 -.23113272 .0324
> 6814 .18765144 -.03789597 .00429827
      WHPel .03610819 .04887979 -.07491078 -.03956261 -.01070668 .01
> 5009 .18341958 .44806923 .13572413
      WHPpa .12368728 .17998984 .10527756 .12295099 .13510987 -.0609
> 9581 .11343135 .49768441 .18999759
HP2probsoc .21440158 .17609535 -.00657573 .00877428 .14881776 -.0910
> 1339 .2684481 .82500881 .09855659
      radchw3 .12763238 .19079393 .22046608 .14226822 .62778158 .079
> 7472 .24859923 .06902496 .03800995
      Havmil .07130262 -.05311769 -.09332771 -.14694944 -.17810989 -.1437
> 9213 .08019806 -.05670042 -.04625728
      carcin .25997453 .20573416 .05174142 .01673589 .09026124 -.0184
> 7693 .9923397 .06335885 .09745947

      trrepw1      childw1      radtlw1      movew2      mhlthw2      gof
> erwl      goferw2      fdferw1      fdferw2
      trrepw1      1
      childw1      .13856382      1
      radtlw1      .06813526      .0998403      1
      movew2      -.09828649      -.20480689      -.29683171      1
      mhlthw2      .02431863      -.16763105      -.01453582      -.03388494      1
      goferw1      .25275289      .26507402      .16606021      -.16991088      -.0108195
>      1
      goferw2      .26124384      .12835047      .06427539      .13439966      -.04983399      .4145
> 9995      1
      fdferw1      .18261871      .19881901      .14487332      -.09325263      -.1009811      .7059
> 5182      .39529023      1
      fdferw2      .18128435      .03096658      -.01042525      .14342739      -.11455515      .3143
> 2805      .62657717      .53654942      1
      pillw3      .04557374      .09182869      -.0296717      -.41850999      -.14224143      -.0063
> 7678 -.00539128 -.01917617 -.0020618
      liqw2 -.1231931 .03413774 -.25972075 .12014926 .01367211 .0981
> 7949 -.0618692 .0480406 .02381149
      WHPel .0640612 .21420758 -.07404251 .01201938 -.33116739 .1461
> 6235 .09766643 .23141275 .16662611
      WHPpa .12199503 .37007776 .08548527 -.08357679 -.19643422 .1814
> 3421 .16461507 .17682788 .06022856
HP2probsoc .23150791 .37474634 .05276879 -.22158369 -.14924655 .3193
> 8486 .16185376 .29611015 .13301171
      radchw3 .15226495 .15685941 .50026176 -.11102746 .04722786 .3077
> 4694 .20933389 .23353496 .07660773
      Havmil .08423715 -.05523818 -.20185284 .23108569 .04684673 -.0818
> 5322 .17219091 -.01053957 .18116714
      carcin .10771753 .14381933 .05818175 -.05690067 -.07649724 .266
> 3634 .18169685 .23753168 .21509858

```

```

                pillw3      liqw2      WHPel      WHPpa      HP2probsoc      rad
> chw3      Havmil      carcin
    pillw3      1
    liqw2      -.03629435      1
    WHPel      .09616168      .11917044      1
    WHPpa      .13558619      .06196506      .50995347      1
HP2probsoc      .17552845      .13158997      .58126823      .60920643      1
    radchw3      .03896238      -.15367164      -.01806647      .14775872      .21203563
>      1
    Havmil      -.0614773      .04816902      -.27131422      -.06395478      -.20535273      .0195
> 6795      1
    carcin      -.05035509      .181311      .1907086      .11203093      .26805762      .2578
> 2604      .08130166      1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	4.882889	0.187803	0.187803
2	2.783410	0.107054	0.294858
3	2.434777	0.093645	0.388503
4	1.770348	0.068090	0.456593
5	1.575893	0.060611	0.517204
6	1.492183	0.057392	0.574596
7	1.269746	0.048836	0.623432
8	1.218453	0.046864	0.670296
9	1.052770	0.040491	0.710787
10	0.913185	0.035123	0.745910
11	0.884968	0.034037	0.779947
12	0.830939	0.031959	0.811906
13	0.718074	0.027618	0.839524
14	0.623982	0.023999	0.863524
15	0.558806	0.021493	0.885016
16	0.509310	0.019589	0.904605
17	0.452251	0.017394	0.921999
18	0.435393	0.016746	0.938745
19	0.357496	0.013750	0.952495
20	0.328990	0.012653	0.965149
21	0.286583	0.011022	0.976171
22	0.231967	0.008922	0.985093
23	0.191760	0.007375	0.992468
24	0.153058	0.005887	0.998355
25	0.035848	0.001379	0.999734
26	0.006923	0.000266	1.000000

```
224 . matrix define mypchor123f=r(R)
```

```
225 . factormat mypchor123f, n(363) factors(8) blanks(.36)
      (obs=363)
```

```
Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)
Number of obs      =      363
Retained factors   =       8
Number of params   =     180
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.55909	2.15462	0.2989	0.2989
Factor2	2.40447	0.28300	0.1576	0.4566
Factor3	2.12147	0.56638	0.1391	0.5957
Factor4	1.55509	0.38772	0.1020	0.6976
Factor5	1.16738	0.08912	0.0765	0.7742
Factor6	1.07825	0.23879	0.0707	0.8449
Factor7	0.83946	0.16556	0.0550	0.8999
Factor8	0.67390	0.13473	0.0442	0.9441
Factor9	0.53917	0.08407	0.0354	0.9794
Factor10	0.45510	0.12193	0.0298	1.0093
Factor11	0.33318	0.03442	0.0218	1.0311
Factor12	0.29876	0.10722	0.0196	1.0507
Factor13	0.19154	0.07642	0.0126	1.0633
Factor14	0.11511	0.04815	0.0075	1.0708
Factor15	0.06696	0.03310	0.0044	1.0752
Factor16	0.03386	0.03379	0.0022	1.0774
Factor17	0.00007	0.01123	0.0000	1.0774
Factor18	-0.01116	0.01950	-0.0007	1.0767
Factor19	-0.03066	0.03391	-0.0020	1.0747
Factor20	-0.06456	0.02764	-0.0042	1.0705
Factor21	-0.09220	0.02537	-0.0060	1.0644
Factor22	-0.11758	0.04731	-0.0077	1.0567
Factor23	-0.16488	0.03062	-0.0108	1.0459
Factor24	-0.19551	0.02073	-0.0128	1.0331
Factor25	-0.21624	0.07186	-0.0142	1.0189
Factor26	-0.28811	.	-0.0189	1.0000

```
LR test: independent vs. saturated: chi2(325) = 5426.41 Prob>chi2 = 0.0000
```

```
Factor loadings (pattern matrix) and unique variances
```

>	Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
	Factor7	Factor8	Uniqueness				
>							
>	trgovw1	0.3867				0.6242	
>			0.3338				
>	ecprw1	0.4792					
>			0.5487				
>	polprw1		-0.4775				0.4560
>			0.4300				
>	airw1		-0.4486				0.4924
>			0.4658				
>	radchw1	0.4357	-0.6285				
>			0.2875				
>	dauthw3						
>			0.8284				
>	healthef	0.5270	0.3721	0.3846	-0.6313		
>			0.0196				
>	HP2vacatn	0.5486		-0.5814			
>			0.2576				
>	shhousw1						
>			0.7738				
>	trrepw1	0.4023				0.5772	
>			0.3684				
>	childw1	0.4149					
>			0.7727				
>	radtlw1		-0.6344				
>			0.3691				
>	movew2						
>	0.5317		0.3535				
>	mhlthw2						
>			0.8332				
>	goferw1	0.6138					
>			0.3826				
>	goferw2	0.4451			0.3832		
>			0.4532				
>	fdferw1	0.6124					
>			0.3215				
>	fdferw2	0.4105			0.3723		
>			0.4301				
>	pillw3						
>	-0.3924		0.6613				
>	liqw2		0.3989				
>			0.7636				
>	WHPel	0.4182		-0.4533			
>			0.4419				
>	WHPpa	0.5054		-0.4272			

```

>
>      HP2probsoc |      0.5082
>      |      0.6980      -0.5792
>      radchw3 |      0.0773
>      |      0.4757      -0.3786
>      |      0.3841
>      Havmil |
>      -0.4320 |      0.5190
>      carcin |      0.5325      0.3612      0.3887      -0.6331
>      |      0.0161
>
>
> (blanks represent abs(loading)<.36)

```

```
226 . rotate, blanks(.36)
```

```

Factor analysis/correlation
Method: principal factors
Rotation: orthogonal varimax (Kaiser off)
Number of obs   =    363
Retained factors =     8
Number of params =   180

```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.82889	0.57726	0.1855	0.1855
Factor2	2.25163	0.02431	0.1476	0.3331
Factor3	2.22733	0.06074	0.1460	0.4791
Factor4	2.16659	0.58846	0.1421	0.6212
Factor5	1.57812	0.10281	0.1035	0.7247
Factor6	1.47531	0.43449	0.0967	0.8214
Factor7	1.04082	0.21039	0.0682	0.8896
Factor8	0.83043	.	0.0544	0.9441

```
LR test: independent vs. saturated: chi2(325) = 5426.41 Prob>chi2 = 0.0000
```

```
Rotated factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Factor8	Uniqueness				
trgovw1						0.7776
	0.3338					
ecprw1				0.5133		
	0.5487					
polprw1				0.6990		
	0.4300					
airw1				0.6992		
	0.4658					

	radchw1			0.8103
>			0.2875	
	dauthw3			
>			0.8284	
	healthef		0.9791	
>			0.0196	
	HP2vacatn	0.8382		
>			0.2576	
	shhousw1			
>			0.7738	
	trrepw1			0.7571
>			0.3684	
	childw1			
>			0.7727	
	radtlw1			0.7608
>			0.3691	
	movew2			
>	0.7615		0.3535	
	mhlthw2			
>			0.8332	
	goferw1			0.6646
>			0.3826	
	goferw2			0.6351
>			0.4532	
	fdferw1			0.7676
>			0.3215	
	fdferw2			0.6789
>			0.4301	
	pillw3			
>	-0.5109		0.6613	
	liqw2			
>			0.7636	
	WHPel	0.6564		
>			0.4419	
	WHPpa	0.6719		
>			0.5082	
	HP2probsoc	0.9142		
>			0.0773	
	radchw3			0.7165
>			0.3841	
	Havmil			
>	0.6201		0.5190	
	carcin		0.9803	
>			0.0161	

(blanks represent abs(loading)<.36)

Factor rotation matrix

		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6	Factor7	Factor8
>	Factor1	0.5604	0.4087	0.4950	0.3438	0.2663	0.2654	-0.11	
>	Factor2	0.2532	0.3725	0.1745	-0.7114	-0.4247	0.0395	0.24	
>	Factor3	-0.7490	0.3997	0.3421	0.1205	0.0565	0.2418	0.22	
>	Factor4	0.0295	-0.7116	0.5093	-0.2167	0.1588	0.3139	0.19	
>	Factor5	0.0629	0.0012	-0.4794	0.0351	-0.1356	0.8415	-0.09	
>	Factor6	0.0064	0.1661	-0.2729	-0.4249	0.8332	0.0149	0.15	
>	Factor7	0.2362	-0.0187	-0.2070	0.3613	-0.0094	-0.1557	0.75	
>	Factor8	-0.0160	-0.0148	-0.0286	0.0445	-0.0878	0.1960	0.48	

```

227 .
228 . // we see persisting an energy level physical ability and problems with soc
> iety.
229 .
230 . di "female sample size = ",_N
    female sample size = 363

231 . di c(filename)
    chwide22apr2012females.dta

```

232 . tab gender

respondent's gender	Freq.	Percent	Cum.
2. female	363	100.00	100.00
Total	363	100.00	

233 .

234 . save chwide22apr2012females, replace
file chwide22apr2012females.dta saved

235 .

236 . di "{hline}"

237 .

238 . use chwide22apr2012males, clear
(OxMetrics data)

239 . label data "Male respondents post-Chornobyl study"

240 . title(General Male factor analysis of predictors of radfmw for waves 1 2 and
> 3)

```
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```

*****                                radfmw                                *****
> *
*****                                for                                *****
> *
*****                                waves                                *****
> *
*****                                1                                *****
> *
*****                                2                                *****
> *
*****                                and                                *****
> *
*****                                3)                                *****
> *
*****                                *****
> *
*****                                *****
> *
*****                                26 Apr 2012    12:44:31    *****
> *
*****
> *
*****
> *

```

241 . subtitle "variable index"

```

                                Date and time:  26 Apr 2012    12:44:31
                                Stata version:  12.1
                                Operating system: MacOSX  10.6.8  on
>  Macintosh (Intel 64-bit)  with  4  processors
                                using  33554432 bytes of memory
                                Working directory:  /Users/robertyaffee
>  /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide22apr2012males.
>  dta
                                data file has  2179  variables
                                and  340  observations

```

variable index

```
242 . di "male sample size = ",_N
    male sample size = 340
```

```
243 . tab gender
```

respondent's gender	Freq.	Percent	Cum.
1. male	340	100.00	100.00
Total	340	100.00	

```
244 .
```

```
245 . des  trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdfew1 fdfew
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin
```

variable name	storage type	display format	value label	variable label
trgovw1	double			level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	double			consider hazardous (in percent) - economic problems in 1986
polprw1	double			consider hazardous (in percent) - political problems in 1986
airw1	double			consider hazardous (in percent) - air and water pollution in 1986
radchw1	double			believed % of polution related to chornobyl in 1986
dauthw3	double			level of danger by authorities (in percent) NOW
healthef	double			a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	double		choice1732	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	double			Percentage of strains and hassles related to housing in 1986
trrepw1	double			level of trust in

			medical/scientific reports about chornobyl in time period 197
childw1	double		number of children in 1986
radtlw1	double		believed % of cumulative radiation exposed to in a lifetime in 1986
illw2	double		Total number of illnesses experienced in time period 1987-1996
emplw12	double		emplw1==1. full time
emplw13	double		emplw1==2. part time
emplw16	double		emplw1==5. unemployed
emplw23	double		emplw2==2. part time
emplw24	double		emplw2==3. voluntary
inc4w1	double	choice117	Income allows to comfortably afford luxury items in 1986
deaw1	double		Total number of death experienced in time period 1986
cataw3	double		Total number of disasters experienced in time period 1996-NOW
movew2	double		Total number of moves experienced in time period 1987-1996
mhlthw2	double		level of general psychological/mental health in 1996
goferw1	double		level of fear in percent from going outdoors in 1976-1986
goferw2	double		level of fear in percent from going outdoors in 1987-1996
fdferw1	double		level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	double		level of fear in percent from consuming foods contaminated with radiation in 198
ncontw3	double	choice311	use of natural contraception in 1997-now
pillw1	double		number of pills for pain per week in 1976-1986
pillw3	double		number of pills for pain per week in 1997-now
smokw1	double		number of cigarettes per week in 1976-1986

liqw1	double		number of spirits per week in 1976-1986
liqw2	double		number of spirits per week in 1987-1996
WHPel	double		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	double		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	double	choice1728	Hlth profile Pt2: Hlth causing probs with social life believed % of polution related to chornobyl NOW
radchw3	double		
Havmil	double		* Distance from Chornobyl in miles
carcin	double		a person exposed to carcinogen is likely to get cancer (% of agreement)

```

246 .
247 . summ   trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
>   shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
>   emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
>   ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
>   carcin

```

Variable	Obs	Mean	Std. Dev.	Min	Max
trgovw1	306	32.92157	36.0737	0	100
ecprw1	340	27.51471	33.22698	0	100
polprw1	340	61.33529	38.49077	0	100
airw1	340	61.39706	36.32179	0	100
radchw1	340	53.09118	35.79325	0	100
dauthw3	339	52.55162	35.45427	0	100
healthef	340	66.52647	30.04553	0	100
HP2vacatn	340	.1205882	.3261281	0	1
shhousw1	340	27.86176	35.13289	0	100
trrepw1	306	37.56536	34.97827	0	100
childw1	339	.7492625	.8998476	0	3
radtlw1	339	53.52507	36.40715	0	100
illw2	340	.2823529	.5922163	0	4
emplw12	340	.6647059	.472789	0	1
emplw13	340	.1382353	.3456555	0	1
emplw16	340	.1852941	.3891086	0	1

emplw23	340	.1294118	.3361498	0	1
emplw24	340	.0029412	.0542326	0	1
inc4w1	340	.0882353	.2840548	0	1
deaw1	340	.1764706	.4960367	0	3
cataw3	340	.0088235	.0936561	0	1
movew2	340	.1558824	.4232834	0	3
mhlthw2	340	89.95	16.68608	0	100
goferw1	340	21.08824	33.32584	0	100
goferw2	340	7.3	16.74777	0	80
fdferw1	340	32.37059	39.08826	0	100
fdferw2	340	16.30882	28.1794	0	100
ncontw3	340	1.617647	.5439236	0	2
pillw1	340	.3088235	1.517424	0	20
pillw3	340	1.888235	3.962119	0	22
smokw1	338	25.61538	49.42302	0	280
liqw1	338	1.650888	2.913595	0	30
liqw2	340	2.144118	2.929827	0	30
WHPel	340	23.19059	29.99217	0	100
WHPpa	340	9.548588	14.55616	0	87.27999
HP2probsoc	340	.1205882	.3261281	0	1
radchw3	340	45.95882	33.63738	0	100
Havmil	340	77.39113	104.9596	.5469414	1181.952
carcin	340	66.19706	30.29393	0	100

248 .

```

249 . vselect radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, backward r2adj

```

39 Observations Containing Missing Predictor Values

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2
> ncontw3 pillw1 pillw3 smo : R2ADJ -.5342778

```

```

R2ADJ -.5330638 :      remove      trgovw1
R2ADJ -.5327937 :      remove      ecprw1
R2ADJ -.5247324 :      remove      polprw1
R2ADJ -.532865  :      remove      airw1
R2ADJ -.5183559 :      remove      radchw1
R2ADJ -.530206  :      remove      dauthw3
R2ADJ -.5307097 :      remove      healthef
R2ADJ -.5357409 :      remove      HP2vacatn
R2ADJ -.5306533 :      remove      shhousw1
R2ADJ -.5351611 :      remove      trrepw1
R2ADJ -.5266784 :      remove      childw1
R2ADJ -.5352005 :      remove      radtlw1
R2ADJ -.5339106 :      remove      illw2
R2ADJ -.5340767 :      remove      emplw12
R2ADJ -.5332554 :      remove      emplw13
R2ADJ -.5349325 :      remove      emplw16
R2ADJ -.5261799 :      remove      emplw23
R2ADJ -.5242205 :      remove      emplw24
R2ADJ -.5326795 :      remove      inc4w1
R2ADJ -.5359715 :      remove      deaw1
R2ADJ -.5337618 :      remove      cataw3
R2ADJ -.5335907 :      remove      movew2
R2ADJ -.5335871 :      remove      mhlthw2
R2ADJ -.5341463 :      remove      goferw1
R2ADJ -.535766  :      remove      goferw2
R2ADJ -.5337869 :      remove      fdferw1
R2ADJ -.5251443 :      remove      fdferw2
R2ADJ -.5347967 :      remove      ncontw3
R2ADJ -.5328481 :      remove      pillw1
R2ADJ -.5340134 :      remove      pillw3
R2ADJ -.5359958 :      remove      smokw1
R2ADJ -.5347107 :      remove      liqw1
R2ADJ -.5354765 :      remove      liqw2
R2ADJ -.5357698 :      remove      WHPel
R2ADJ -.5296081 :      remove      WHPpa
R2ADJ -.5336281 :      remove      HP2probsoc
R2ADJ -.4929339 :      remove      radchw3
R2ADJ -.5321867 :      remove      Havmil
R2ADJ -.5334181 :      remove      carcin

```

```

Stage 1 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2

```

```
> ncontw3 pillw1 pillw3 li : R2ADJ -.5359958
```

R2ADJ -.5348268 :	remove	trgovw1
R2ADJ -.5344766 :	remove	ecprw1
R2ADJ -.526534 :	remove	polprw1
R2ADJ -.5344917 :	remove	airw1
R2ADJ -.5198041 :	remove	radchw1
R2ADJ -.5319691 :	remove	dauthw3
R2ADJ -.5324302 :	remove	healtheft
R2ADJ -.5374679 :	remove	HP2vacatn
R2ADJ -.5323866 :	remove	shhousw1
R2ADJ -.5368921 :	remove	trrepw1
R2ADJ -.5276463 :	remove	childw1
R2ADJ -.5368628 :	remove	radtlw1
R2ADJ -.5356244 :	remove	illw2
R2ADJ -.5358203 :	remove	emplw12
R2ADJ -.5350032 :	remove	emplw13
R2ADJ -.5366616 :	remove	emplw16
R2ADJ -.5278538 :	remove	emplw23
R2ADJ -.5259613 :	remove	emplw24
R2ADJ -.5344493 :	remove	inc4w1
R2ADJ -.5376619 :	remove	deaw1
R2ADJ -.5355159 :	remove	cataw3
R2ADJ -.535247 :	remove	movew2
R2ADJ -.5352906 :	remove	mhlthw2
R2ADJ -.5358871 :	remove	goferw1
R2ADJ -.5374733 :	remove	goferw2
R2ADJ -.5355151 :	remove	fdferw1
R2ADJ -.5269378 :	remove	fdferw2
R2ADJ -.5365286 :	remove	ncontw3
R2ADJ -.5344879 :	remove	pillw1
R2ADJ -.5356469 :	remove	pillw3
R2ADJ -.5362245 :	remove	liqw1
R2ADJ -.5371911 :	remove	liqw2
R2ADJ -.5374721 :	remove	WHPel
R2ADJ -.5313416 :	remove	WHPpa
R2ADJ -.5352337 :	remove	HP2probsoc
R2ADJ -.494825 :	remove	radchw3
R2ADJ -.5337966 :	remove	Havmil
R2ADJ -.5351304 :	remove	carcin

```
Stage 2 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healtheft HP2v  
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23  
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw  
> 3 pillw1 pillw3 liqw1 l : R2ADJ -.5376619
```

R2ADJ -.5365196 :	remove	trgovw1
R2ADJ -.5361955 :	remove	ecprw1
R2ADJ -.5281202 :	remove	polprw1

R2ADJ	-.5360632	:	remove	airw1
R2ADJ	-.5211001	:	remove	radchw1
R2ADJ	-.5336661	:	remove	dauthw3
R2ADJ	-.5340424	:	remove	healthef
R2ADJ	-.5390923	:	remove	HP2vacatn
R2ADJ	-.5340305	:	remove	shhousw1
R2ADJ	-.538544	:	remove	trrepw1
R2ADJ	-.5294084	:	remove	childw1
R2ADJ	-.5385151	:	remove	radtlw1
R2ADJ	-.5373665	:	remove	illw2
R2ADJ	-.5375258	:	remove	emplw12
R2ADJ	-.5367283	:	remove	emplw13
R2ADJ	-.5383529	:	remove	emplw16
R2ADJ	-.5295526	:	remove	emplw23
R2ADJ	-.5277556	:	remove	emplw24
R2ADJ	-.5361989	:	remove	inc4w1
R2ADJ	-.5371447	:	remove	cataw3
R2ADJ	-.5369333	:	remove	movew2
R2ADJ	-.5368302	:	remove	mhlthw2
R2ADJ	-.5374166	:	remove	goferw1
R2ADJ	-.5390979	:	remove	goferw2
R2ADJ	-.5371741	:	remove	fdferw1
R2ADJ	-.5286808	:	remove	fdferw2
R2ADJ	-.5381574	:	remove	ncontw3
R2ADJ	-.5361354	:	remove	pillw1
R2ADJ	-.5373808	:	remove	pillw3
R2ADJ	-.5378992	:	remove	liqw1
R2ADJ	-.538872	:	remove	liqw2
R2ADJ	-.5391281	:	remove	WHPel
R2ADJ	-.5331142	:	remove	WHPpa
R2ADJ	-.5368143	:	remove	HP2probsoc
R2ADJ	-.496691	:	remove	radchw3
R2ADJ	-.5354196	:	remove	Havmil
R2ADJ	-.5367645	:	remove	carcin

```

Stage 3 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw
> 3 pillw1 pillw3 liqw1 1 : R2ADJ -.5391281

```

R2ADJ	-.5379744	:	remove	trgovw1
R2ADJ	-.5376367	:	remove	ecprw1
R2ADJ	-.5298242	:	remove	polprw1
R2ADJ	-.5375439	:	remove	airw1
R2ADJ	-.522674	:	remove	radchw1
R2ADJ	-.5351981	:	remove	dauthw3
R2ADJ	-.535324	:	remove	healthef
R2ADJ	-.5404883	:	remove	HP2vacatn
R2ADJ	-.5351782	:	remove	shhousw1

R2ADJ	-.5399753	:	remove	trrepw1
R2ADJ	-.5307936	:	remove	childw1
R2ADJ	-.5399454	:	remove	radtlw1
R2ADJ	-.5388916	:	remove	illw2
R2ADJ	-.5390715	:	remove	emplw12
R2ADJ	-.538292	:	remove	emplw13
R2ADJ	-.5398789	:	remove	emplw16
R2ADJ	-.5309059	:	remove	emplw23
R2ADJ	-.5293611	:	remove	emplw24
R2ADJ	-.537701	:	remove	inc4w1
R2ADJ	-.5384233	:	remove	cataw3
R2ADJ	-.5386014	:	remove	movew2
R2ADJ	-.5383743	:	remove	mhlthw2
R2ADJ	-.5388914	:	remove	goferw1
R2ADJ	-.5405757	:	remove	goferw2
R2ADJ	-.5384348	:	remove	fdferw1
R2ADJ	-.5300033	:	remove	fdferw2
R2ADJ	-.5396033	:	remove	ncontw3
R2ADJ	-.5374602	:	remove	pillw1
R2ADJ	-.539073	:	remove	pillw3
R2ADJ	-.5392895	:	remove	liqw1
R2ADJ	-.5403456	:	remove	liqw2
R2ADJ	-.532772	:	remove	WHPpa
R2ADJ	-.5380077	:	remove	HP2probsoc
R2ADJ	-.4982278	:	remove	radchw3
R2ADJ	-.5369383	:	remove	Havmil
R2ADJ	-.53808	:	remove	carcin

```

Stage 4 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw1 fdferw1 fdferw2 ncontw3 pillw1
> pillw3 liqw1 liqw2 W : R2ADJ -.5405757

```

R2ADJ	-.5391928	:	remove	trgovw1
R2ADJ	-.538821	:	remove	ecprw1
R2ADJ	-.5313091	:	remove	polprw1
R2ADJ	-.5391913	:	remove	airw1
R2ADJ	-.5241715	:	remove	radchw1
R2ADJ	-.5367049	:	remove	dauthw3
R2ADJ	-.5368303	:	remove	healthef
R2ADJ	-.5418469	:	remove	HP2vacatn
R2ADJ	-.536266	:	remove	shhousw1
R2ADJ	-.5413265	:	remove	trrepw1
R2ADJ	-.532171	:	remove	childw1
R2ADJ	-.5413134	:	remove	radtlw1
R2ADJ	-.540284	:	remove	illw2
R2ADJ	-.5405107	:	remove	emplw12
R2ADJ	-.5397455	:	remove	emplw13
R2ADJ	-.5413327	:	remove	emplw16

R2ADJ	-.5322816	:	remove	emplw23
R2ADJ	-.5306727	:	remove	emplw24
R2ADJ	-.5390443	:	remove	inc4w1
R2ADJ	-.5399486	:	remove	cataw3
R2ADJ	-.5401541	:	remove	movew2
R2ADJ	-.5399356	:	remove	mhlthw2
R2ADJ	-.540622	:	remove	goferw1
R2ADJ	-.5401118	:	remove	fdferw1
R2ADJ	-.5268911	:	remove	fdferw2
R2ADJ	-.5410908	:	remove	ncontw3
R2ADJ	-.538842	:	remove	pillw1
R2ADJ	-.540587	:	remove	pillw3
R2ADJ	-.5405861	:	remove	liqw1
R2ADJ	-.5418596	:	remove	liqw2
R2ADJ	-.5344752	:	remove	WHPpa
R2ADJ	-.5392823	:	remove	HP2probsoc
R2ADJ	-.4999683	:	remove	radchw3
R2ADJ	-.5383633	:	remove	Havmil
R2ADJ	-.5395756	:	remove	carcin

```

Stage 5 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw1 fdferw1 fdferw2 ncontw3 pillw1
> pillw3 liqw1 WHPpa : R2ADJ -.5418596

```

R2ADJ	-.5405072	:	remove	trgovw1
R2ADJ	-.5399767	:	remove	ecprw1
R2ADJ	-.5330182	:	remove	polprw1
R2ADJ	-.5403891	:	remove	airw1
R2ADJ	-.5252383	:	remove	radchw1
R2ADJ	-.5379464	:	remove	dauthw3
R2ADJ	-.5375794	:	remove	healthef
R2ADJ	-.5431188	:	remove	HP2vacatn
R2ADJ	-.537807	:	remove	shhousw1
R2ADJ	-.542638	:	remove	trrepw1
R2ADJ	-.5338225	:	remove	childw1
R2ADJ	-.5424721	:	remove	radtlw1
R2ADJ	-.5417145	:	remove	illw2
R2ADJ	-.5418998	:	remove	emplw12
R2ADJ	-.5411625	:	remove	emplw13
R2ADJ	-.5427143	:	remove	emplw16
R2ADJ	-.5338831	:	remove	emplw23
R2ADJ	-.5322602	:	remove	emplw24
R2ADJ	-.540625	:	remove	inc4w1
R2ADJ	-.5411848	:	remove	cataw3
R2ADJ	-.5417517	:	remove	movew2
R2ADJ	-.5413693	:	remove	mhlthw2
R2ADJ	-.5418945	:	remove	goferw1
R2ADJ	-.5414259	:	remove	fdferw1

```

R2ADJ -.5283319 :      remove    fdferw2
R2ADJ -.5421771 :      remove    ncontw3
R2ADJ -.5400342 :      remove    pillw1
R2ADJ -.5417199 :      remove    pillw3
R2ADJ -.5358274 :      remove    liqw1
R2ADJ -.535308  :      remove    WHPpa
R2ADJ -.5405843 :      remove    HP2probsoc
R2ADJ -.5016799 :      remove    radchw3
R2ADJ -.53984   :      remove    Havmil
R2ADJ -.540499  :      remove    carcin

```

```

Stage 6 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 i
> nc4w1 cataw3 movew2 mhlthw2 goferw1 fdferw1 fdferw2 ncontw3 pillw1 pillw3 li
> qw1  WHPpa HP2probso : R2ADJ -.5431188

```

```

R2ADJ -.5420726 :      remove    trgovw1
R2ADJ -.5414449 :      remove    ecprw1
R2ADJ -.5342007 :      remove    polprw1
R2ADJ -.5415699 :      remove    airw1
R2ADJ -.5268516 :      remove    radchw1
R2ADJ -.5390087 :      remove    dauthw3
R2ADJ -.5388194 :      remove    healthef
R2ADJ -.5386987 :      remove    shhousw1
R2ADJ -.5440102 :      remove    trrepw1
R2ADJ -.5348769 :      remove    childw1
R2ADJ -.5434888 :      remove    radtlw1
R2ADJ -.5428784 :      remove    illw2
R2ADJ -.5432009 :      remove    emplw12
R2ADJ -.5424839 :      remove    emplw13
R2ADJ -.5440056 :      remove    emplw16
R2ADJ -.5353967 :      remove    emplw23
R2ADJ -.5337763 :      remove    emplw24
R2ADJ -.5420177 :      remove    inc4w1
R2ADJ -.5425036 :      remove    cataw3
R2ADJ -.5430821 :      remove    movew2
R2ADJ -.5426725 :      remove    mhlthw2
R2ADJ -.5430418 :      remove    goferw1
R2ADJ -.5428398 :      remove    fdferw1
R2ADJ -.5286099 :      remove    fdferw2
R2ADJ -.5432534 :      remove    ncontw3
R2ADJ -.5412343 :      remove    pillw1
R2ADJ -.5429341 :      remove    pillw3
R2ADJ -.5371154 :      remove    liqw1
R2ADJ -.5358828 :      remove    WHPpa
R2ADJ -.5391869 :      remove    HP2probsoc
R2ADJ -.5035183 :      remove    radchw3
R2ADJ -.5411644 :      remove    Havmil
R2ADJ -.5417371 :      remove    carcin

```

```

Stage 7 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 ca
> taw3 movew2 mhlthw2 goferw1 fdferw1 fdferw2 ncontw3 pillw1 pillw3 liqw1 WHP
> pa HP2probsoc radch : R2ADJ -.5440102

```

R2ADJ -.5436856 :	remove	trgovw1
R2ADJ -.5414011 :	remove	ecprw1
R2ADJ -.5348152 :	remove	polprw1
R2ADJ -.5426517 :	remove	airw1
R2ADJ -.5283693 :	remove	radchw1
R2ADJ -.5397421 :	remove	dauthw3
R2ADJ -.5396743 :	remove	healthef
R2ADJ -.539268 :	remove	shhousw1
R2ADJ -.5360012 :	remove	childw1
R2ADJ -.5445466 :	remove	radtlw1
R2ADJ -.5434712 :	remove	illw2
R2ADJ -.5441921 :	remove	emplw12
R2ADJ -.5435017 :	remove	emplw13
R2ADJ -.5449715 :	remove	emplw16
R2ADJ -.5367436 :	remove	emplw23
R2ADJ -.5347139 :	remove	emplw24
R2ADJ -.5431715 :	remove	inc4w1
R2ADJ -.5426124 :	remove	cataw3
R2ADJ -.5439585 :	remove	movew2
R2ADJ -.5436025 :	remove	mhlthw2
R2ADJ -.5438475 :	remove	goferw1
R2ADJ -.5437433 :	remove	fdferw1
R2ADJ -.5303238 :	remove	fdferw2
R2ADJ -.5443872 :	remove	ncontw3
R2ADJ -.54245 :	remove	pillw1
R2ADJ -.5440728 :	remove	pillw3
R2ADJ -.5379084 :	remove	liqw1
R2ADJ -.5369981 :	remove	WHPpa
R2ADJ -.5398837 :	remove	HP2probsoc
R2ADJ -.5040554 :	remove	radchw3
R2ADJ -.542612 :	remove	Havmil
R2ADJ -.5427081 :	remove	carcin

```

Stage 8 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 mov
> ew2 mhlthw2 goferw1 fdferw1 fdferw2 ncontw3 pillw1 pillw3 liqw1 WHPpa HP2pr
> obsoc radchw3 Havm : R2ADJ -.5449715

```

R2ADJ -.5443485 :	remove	trgovw1
R2ADJ -.5419477 :	remove	ecprw1
R2ADJ -.5356321 :	remove	polprw1
R2ADJ -.543585 :	remove	airw1
R2ADJ -.5293297 :	remove	radchw1

R2ADJ	-.540516	:	remove	dauthw3
R2ADJ	-.5407559	:	remove	healthef
R2ADJ	-.5399219	:	remove	shhousw1
R2ADJ	-.5360191	:	remove	childw1
R2ADJ	-.545484	:	remove	radtlw1
R2ADJ	-.5445526	:	remove	illw2
R2ADJ	-.5418166	:	remove	emplw12
R2ADJ	-.5366003	:	remove	emplw13
R2ADJ	-.5380357	:	remove	emplw23
R2ADJ	-.5326315	:	remove	emplw24
R2ADJ	-.544093	:	remove	inc4w1
R2ADJ	-.5435848	:	remove	cataw3
R2ADJ	-.5448127	:	remove	movew2
R2ADJ	-.5444523	:	remove	mhlthw2
R2ADJ	-.5447265	:	remove	goferw1
R2ADJ	-.5448154	:	remove	fdferw1
R2ADJ	-.5308949	:	remove	fdferw2
R2ADJ	-.5451394	:	remove	ncontw3
R2ADJ	-.5433708	:	remove	pillw1
R2ADJ	-.5449332	:	remove	pillw3
R2ADJ	-.5386577	:	remove	liqw1
R2ADJ	-.5376044	:	remove	WHPpa
R2ADJ	-.5409313	:	remove	HP2probsoc
R2ADJ	-.5044456	:	remove	radchw3
R2ADJ	-.5435442	:	remove	Havmil
R2ADJ	-.5436792	:	remove	carcin

```

Stage 9 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 illw2 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2
> goferw1 fdferw1 fdferw2 ncontw3 pillw1 pillw3 liqw1 WHPpa HP2probsoc radchw3
> Havmil carcin : R2ADJ  -.545484

```

R2ADJ	-.5444098	:	remove	trgovw1
R2ADJ	-.5426918	:	remove	ecprw1
R2ADJ	-.534458	:	remove	polprw1
R2ADJ	-.5442484	:	remove	airw1
R2ADJ	-.5306433	:	remove	radchw1
R2ADJ	-.5411916	:	remove	dauthw3
R2ADJ	-.541531	:	remove	healthef
R2ADJ	-.5402698	:	remove	shhousw1
R2ADJ	-.5358889	:	remove	childw1
R2ADJ	-.5453277	:	remove	illw2
R2ADJ	-.5424876	:	remove	emplw12
R2ADJ	-.5371884	:	remove	emplw13
R2ADJ	-.5388989	:	remove	emplw23
R2ADJ	-.5334347	:	remove	emplw24
R2ADJ	-.5443998	:	remove	inc4w1
R2ADJ	-.5442711	:	remove	cataw3
R2ADJ	-.5453513	:	remove	movew2

R2ADJ	-.5448915	:	remove	mhlthw2
R2ADJ	-.5454942	:	remove	goferw1
R2ADJ	-.5455363	:	remove	fdferw1
R2ADJ	-.5302819	:	remove	fdferw2
R2ADJ	-.5455341	:	remove	ncontw3
R2ADJ	-.5439575	:	remove	pillw1
R2ADJ	-.5452793	:	remove	pillw3
R2ADJ	-.5394408	:	remove	liqw1
R2ADJ	-.5382217	:	remove	WHPpa
R2ADJ	-.5412921	:	remove	HP2probsoc
R2ADJ	-.5038405	:	remove	radchw3
R2ADJ	-.5444024	:	remove	Havmil
R2ADJ	-.5443593	:	remove	carcin

```

Stage 10 reg radfmw3 trgoww1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 illw2 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 movew2 mhl
> thw2 goferw1 fdferw2 ncontw3 pillw1 pillw3 liqw1 WHPpa HP2probsoc radchw3
> Havmil carcin : R2ADJ -.5455363

```

R2ADJ	-.5448131	:	remove	trgoww1
R2ADJ	-.5429071	:	remove	ecprw1
R2ADJ	-.5333209	:	remove	polprw1
R2ADJ	-.5438228	:	remove	airw1
R2ADJ	-.5303772	:	remove	radchw1
R2ADJ	-.5418663	:	remove	dauthw3
R2ADJ	-.5416899	:	remove	healthef
R2ADJ	-.5403271	:	remove	shhousw1
R2ADJ	-.5350507	:	remove	childw1
R2ADJ	-.5457674	:	remove	illw2
R2ADJ	-.5426725	:	remove	emplw12
R2ADJ	-.5376335	:	remove	emplw13
R2ADJ	-.5386881	:	remove	emplw23
R2ADJ	-.5333411	:	remove	emplw24
R2ADJ	-.5444856	:	remove	inc4w1
R2ADJ	-.5444174	:	remove	cataw3
R2ADJ	-.5456601	:	remove	movew2
R2ADJ	-.5451448	:	remove	mhlthw2
R2ADJ	-.5467554	:	remove	goferw1
R2ADJ	-.5131473	:	remove	fdferw2
R2ADJ	-.545367	:	remove	ncontw3
R2ADJ	-.5440821	:	remove	pillw1
R2ADJ	-.544988	:	remove	pillw3
R2ADJ	-.5398069	:	remove	liqw1
R2ADJ	-.5375842	:	remove	WHPpa
R2ADJ	-.5411731	:	remove	HP2probsoc
R2ADJ	-.5044605	:	remove	radchw3
R2ADJ	-.5448182	:	remove	Havmil
R2ADJ	-.5444793	:	remove	carcin

```

Stage 11 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 illw2 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 movew2 mhl
> thw2 fdferw2 ncontw3 pillw1 pillw3 liqw1 WHPpa HP2probsoc radchw3 Havmil c
> arcin : R2ADJ -.5467554

```

```

R2ADJ -.5461288 :      remove   trgovw1
R2ADJ -.543892  :      remove   ecprw1
R2ADJ -.5349339 :      remove   polprw1
R2ADJ -.5450295 :      remove   airw1
R2ADJ -.53165   :      remove   radchw1
R2ADJ -.5432992 :      remove   dauthw3
R2ADJ -.5429568 :      remove   healthef
R2ADJ -.542     :      remove   shhousw1
R2ADJ -.5364279 :      remove   childw1
R2ADJ -.5470849 :      remove   illw2
R2ADJ -.5438539 :      remove   emplw12
R2ADJ -.5388639 :      remove   emplw13
R2ADJ -.539021  :      remove   emplw23
R2ADJ -.5349697 :      remove   emplw24
R2ADJ -.5456546 :      remove   inc4w1
R2ADJ -.545464  :      remove   cataw3
R2ADJ -.5469766 :      remove   movew2
R2ADJ -.5465986 :      remove   mhlthw2
R2ADJ -.5139947 :      remove   fdferw2
R2ADJ -.5468727 :      remove   ncontw3
R2ADJ -.5453818 :      remove   pillw1
R2ADJ -.54636   :      remove   pillw3
R2ADJ -.5410727 :      remove   liqw1
R2ADJ -.5389317 :      remove   WHPpa
R2ADJ -.5427533 :      remove   HP2probsoc
R2ADJ -.5061012 :      remove   radchw3
R2ADJ -.5459648 :      remove   Havmil
R2ADJ -.5457103 :      remove   carcin

```

```

Stage 12 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2
> fdferw2 ncontw3 pillw1 pillw3 liqw1 WHPpa HP2probsoc radchw3 Havmil carcin
> : R2ADJ -.5470849

```

```

R2ADJ -.546036  :      remove   trgovw1
R2ADJ -.5434092 :      remove   ecprw1
R2ADJ -.5349823 :      remove   polprw1
R2ADJ -.5454703 :      remove   airw1
R2ADJ -.5317163 :      remove   radchw1
R2ADJ -.5431959 :      remove   dauthw3
R2ADJ -.5431951 :      remove   healthef
R2ADJ -.5426456 :      remove   shhousw1
R2ADJ -.5368808 :      remove   childw1
R2ADJ -.5442319 :      remove   emplw12

```

R2ADJ	-.5390695	:	remove	emplw13
R2ADJ	-.540181	:	remove	emplw23
R2ADJ	-.5358374	:	remove	emplw24
R2ADJ	-.5458736	:	remove	inc4w1
R2ADJ	-.5456889	:	remove	cataw3
R2ADJ	-.5474361	:	remove	movew2
R2ADJ	-.5468604	:	remove	mhlthw2
R2ADJ	-.5120963	:	remove	fdferw2
R2ADJ	-.5470856	:	remove	ncontw3
R2ADJ	-.5456541	:	remove	pillw1
R2ADJ	-.5470814	:	remove	pillw3
R2ADJ	-.5401095	:	remove	liqw1
R2ADJ	-.5381965	:	remove	WHPpa
R2ADJ	-.5429386	:	remove	HP2probsoc
R2ADJ	-.5063564	:	remove	radchw3
R2ADJ	-.5459924	:	remove	Havmil
R2ADJ	-.5460337	:	remove	carcin

```

Stage 13 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 mhlthw2 fdferw
> 2 ncontw3 pillw1 pillw3 liqw1 WHPpa HP2probsoc radchw3 Havmil carcin : R2AD
> J -.5474361

```

R2ADJ	-.5459477	:	remove	trgovw1
R2ADJ	-.5435379	:	remove	ecprw1
R2ADJ	-.5357172	:	remove	polprw1
R2ADJ	-.545844	:	remove	airw1
R2ADJ	-.5330616	:	remove	radchw1
R2ADJ	-.5440521	:	remove	dauthw3
R2ADJ	-.5432687	:	remove	healthef
R2ADJ	-.5424205	:	remove	shhousw1
R2ADJ	-.5373438	:	remove	childw1
R2ADJ	-.5448574	:	remove	emplw12
R2ADJ	-.5401051	:	remove	emplw13
R2ADJ	-.5406308	:	remove	emplw23
R2ADJ	-.5361056	:	remove	emplw24
R2ADJ	-.5462841	:	remove	inc4w1
R2ADJ	-.5454555	:	remove	cataw3
R2ADJ	-.5470618	:	remove	mhlthw2
R2ADJ	-.5137611	:	remove	fdferw2
R2ADJ	-.5476423	:	remove	ncontw3
R2ADJ	-.5457436	:	remove	pillw1
R2ADJ	-.5477441	:	remove	pillw3
R2ADJ	-.539967	:	remove	liqw1
R2ADJ	-.539519	:	remove	WHPpa
R2ADJ	-.5423464	:	remove	HP2probsoc
R2ADJ	-.5074239	:	remove	radchw3
R2ADJ	-.5470776	:	remove	Havmil
R2ADJ	-.5462685	:	remove	carcin

```

Stage 14 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 mhlthw2 fdferw
> 2 ncontw3 pillw1 liqw1 WHPpa HP2probsoc radchw3 Havmil carcin : R2ADJ -.54
> 77441

```

```

R2ADJ -.5461476 :      remove      trgovw1
R2ADJ -.5437794 :      remove      ecprw1
R2ADJ -.5358637 :      remove      polprw1
R2ADJ -.5463402 :      remove      airw1
R2ADJ -.5339255 :      remove      radchw1
R2ADJ -.5450057 :      remove      dauthw3
R2ADJ -.5440962 :      remove      healthef
R2ADJ -.5421735 :      remove      shhousw1
R2ADJ -.5382947 :      remove      childw1
R2ADJ -.5447473 :      remove      emplw12
R2ADJ -.5402482 :      remove      emplw13
R2ADJ -.5411796 :      remove      emplw23
R2ADJ -.5359716 :      remove      emplw24
R2ADJ -.545519  :      remove      inc4w1
R2ADJ -.5453872 :      remove      cataw3
R2ADJ -.547346  :      remove      mhlthw2
R2ADJ -.5146182 :      remove      fdferw2
R2ADJ -.5481102 :      remove      ncontw3
R2ADJ -.5459945 :      remove      pillw1
R2ADJ -.5392217 :      remove      liqw1
R2ADJ -.540034  :      remove      WHPpa
R2ADJ -.5428004 :      remove      HP2probsoc
R2ADJ -.5088898 :      remove      radchw3
R2ADJ -.5471912 :      remove      Havmil
R2ADJ -.547011  :      remove      carcin

```

```

Stage 15 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 emplw12 emplw13 emplw23 emplw24 inc4w1 cataw3 mhlthw2 fdferw
> 2 pillw1 liqw1 WHPpa HP2probsoc radchw3 Havmil carcin : R2ADJ -.5481102

```

```

R2ADJ -.546747  :      remove      trgovw1
R2ADJ -.5435958 :      remove      ecprw1
R2ADJ -.5363053 :      remove      polprw1
R2ADJ -.5459182 :      remove      airw1
R2ADJ -.5333791 :      remove      radchw1
R2ADJ -.5453176 :      remove      dauthw3
R2ADJ -.5446248 :      remove      healthef
R2ADJ -.5428419 :      remove      shhousw1
R2ADJ -.5393665 :      remove      childw1
R2ADJ -.5450802 :      remove      emplw12
R2ADJ -.5407842 :      remove      emplw13
R2ADJ -.5418678 :      remove      emplw23
R2ADJ -.5363112 :      remove      emplw24

```

```

R2ADJ -.5456507 :      remove      inc4w1
R2ADJ -.5458215 :      remove      cataw3
R2ADJ -.547779  :      remove      mhlthw2
R2ADJ -.515677  :      remove      fdferw2
R2ADJ -.5463498 :      remove      pillw1
R2ADJ -.5401564 :      remove      liqw1
R2ADJ -.5409581 :      remove      WHPpa
R2ADJ -.5426978 :      remove      HP2probsoc
R2ADJ -.5071858 :      remove      radchw3
R2ADJ -.5472004 :      remove      Havmil
R2ADJ -.5474329 :      remove      carcin

```

Final Model

Source	SS	df	MS	Number of obs =	301
Model	210930.943	24	8788.78931	F(24, 276) =	16.16
Residual	150090.585	276	543.806467	Prob > F =	0.0000
				R-squared =	0.5843
				Adj R-squared =	0.5481
Total	361021.528	300	1203.40509	Root MSE =	23.32

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	-.0576183	.0425275	-1.35	0.177	-.1413377	.0261011
ecprw1	.0980363	.0505095	1.94	0.053	-.0013966	.1974692
polprw1	.1661504	.0578947	2.87	0.004	.0521791	.2801216
airw1	.0835956	.0546053	1.53	0.127	-.0239002	.1910913
radchw1	-.1854863	.0585684	-3.17	0.002	-.3007839	-.0701887
dauthw3	-.0731788	.044438	-1.65	0.101	-.1606592	.0143016
healthef	.6110682	.3450395	1.77	0.078	-.0681752	1.290312
shhousw1	.0933523	.0453927	2.06	0.041	.0039923	.1827122
childw1	4.89181	1.939768	2.52	0.012	1.073189	8.71043
emplw12	-7.227052	4.27544	-1.69	0.092	-15.64367	1.189563
emplw13	-11.70824	4.99664	-2.34	0.020	-21.54461	-1.871872
emplw23	9.378169	4.268755	2.20	0.029	.9747136	17.78163
emplw24	-71.76449	25.0116	-2.87	0.004	-121.0022	-22.52674
inc4w1	-8.105733	5.118726	-1.58	0.114	-18.18244	1.970971
cataw3	23.11355	14.91062	1.55	0.122	-6.239437	52.46654
mhlthw2	.094853	.0864801	1.10	0.274	-.0753913	.2650974
fdferw2	.2724755	.0596283	4.57	0.000	.1550916	.3898595
pillw1	-1.27259	.8825738	-1.44	0.150	-3.010021	.4648417
liqw1	1.283583	.5295426	2.42	0.016	.2411272	2.326039
WHPpa	.2580636	.1112168	2.32	0.021	.0391225	.4770046
HP2probsoc	10.53334	5.069195	2.08	0.039	.5541416	20.51254
radchw3	.3281867	.0642566	5.11	0.000	.2016913	.4546821
Havmil	.0166884	.0133712	1.25	0.213	-.009634	.0430108
carcin	-.4027015	.3385136	-1.19	0.235	-1.069098	.2636951
_cons	3.084686	10.0627	0.31	0.759	-16.7247	22.89408

```

250 .
251 . /*pwcrr trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn //
> /
> shhousw1 trrepw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 ///
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, sig obs
> pwcrr trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 radtlw1 ///
> inc4w1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> pillw1 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin, sig obs
> */
252 . subtitle "Polychoric correlation matrix input to Factor analysis of males ov
> er waves 1 2 and* 3"

```

```

Date and time: 26 Apr 2012 12:44:38
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012males.
> dta
data file has 2180 variables
and 340 observations

```

```

Polychoric correlation matrix input to Factor analysis of males over waves 1 2
> and* 3

```

```

253 .

```

```

254 . // items with missing values are dropped
255 . polychoricpca ecprw1 polprw1 airw1 radchw1 healthef HP2vacatn ///
> shhousw1 ///
> inc4w1 movew2 goferw1 goferw2 fdferw1 fdferw2 ///
> WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin

```

Polychoric correlation matrix

```

> catn      ecprw1      polprw1      airw1      radchw1      healthef      HP2va
      shhousw1      inc4w1      movew2
      ecprw1      1
      polprw1      .41205409      1
      airw1      .40768669      .64370515      1
      radchw1      -.00755992      .08761625      .07669331      1
      healthef      .22019206      .23878621      .20999392      -.13774404      1
      HP2vacatn      -.05357002      .23102716      .1480493      -.07441468      .03941102
> 1
      shhousw1      .32575635      .25962861      .22072794      -.10680923      .2876807      .1550
> 8404      1
      inc4w1      -.28611313      -.00002898      -.03421463      .13454985      -.15358523      .0343
> 0877      -.1947415      1
      movew2      .09936057      .11700413      .0522906      -.24380009      .0620403      .0893
> 5445      .04266167      -.21948586      1
      goferw1      .10541187      .24865232      .19625751      -.07409928      .25381709      .1936
> 3556      .3118097      -.01287939      .03113833
      goferw2      .11296554      .14270643      .02675582      -.15093447      .28362265      .2945
> 0116      .30289298      -.05413935      .08613333
      fdferw1      .19821831      .3814299      .32514006      -.11084169      .31608869      .2815
> 2104      .36573718      .02936194      .16003787
      fdferw2      .09056377      .23768544      .14872326      -.17734982      .3152948      .3358
> 4201      .30185063      .12277758      .09735388
      WHPel      .08809022      .14639054      .10224559      -.04564881      .12420834      .5562
> 7457      .23383222      .12859996      .24619984
      WHPpa      .17609905      .18877379      .13575849      .05708338      .13060773      .4091
> 0931      .16805872      -.02493624      .12159687
      HP2probsoc      .01377039      .27932957      .0863883      -.3084122      .13055563      .8472
> 9944      .13980724      -.05954582      -.06061758
      radchw3      .03524828      -.01039684      -.06413502      .62172832      .10350905      -.1472
> 2382      -.08066922      .06641839      -.1560039
      Havmil      .06017021      -.04276014      -.04148526      -.11427687      .10322506      -.1511
> 8129      -.07145703      -.03596372      .2353275
      carcin      .22595228      .24411803      .21580121      -.13603184      .99072101      .0456
> 6486      .27401512      -.14717892      .06841378

```

```

                goferw1      goferw2      fdferw1      fdferw2      WHPel      W
> HPpa  HP2probsoc      radchw3      Havmil
    goferw1      1
    goferw2      .55525871      1
    fdferw1      .71210213      .49873609      1
    fdferw2      .41091073      .63927453      .68084659      1
    WHPel      .21782831      .18284327      .33223794      .27664283      1
    WHPpa      .11869024      .00615185      .14435367      .02368338      .49833997
>      1
HP2probsoc      .34356666      .35524193      .41529202      .37814959      .60899671      .4521
> 6528      1
    radchw3      -.02309046      -.10702808      -.12613756      -.19183194      .02660048      .1765
> 1723      -.18505067      1
    Havmil      -.11062723      -.07280103      -.1323268      -.09717088      -.01949012      .0091
> 6252      -.14587162      -.00390949      1
    carcin      .25863703      .28605071      .32128295      .31902129      .11338016      .127
> 0143      .13662736      .0940088      .09803324

                carcin
    carcin      1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	4.776835	0.251412	0.251412
2	2.281735	0.120091	0.371504
3	1.936444	0.101918	0.473422
4	1.689198	0.088905	0.562327
5	1.493353	0.078598	0.640924
6	1.115653	0.058719	0.699643
7	1.083023	0.057001	0.756644
8	0.771571	0.040609	0.797253
9	0.728068	0.038319	0.835573
10	0.658094	0.034637	0.870209
11	0.567914	0.029890	0.900099
12	0.432660	0.022772	0.922871
13	0.402959	0.021208	0.944079
14	0.365185	0.019220	0.963299
15	0.290729	0.015302	0.978601
16	0.252280	0.013278	0.991879
17	0.136504	0.007184	0.999063
18	0.012395	0.000652	0.999716
19	0.005401	0.000284	1.000000

```
256 . matrix define mypchor1m = r(R)
```

```
257 . factormat mypchor1m, n(340) blanks(.36) factors(7)
      (obs=340)
```

```
Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)

Number of obs   =   340
Retained factors =    7
Number of params =  112
```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.58130	2.42809	0.3234	0.3234
Factor2	2.15322	0.46645	0.1520	0.4754
Factor3	1.68676	0.28825	0.1191	0.5944
Factor4	1.39852	0.09995	0.0987	0.6931
Factor5	1.29856	0.37788	0.0917	0.7848
Factor6	0.92069	0.10276	0.0650	0.8498
Factor7	0.81792	0.28095	0.0577	0.9075
Factor8	0.53697	0.14535	0.0379	0.9454
Factor9	0.39162	0.15973	0.0276	0.9731
Factor10	0.23189	0.03716	0.0164	0.9894
Factor11	0.19473	0.06952	0.0137	1.0032
Factor12	0.12521	0.01721	0.0088	1.0120
Factor13	0.10800	0.10314	0.0076	1.0196
Factor14	0.00485	0.00834	0.0003	1.0200
Factor15	-0.00349	0.00463	-0.0002	1.0197
Factor16	-0.00811	0.02720	-0.0006	1.0192
Factor17	-0.03532	0.03822	-0.0025	1.0167
Factor18	-0.07354	0.08898	-0.0052	1.0115
Factor19	-0.16251	.	-0.0115	1.0000

```
LR test: independent vs. saturated: chi2(171) = 4781.65 Prob>chi2 = 0.0000
```

```
Factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Uniqueness					
ecprw1	0.6070					
polprw1	0.5259		0.3835		-0.4260	
airw1	0.4052				-0.4431	
radchw1	0.3283		0.7973			

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.70892	0.23906	0.1912	0.1912
Factor2	2.46987	0.23891	0.1743	0.3655
Factor3	2.23096	0.48625	0.1575	0.5230
Factor4	1.74470	0.21120	0.1232	0.6462
Factor5	1.53350	0.39487	0.1082	0.7544
Factor6	1.13863	0.10824	0.0804	0.8348
Factor7	1.03039	.	0.0727	0.9075

LR test: independent vs. saturated: $\chi^2(171) = 4781.65$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Uniqueness					
ecprw1				0.4609		
	0.6070					
polprw1				0.8271		
	0.2401					
airw1				0.8039		
	0.3283					
radchw1					0.8803	
	0.1525					
healthef			0.9767			
	0.0143					
HP2vacatn	0.8855					
	0.1791					
shhousw1		0.3915				
0.4136	0.5746					
inc4w1						
-0.8090	0.3058					
movew2						0.9075
	0.1384					
goferw1		0.7018				
	0.4440					
goferw2		0.6916				
	0.4346					
fdferw1		0.7945				
	0.2076					
fdferw2		0.7004				
	0.3624					
WHPel	0.7282					0.3610
	0.2756					


```

259 .
260 .
261 .
262 .
263 . // static male factor analysis over three waves
264 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1 healthf HP2vacatn  ///
>   shhousw1 trrepw1 childw1 radtlw1  ///
>   goferw1 goferw2 fdferw1 fdferw2  ///
>   smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil  ///
>   carcin, factors(6)
(obs=302)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: (unrotated)
Number of obs   =   302
Retained factors =    6
Number of params =  129

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.30000	2.03573	0.3313	0.3313
Factor2	2.26427	0.27754	0.1745	0.5058
Factor3	1.98672	0.23718	0.1531	0.6589
Factor4	1.74954	0.48670	0.1348	0.7937
Factor5	1.26284	0.28041	0.0973	0.8910
Factor6	0.98243	0.20429	0.0757	0.9667
Factor7	0.77814	0.39634	0.0600	1.0267
Factor8	0.38180	0.09463	0.0294	1.0561
Factor9	0.28717	0.08226	0.0221	1.0782
Factor10	0.20491	0.02445	0.0158	1.0940
Factor11	0.18046	0.04311	0.0139	1.1079
Factor12	0.13735	0.08554	0.0106	1.1185
Factor13	0.05181	0.05980	0.0040	1.1225
Factor14	-0.00799	0.04230	-0.0006	1.1219
Factor15	-0.05029	0.04045	-0.0039	1.1180
Factor16	-0.09074	0.00463	-0.0070	1.1110
Factor17	-0.09537	0.02805	-0.0073	1.1036
Factor18	-0.12342	0.04102	-0.0095	1.0941
Factor19	-0.16444	0.00766	-0.0127	1.0815
Factor20	-0.17209	0.03100	-0.0133	1.0682
Factor21	-0.20309	0.00675	-0.0156	1.0526
Factor22	-0.20984	0.01667	-0.0162	1.0364
Factor23	-0.22650	0.01920	-0.0175	1.0189
Factor24	-0.24570	.	-0.0189	1.0000

LR test: independent vs. saturated: $\chi^2(276) = 3929.49$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable Uniqueness		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
>	trgovw1	0.2109	0.5621	0.0394	-0.1113	-0.4127	0.1712
>	0.4260						
>	ecprw1	0.3577	0.3194	0.1312	-0.0821	-0.2893	-0.0637
>	0.6583						
>	polprw1	0.5715	0.2418	0.2624	0.1532	-0.1720	-0.3000
>	0.4030						
>	airw1	0.4463	0.2133	0.1730	0.0887	-0.2189	-0.4091
>	0.5022						
>	radchw1	-0.1845	0.1647	0.6959	0.3233	0.2158	-0.0237
>	0.3029						
>	healthef	0.6433	0.3066	0.0077	-0.4823	0.4592	0.1261
>	0.0328						
>	HP2vacatn	0.4185	-0.1944	-0.0920	0.3540	-0.0458	0.2990
>	0.5618						
>	shhousw1	0.4669	-0.0103	0.1160	-0.1224	-0.2182	0.0215
>	0.7054						
>	trrepw1	0.1994	0.5990	0.1456	-0.1397	-0.3220	0.2003
>	0.4169						
>	childw1	0.1704	0.2010	-0.1390	0.3165	0.0601	-0.0816
>	0.8008						
>	radtlw1	0.0496	-0.0304	0.5626	0.3396	0.2260	-0.1075
>	0.5022						
>	goferw1	0.5979	-0.3143	0.0926	0.0500	0.0309	-0.1722
>	0.5021						
>	goferw2	0.5873	-0.3821	0.0040	-0.0681	0.0725	0.0017
>	0.4991						
>	fdferw1	0.7530	-0.3002	0.0688	0.0162	-0.0871	-0.1907
>	0.2939						
>	fdferw2	0.6607	-0.3934	-0.0389	-0.0988	0.0331	-0.0537
>	0.3934						
>	smokw1	0.1488	0.2321	-0.3227	0.2418	0.0838	-0.1704
>	0.7253						
>	liqw1	0.1682	0.4234	-0.5056	0.3663	0.2301	-0.2168
>	0.3027						
>	liqw2	0.0536	0.3593	-0.4960	0.3092	0.2243	-0.1539
>	0.4524						
>	WHPel	0.3897	-0.0497	-0.0497	0.3340	-0.0895	0.3195
>	0.6215						
>	WHPpa	0.3534	0.1653	0.0158	0.3933	-0.0512	0.3466
>	0.5701						
>	HP2probsoc	0.4790	-0.2691	-0.1878	0.3496	0.0007	0.3065
>	0.4467						
>	radchw3	-0.0834	0.2837	0.5463	0.2408	0.3431	0.1507

```

> |      0.4157
> |      Havmil | -0.0419    0.2335   -0.2206   -0.0730    0.0234    0.0823
> |      0.8824
> |      carcin |  0.6445    0.3066    0.0124   -0.4792    0.4600    0.1128
> |      0.0364
> |_____
> |_____

```

```
265 . rotate, blanks(.3)
```

```

Factor analysis/correlation          Number of obs   =    302
Method: principal factors            Retained factors =     6
Rotation: orthogonal varimax (Kaiser off) Number of params =   129

```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.81026	0.46877	0.2165	0.2165
Factor2	2.34149	0.46116	0.1804	0.3970
Factor3	1.88033	0.01181	0.1449	0.5418
Factor4	1.86852	0.03651	0.1440	0.6858
Factor5	1.83201	0.01881	0.1412	0.8270
Factor6	1.81319	.	0.1397	0.9667

```
LR test: independent vs. saturated: chi2(276) = 3929.49 Prob>chi2 = 0.0000
```

```
Rotated factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Uniqueness						
trgovw1			0.7414			
0.4260						
ecprw1			0.4960			
0.6583						
polprw1	0.5993		0.3756			
0.4030						
airw1	0.5666		0.3346			
0.5022						
radchw1				0.8180		
0.3029						
healthef		0.9689				
0.0328						
HP2vacatn						0.6201
0.5618						
shhousw1	0.3776					

>	0.7054			
	trrepw1		0.7301	
>	0.4169			
	childw1			0.3938
>	0.8008			
	radtlw1		0.6634	
>	0.5022			
	goferw1	0.6305		
>	0.5021			
	goferw2	0.5080		
>	0.4991			
	fdferw1	0.7638		
>	0.2939			
	fdferw2	0.5910	0.3070	
>	0.3934			
	smokw1			0.5092
>	0.7253			
	liqw1			0.8237
>	0.3027			
	liqw2			0.7241
>	0.4524			
	WHPel			0.5765
>	0.6215			
	WHPpa			0.5530
>	0.5701			
	HP2probsoc			0.6764
>	0.4467			
	radchw3		0.7290	
>	0.4157			
	Havmil			
>	0.8824			
	carcin	0.9660		
>	0.0364			

(blanks represent abs(loading)<.3)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor1	0.7032	0.5357	0.1920	-0.0773	0.0953	0.4082
Factor2	-0.3129	0.2754	0.7004	0.2317	0.4830	-0.2206
Factor3	0.1922	0.0078	0.1622	0.7811	-0.5539	-0.1404
Factor4	0.1150	-0.5378	-0.0663	0.4353	0.4989	0.5047
Factor5	-0.2280	0.5599	-0.6460	0.3745	0.2757	-0.0317
Factor6	-0.5527	0.1855	0.1568	-0.0218	-0.3548	0.7136

```

266 .
267 .
268 .
269 .
270 .  // polychoric corr matrices are input owing to dichotomous variables inclu
> ded
271 .  subtitle "Male variable  index for waves 1 2 and 3"

```

```

                                Date and time:  26 Apr 2012    12:44:55
                                Stata version:  12.1
                                Operating system: MacOSX    10.6.8  on
>  Macintosh (Intel 64-bit)  with  4  processors
                                using  33554432 bytes of memory
                                Working directory:  /Users/robertyaffee
>  /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide22apr2012males.
>  dta
                                data file has  2180  variables
                                and  340  observations

```

Male variable index for waves 1 2 and 3

```

272 .  des  trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn  ///
>  shhousw1 trrepw1 childw1 radtlw1  illw2 emplw12 emplw13 emplw16 emplw23  //
>  /
>  emplw24 inc4w1 deaw1 cataw3  movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
>  2  ///
>  ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
>  avmil  ///
>  carcin

```

variable name	storage type	display format	value label	variable label
trgovw1	double			level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	double			consider hazardous (in percent) - economic problems in 1986
polprw1	double			consider hazardous (in percent) - political problems in 1986
airw1	double			consider hazardous (in percent) - air and water pollution in 1986
radchw1	double			believed % of polution related to chornobyl in 1986
dauthw3	double			level of danger by authorities (in percent) NOW
healthef	double			a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	double		choice1732	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	double			Percentage of strains and hassles related to housing in 1986
trrepw1	double			level of trust in medical/scientific reports about chornobyl in time period 197
childw1	double			number of children in 1986
radtlw1	double			believed % of cumulative radiation exposed to in a lifetime in 1986
illw2	double			Total number of illnesses experienced in time period 1987-1996
emplw12	double			emplw1==1. full time
emplw13	double			emplw1==2. part time
emplw16	double			emplw1==5. unemployed
emplw23	double			emplw2==2. part time
emplw24	double			emplw2==3. voluntary
inc4w1	double		choice117	Income allows to comfortably afford luxury items in 1986
deaw1	double			Total number of death experienced in time period 1986
cataw3	double			Total number of disasters

			experienced in time period 1996-NOW
movew2	double		Total number of moves experienced in time period 1987-1996
mhlthw2	double		level of general psychological/mental health in 1996
goferw1	double		level of fear in percent from going outdoors in 1976-1986
goferw2	double		level of fear in percent from going outdoors in 1987-1996
fdferw1	double		level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	double		level of fear in percent from consuming foods contaminated with radiation in 198
ncontw3	double	choice311	use of natural contraception in 1997-now
pillw1	double		number of pills for pain per week in 1976-1986
pillw3	double		number of pills for pain per week in 1997-now
smokw1	double		number of cigarettes per week in 1976-1986
liqw1	double		number of spirits per week in 1976-1986
liqw2	double		number of spirits per week in 1987-1996
WHPel	double		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	double		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	double	choice1728	Hlth profile Pt2: Hlth causing probs with social life believed % of polution related to chornobyl NOW
radchw3	double		
Havmil	double		* Distance from Chornobyl in miles
carcin	double		a person exposed to carcinogen is likely to get cancer (% of agreement)

```

273 .
274 .
275 . subtitle " summary statistics of variables used in male analysis "

```

```

Date and time: 26 Apr 2012    12:44:55
Stata version: 12.1
Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
    using 33554432 bytes of memory
    Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
    Stata data file: chwide22apr2012males.
> dta
    data file has 2180 variables
    and 340 observations

```

summary statistics of variables used in male analysis

```

276 . summ  trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin

```

Variable	Obs	Mean	Std. Dev.	Min	Max
trgovw1	306	32.92157	36.0737	0	100
ecprw1	340	27.51471	33.22698	0	100
polprw1	340	61.33529	38.49077	0	100
airw1	340	61.39706	36.32179	0	100
radchw1	340	53.09118	35.79325	0	100
dauthw3	339	52.55162	35.45427	0	100
healthef	340	66.52647	30.04553	0	100
HP2vacatn	340	.1205882	.3261281	0	1
shhousw1	340	27.86176	35.13289	0	100
trrepw1	306	37.56536	34.97827	0	100
childw1	339	.7492625	.8998476	0	3
radtlw1	339	53.52507	36.40715	0	100
illw2	340	.2823529	.5922163	0	4
emplw12	340	.6647059	.472789	0	1
emplw13	340	.1382353	.3456555	0	1
emplw16	340	.1852941	.3891086	0	1


```

*****                               Specific                               *****
> *
*****                               male                               *****
> *
*****                               factor                               *****
> *
*****                               analysis)                               *****
> *
*****                               *****
> *
*****                               *****
> *
*****                               26 Apr 2012    12:44:55    *****
> *
*****
> *
*****
> *

```

```

282 .
283 . di "Male sample size = ",_N
    Male sample size = 340

284 . di c(filename)
    chwide22apr2012males.dta

285 .
286 .
287 . subtitle "wave specific factor analysis for wave one"

```

```

                                Date and time: 26 Apr 2012    12:44:55
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2180 variables
                                and 340 observations

```

```

wave specific factor analysis for wave one

```

```

288 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1  ///
    >  shhousw1 trrepw1  radtlw1  ///
    >  goferw1  fdferw1  Havmil, factors(3)
    (obs=305)

```

```

Factor analysis/correlation
  Method: principal factors
  Rotation: (unrotated)
Number of obs   =   305
Retained factors =    3
Number of params =   30

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.41226	0.95640	0.5057	0.5057
Factor2	1.45586	0.32045	0.3052	0.8108
Factor3	1.13541	0.59151	0.2380	1.0489
Factor4	0.54389	0.44054	0.1140	1.1629
Factor5	0.10336	0.06358	0.0217	1.1845
Factor6	0.03978	0.15232	0.0083	1.1929
Factor7	-0.11255	0.04816	-0.0236	1.1693
Factor8	-0.16071	0.01246	-0.0337	1.1356
Factor9	-0.17317	0.04134	-0.0363	1.0993
Factor10	-0.21451	0.04463	-0.0450	1.0543
Factor11	-0.25914	.	-0.0543	1.0000

LR test: independent vs. saturated: chi2(55) = 1086.09 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1	0.4234	0.6480	-0.0050	0.4008
ecprw1	0.5223	0.2425	-0.0195	0.6680
polprw1	0.7296	-0.0783	0.1703	0.4326
airw1	0.6370	-0.0882	0.1013	0.5762
radchw1	0.0126	-0.0417	0.7036	0.5030
shhousw1	0.4750	-0.0215	-0.1291	0.7573
trrepw1	0.4104	0.6459	0.0967	0.4050
radtlw1	0.1286	-0.2667	0.6603	0.4763
goferw1	0.4798	-0.4774	-0.2176	0.4945
fdferw1	0.6136	-0.4257	-0.2536	0.3780
Havmil	-0.0693	0.2521	-0.1644	0.9046

289 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	305
Method: principal factors	Retained factors	=	3
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	30

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.09392	0.35281	0.4389	0.4389
Factor2	1.74111	0.57264	0.3650	0.8039
Factor3	1.16848	.	0.2449	1.0489

LR test: independent vs. saturated: chi2(55) = **1086.09** Prob>chi2 = **0.0000**

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1		0.7702		0.4008
ecprw1		0.4863		0.6680
polprw1	0.6072			0.4326
airw1	0.5506			0.5762
radchw1			0.6940	0.5030
shhousw1	0.4311			0.7573
trrepw1		0.7708		0.4050
radtlw1			0.7104	0.4763
goferw1	0.6918			0.4945
fdferw1	0.7830			0.3780
Havmil				0.9046

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3
Factor1	0.8260	0.5488	0.1284
Factor2	-0.5218	0.8308	-0.1937
Factor3	-0.2130	0.0930	0.9726

```

290 .
291 .
292 . subtitle "Polychoric factor analysis of males for wave 1"

```

```

                                Date and time: 26 Apr 2012    12:44:55
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2180 variables
                                and 340 observations

```

Polychoric factor analysis of males for wave 1

```

293 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1  ///
> shhousw1 trrepw1 radtlw1  ///
> goferw1 fdferw1 Havmil

```

Polychoric correlation matrix

	trgovw1	ecprw1	polprw1	airw1	radchw1	shhous
> w1	trrepw1	radtlw1	goferw1			
trgovw1	1					
ecprw1	.32658756	1				
polprw1	.2120079	.39394219	1			
airw1	.12195842	.38113478	.68600874	1		
radchw1	.00443581	-.03321201	.08649463	.03995279	1	
shhousw1	.20496168	.32014236	.26851183	.22539861	-.09568715	
> 1	trrepw1	.72025615	.35178219	.20972582	.1180297	.09276925
> 89	1	radtlw1	-.08882031	-.02632107	.21450651	.09948013
			.59877719	.019681		
> 51	-.05536888	1	goferw1	-.04674617	.08172513	.26961717
				.19959925	-.08985654	.298566
> 28	-.06719678	.10111156	1	fdferw1	.05480878	.17276628
					.39765402	.32888683
> 07	-.01048062	.04613205	.7020435	Havmil	.17566992	.06492191
					-.05328385	-.04081052
> 26	.0259043	-.21284848	-.11644613		-.12149305	-.080067
	fdferw1	Havmil				
fdferw1	1					
Havmil	-.1463454	1				

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.933167	0.266652	0.266652
2	1.950166	0.177288	0.443939
3	1.704114	0.154919	0.598859
4	1.068097	0.097100	0.695959
5	0.865129	0.078648	0.774607
6	0.737843	0.067077	0.841683
7	0.553751	0.050341	0.892024
8	0.378805	0.034437	0.926461
9	0.292581	0.026598	0.953059
10	0.282950	0.025723	0.978782
11	0.233397	0.021218	1.000000

294 . matrix define mypchoriclwsm = r(R)

295 . factormat mypchoriclwsm, n(340) factors(3) blanks(.36)
(obs=340)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	3
Rotation: (unrotated)	Number of params	=	30

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.41226	0.95640	0.5057	0.5057
Factor2	1.45586	0.32045	0.3052	0.8108
Factor3	1.13541	0.59151	0.2380	1.0489
Factor4	0.54389	0.44054	0.1140	1.1629
Factor5	0.10336	0.06358	0.0217	1.1845
Factor6	0.03978	0.15232	0.0083	1.1929
Factor7	-0.11255	0.04816	-0.0236	1.1693
Factor8	-0.16071	0.01246	-0.0337	1.1356
Factor9	-0.17317	0.04134	-0.0363	1.0993
Factor10	-0.21451	0.04463	-0.0450	1.0543
Factor11	-0.25914	.	-0.0543	1.0000

LR test: independent vs. saturated: chi2(55) = 1212.59 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1	0.4234	0.6480		0.4008
ecprw1	0.5223			0.6680
polprw1	0.7296			0.4326
airw1	0.6370			0.5762
radchw1			0.7036	0.5030
shhousw1	0.4750			0.7573
trrepw1	0.4104	0.6459		0.4050
radtlw1			0.6603	0.4763
goferw1	0.4798	-0.4774		0.4945
fdferw1	0.6136	-0.4257		0.3780
Havmil				0.9046

(blanks represent abs(loading)<.36)

296 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	3
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	30

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.09392	0.35281	0.4389	0.4389
Factor2	1.74111	0.57264	0.3650	0.8039
Factor3	1.16848	.	0.2449	1.0489

LR test: independent vs. saturated: chi2(55) = **1212.59** Prob>chi2 = **0.0000**

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1		0.7702		0.4008
ecprw1		0.4863		0.6680
polprw1	0.6072			0.4326
airw1	0.5506			0.5762
radchw1			0.6940	0.5030
shhousw1	0.4311			0.7573
trrepw1		0.7708		0.4050
radtlw1			0.7104	0.4763
goferw1	0.6918			0.4945
fdferw1	0.7830			0.3780
Havmil				0.9046

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2	Factor3
Factor1	0.8260	0.5488	0.1284
Factor2	-0.5218	0.8308	-0.1937
Factor3	-0.2130	0.0930	0.9726

```
297 .
298 .
299 .
300 .
301 . subtitle "Specific wave two male factor analysis"
```

```
                                Date and time: 26 Apr 2012   12:44:56
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2180 variables
                                and 340 observations
```

Specific wave two male factor analysis

```
302 . factor  trgovw2 ecprw2 polprw2 airw2   ///
>   shhousw2 trrepw2   ///
>   goferw2 fdferw2 , factors(2)
(obs=306)
```

Factor analysis/correlation	Number of obs	=	306
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	15

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.90566	0.67342	0.6145	0.6145
Factor2	1.23224	0.54917	0.3973	1.0118
Factor3	0.68306	0.69664	0.2203	1.2321
Factor4	-0.01358	0.06920	-0.0044	1.2277
Factor5	-0.08278	0.09064	-0.0267	1.2010
Factor6	-0.17342	0.00835	-0.0559	1.1451
Factor7	-0.18177	0.08645	-0.0586	1.0865
Factor8	-0.26822	.	-0.0865	1.0000

LR test: independent vs. saturated: $\chi^2(28) = 658.24$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
trgovw2	0.5152	-0.4906	0.4938
ecprw2	0.6539	-0.0157	0.5721
polprw2	0.5663	0.0764	0.6735
airw2	0.5660	-0.0429	0.6779
shhousw2	0.4299	0.1356	0.7968
trrepw2	0.3894	-0.5416	0.5550
goferw2	0.3273	0.5897	0.5451
fdferw2	0.3578	0.5693	0.5479

303 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs =	306
Method: principal factors	Retained factors =	2
Rotation: orthogonal varimax (Kaiser off)	Number of params =	15

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.66855	0.19921	0.5380	0.5380
Factor2	1.46934	.	0.4738	1.0118

LR test: independent vs. saturated: $\chi^2(28) = 658.24$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
trgovw2	0.7058		0.4938
ecprw2	0.5357	0.3753	0.5721
polprw2	0.4105	0.3975	0.6735
airw2	0.4810		0.6779
shhousw2		0.3642	0.7968
trrepw2	0.6348		0.5550
goferw2		0.6689	0.5451
fdferw2		0.6706	0.5479

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.8049	0.5934
Factor2	-0.5934	0.8049

```

304 .
305 . subtitle "Polychoric correlation matrix input to factor analysis of males in
> waves 1 and 2"

```

```

Date and time: 26 Apr 2012    12:44:56
Stata version: 12.1
Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
    using 33554432 bytes of memory
    Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
    Stata data file: chwide22apr2012males.
> dta
    data file has 2180 variables
    and 340 observations

```

Polychoric correlation matrix input to factor analysis of males in waves 1 and
> 2

```

306 .
307 . polychoricpca trgovw2 ecprw2 polprw2 airw2   ///
    >   shhousw2 trrepw2 goferw2 fdferw2

```

Polychoric correlation matrix

```

          trgovw2      ecprw2      polprw2      airw2      shhousw2      trrep
> w2      goferw2      fdferw2
trgovw2          1
ecprw2      .27323706          1
polprw2      .13690954      .48880322          1
airw2      .21060598      .5292255      .45467117          1
shhousw2      .19762938      .26868772      .26915531      .19285383          1
trrepw2      .67369293      .16015571      .08584087      .11814963      .09894588
> 1
goferw2      -.05624819      .10834355      .16422605      .03943388      .2629041      -.052583
> 36          1
fdferw2      .03724609      .162702      .13583663      .09339188      .23109497      -.103460
> 33      .63716107          1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.532237	0.316530	0.316530
2	1.771480	0.221435	0.537965
3	1.262048	0.157756	0.695721
4	0.764793	0.095599	0.791320
5	0.556209	0.069526	0.860846
6	0.460940	0.057618	0.918463
7	0.390395	0.048799	0.967263
8	0.261898	0.032737	1.000000

```

308 . matrix define mypchoric2wsm= r(R)

```

```

309 . factormat mypchoric2wsm, n(340) factors(2) blanks(.36)
    (obs=340)

```

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	15

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.90566	0.67342	0.6145	0.6145
Factor2	1.23224	0.54917	0.3973	1.0118
Factor3	0.68306	0.69664	0.2203	1.2321
Factor4	-0.01358	0.06920	-0.0044	1.2277
Factor5	-0.08278	0.09064	-0.0267	1.2010
Factor6	-0.17342	0.00835	-0.0559	1.1451
Factor7	-0.18177	0.08645	-0.0586	1.0865
Factor8	-0.26822	.	-0.0865	1.0000

LR test: independent vs. saturated: $\chi^2(28) = 732.22$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
trgovw2	0.5152	-0.4906	0.4938
ecprw2	0.6539		0.5721
polprw2	0.5663		0.6735
airw2	0.5660		0.6779
shhousw2	0.4299		0.7968
trrepw2	0.3894	-0.5416	0.5550
goferw2		0.5897	0.5451
fdferw2		0.5693	0.5479

(blanks represent $\text{abs}(\text{loading}) < .36$)

310 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	15

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.66855	0.19921	0.5380	0.5380
Factor2	1.46934	.	0.4738	1.0118

LR test: independent vs. saturated: $\chi^2(28) = 732.22$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
trgovw2	0.7058		0.4938
ecprw2	0.5357	0.3753	0.5721
polprw2	0.4105	0.3975	0.6735
airw2	0.4810		0.6779
shhousw2		0.3642	0.7968
trrepw2	0.6348		0.5550
goferw2		0.6689	0.5451
fdferw2		0.6706	0.5479

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.8049	0.5934
Factor2	-0.5934	0.8049

```

311 .
312 .
313 .
314 .
315 . subtitle "Specific wave three male factor analysis"

```

```

                                Date and time:  26 Apr 2012    12:44:56
                                Stata version:  12.1
                                Operating system: MacOSX  10.6.8  on
>  Macintosh (Intel 64-bit)  with  4  processors
                                using  33554432 bytes of memory
                                Working directory:  /Users/robertyaffee
>  /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide22apr2012males.
>  dta
                                data file has  2180  variables
                                and  340  observations

```

Specific wave three male factor analysis

```

316 . factor  healthef HP2vacatn HP2probsoc cataw3 pillw3 WHPel WHPpa  ///
>      radchw3, factors(2)
(obs=340)

```

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	15

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	1.69587	1.28132	0.9927	0.9927
Factor2	0.41455	0.19458	0.2427	1.2354
Factor3	0.21998	0.19178	0.1288	1.3641
Factor4	0.02820	0.09193	0.0165	1.3807
Factor5	-0.06373	0.04862	-0.0373	1.3433
Factor6	-0.11236	0.08882	-0.0658	1.2776
Factor7	-0.20118	0.07184	-0.1178	1.1598
Factor8	-0.27301	.	-0.1598	1.0000

LR test: independent vs. saturated: $\chi^2(28) = 395.87$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef	0.1128	0.1948	0.9493
HP2vacatn	0.6376	-0.2342	0.5387
HP2probsoc	0.6851	-0.2158	0.4840
cataw3	0.0016	0.1435	0.9794
pillw3	0.1589	0.0009	0.9747
WHPel	0.6420	0.1633	0.5611
WHPpa	0.6081	0.2771	0.5534
radchw3	0.0038	0.3887	0.8489

317 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	15

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.54933	0.98823	0.9069	0.9069
Factor2	0.56110	.	0.3285	1.2354

LR test: independent vs. saturated: $\chi^2(28) = 395.87$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef			0.9493
HP2vacatn	0.6792		0.5387
HP2probsoc	0.7177		0.4840
cataw3			0.9794
pillw3			0.9747
WHPel	0.5490	0.3708	0.5611
WHPpa	0.4785	0.4664	0.5534
radchw3		0.3671	0.8489

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.9411	0.3382
Factor2	-0.3382	0.9411

```

318 .
319 .
320 . polychoricpca healthef HP2vacatn HP2probsoc pillw3 WHPel WHPpa ///
> radchw3

```

Polychoric correlation matrix

```

          healthef  HP2vacatn  HP2probsoc      pillw3      WHPel      W
> HPpa      radchw3
  healthef          1
  HP2vacatn    .03941102          1
  HP2probsoc    .13055563    .84729943          1
      pillw3   -.13212427    .08492368    .13462628          1
      WHPel    .12420834    .55627457    .60899671    .20699261          1
      WHPpa    .13060773    .40910931    .45216528    .07231754    .49833997
>      1
      radchw3    .10350905   -.14722382   -.18505067    .02800855    .02660048    .1765
> 1723          1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.767208	0.395315	0.395315
2	1.235963	0.176566	0.571882
3	1.103745	0.157678	0.729559
4	0.794753	0.113536	0.843095
5	0.531992	0.075999	0.919094
6	0.426279	0.060897	0.979991
7	0.140060	0.020009	1.000000

```

321 . matrix define mypchoric3wsm=r(R)

```

```

322 . factormat mypchoric3wsm, factors(2) n(340) blanks(.36)
      (obs=340)

```

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: (unrotated)	Number of params	=	13

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.37612	1.90445	0.9143	0.9143
Factor2	0.47167	0.24826	0.1815	1.0957
Factor3	0.22341	0.23774	0.0860	1.1817
Factor4	-0.01433	0.08984	-0.0055	1.1762
Factor5	-0.10416	0.02161	-0.0401	1.1361
Factor6	-0.12577	0.10223	-0.0484	1.0877
Factor7	-0.22800	.	-0.0877	1.0000

LR test: independent vs. saturated: $\chi^2(21) = 791.83$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef			0.9388
HP2vacatn	0.8536		0.2306
HP2probsoc	0.9006		0.1618
pillw3			0.9748
WHPel	0.7005		0.4727
WHPpa	0.5485		0.5809
radchw3		0.4498	0.7926

(blanks represent $\text{abs}(\text{loading}) < .36$)

323 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	2
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	13

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.28048	1.71317	0.8775	0.8775
Factor2	0.56731	.	0.2183	1.0957

LR test: independent vs. saturated: $\chi^2(21) = 791.83$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Uniqueness
healthef			0.9388
HP2vacatn	0.8772		0.2306
HP2probsoc	0.9146		0.1618
pillw3			0.9748
WHPel	0.6398		0.4727
WHPpa	0.4575	0.4580	0.5809
radchw3		0.4223	0.7926

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2
Factor1	0.9746	0.2241
Factor2	-0.2241	0.9746

```

324 .
325 . di "{hline}"

326 . title( ***** Cumulative dynamic factor analysis*****
> *****)

*****
> *
*****
> *
***** *****
> *
***** *****
> *
***** ( *****
> *
***** *****
> *
***** Cumulative *****
> *
***** dynamic *****
> *
***** factor *****
> *
***** analysis*****

```

```

> *
*****
> *
*****
> *
*****
26 Apr 2012 12:44:59
> *
*****
> *
*****
> *

```

327 .

328 . subtitle "Male wave 1 radfmw1 explanatory variable index"

```

Date and time: 26 Apr 2012 12:44:59
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012males.
> dta
data file has 2180 variables
and 340 observations

```

Male wave 1 radfmw1 explanatory variable index

```

329 . des trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 radtlw1 ///
> goferw1 fdferw1 Havmil

```

variable name	storage type	display format	value label	variable label
trgovw1	double			level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	double			consider hazardous (in percent) - economic problems in 1986
polprw1	double			consider hazardous (in percent) - political problems in 1986
airw1	double			consider hazardous (in percent) - air and water pollution in 1986

radchw1	double	believed % of polution related to chornobyl in 1986
shhousw1	double	Percentage of strains and hassles related to housing in 1986
trrepw1	double	level of trust in medical/scientific reports about chornobyl in time period 197
radtlw1	double	believed % of cumulative radiation exposed to in a lifetime in 1986
goferw1	double	level of fear in percent from going outdoors in 1976-1986
fdferw1	double	level of fear in percent from consuming foods contaminated with radiation in 197
Havmil	double	* Distance from Chornobyl in miles

```

330 .
331 . vselect radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1  ///
> shhousw1 trrepw1 radtlw1  ///
> goferw1 fdferw1 Havmil, backward r2adj
35 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 radt
> lw1 goferw1 fdferw1 Havmil : R2ADJ -.4356445

```

R2ADJ -.4348207 :	remove	trgovw1
R2ADJ -.434504 :	remove	ecprw1
R2ADJ -.4233571 :	remove	polprw1
R2ADJ -.4142994 :	remove	airw1
R2ADJ -.4347871 :	remove	radchw1
R2ADJ -.3843728 :	remove	shhousw1
R2ADJ -.4356257 :	remove	trrepw1
R2ADJ -.4027161 :	remove	radtlw1
R2ADJ -.424359 :	remove	goferw1
R2ADJ -.400822 :	remove	fdferw1
R2ADJ -.4364795 :	remove	Havmil

```

Stage 1 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 radt
> lw1 goferw1 fdferw1 : R2ADJ -.4364795

```

R2ADJ -.4362781 :	remove	trgovw1
R2ADJ -.4350408 :	remove	ecprw1

```

R2ADJ -.4240711 :      remove    polprw1
R2ADJ -.4153186 :      remove      airw1
R2ADJ -.4355636 :      remove    radchw1
R2ADJ -.3862184 :      remove    shhousw1
R2ADJ -.4358815 :      remove    trrepw1
R2ADJ -.4047067 :      remove    radtlw1
R2ADJ -.4254355 :      remove    goferw1
R2ADJ -.4027745 :      remove    fdferw1

```

Final Model

Source	SS	df	MS	Number of obs =	305
Model	171174.684	10	17117.4684	F(10, 294) =	24.55
Residual	205019.907	294	697.346621	Prob > F =	0.0000
				R-squared =	0.4550
				Adj R-squared =	0.4365
Total	376194.59	304	1237.4822	Root MSE =	26.407

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	-.0648202	.0616519	-1.05	0.294	-.1861552	.0565149
ecprw1	.0722385	.054558	1.32	0.187	-.0351353	.1796123
polprw1	.1731617	.0632477	2.74	0.007	.048686	.2976374
airw1	.2014742	.0579735	3.48	0.001	.0873786	.3155698
radchw1	-.0671569	.0552132	-1.22	0.225	-.17582	.0415062
shhousw1	.2541832	.0486379	5.23	0.000	.1584606	.3499058
trrepw1	-.0740941	.0646614	-1.15	0.253	-.2013521	.0531638
radtlw1	.2338535	.0556906	4.20	0.000	.1242506	.3434563
goferw1	-.1664873	.0639322	-2.60	0.010	-.2923102	-.0406645
fdferw1	.2498818	.057871	4.32	0.000	.1359879	.3637757
_cons	8.449878	4.138863	2.04	0.042	.3043245	16.59543

```

332 .
333 . sw, pr(.1): regress radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1   ///
>   shhousw1 trrepw1  radtlw1   ///
>   goferw1  fdferw1  Havmil
                        begin with full model
p = 0.4529 >= 0.1000 removing Havmil
p = 0.2939 >= 0.1000 removing trgovw1
p = 0.2388 >= 0.1000 removing radchw1
p = 0.1947 >= 0.1000 removing ecprw1

```

Source	SS	df	MS	Number of obs = 305		
Model	168251.627	7	24035.9468	F(7, 297) = 34.33		
Residual	207942.963	297	700.144655	Prob > F = 0.0000		
Total	376194.59	304	1237.4822	R-squared = 0.4472		
				Adj R-squared = 0.4342		
				Root MSE = 26.46		

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
fdferw1	.2512744	.0575978	4.36	0.000	.1379229	.3646258
radtlw1	.1915431	.0439881	4.35	0.000	.1049752	.278111
polprw1	.1822364	.0626159	2.91	0.004	.0590093	.3054635
airw1	.2133769	.0571369	3.73	0.000	.1009325	.3258213
goferw1	-.1602545	.0637166	-2.52	0.012	-.2856478	-.0348613
shhousw1	.2690698	.0474025	5.68	0.000	.1757824	.3623572
trrepw1	-.1127011	.0457158	-2.47	0.014	-.2026691	-.0227331
_cons	6.555286	3.979964	1.65	0.101	-1.277219	14.38779

```

334 .
335 .
336 . subtitle "Specific wave one male factor analysis"

```

```

                                Date and time: 26 Apr 2012   12:45:00
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2180 variables
                                and 340 observations

```

Specific wave one male factor analysis

```

337 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1  ///
    >  shhousw1 trrepw1  radtlw1  ///
    >  goferw1  fdferw1  Havmil, factors(3)
(obs=305)

```

Factor analysis/correlation	Number of obs	=	305
Method: principal factors	Retained factors	=	3
Rotation: (unrotated)	Number of params	=	30

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.41226	0.95640	0.5057	0.5057
Factor2	1.45586	0.32045	0.3052	0.8108
Factor3	1.13541	0.59151	0.2380	1.0489
Factor4	0.54389	0.44054	0.1140	1.1629
Factor5	0.10336	0.06358	0.0217	1.1845
Factor6	0.03978	0.15232	0.0083	1.1929
Factor7	-0.11255	0.04816	-0.0236	1.1693
Factor8	-0.16071	0.01246	-0.0337	1.1356
Factor9	-0.17317	0.04134	-0.0363	1.0993
Factor10	-0.21451	0.04463	-0.0450	1.0543
Factor11	-0.25914	.	-0.0543	1.0000

LR test: independent vs. saturated: $\chi^2(55) = 1086.09$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1	0.4234	0.6480	-0.0050	0.4008
ecprw1	0.5223	0.2425	-0.0195	0.6680
polprw1	0.7296	-0.0783	0.1703	0.4326
airw1	0.6370	-0.0882	0.1013	0.5762
radchw1	0.0126	-0.0417	0.7036	0.5030
shhousw1	0.4750	-0.0215	-0.1291	0.7573
trrepw1	0.4104	0.6459	0.0967	0.4050
radtlw1	0.1286	-0.2667	0.6603	0.4763
goferw1	0.4798	-0.4774	-0.2176	0.4945
fdferw1	0.6136	-0.4257	-0.2536	0.3780
Havmil	-0.0693	0.2521	-0.1644	0.9046

338 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	305
Method: principal factors	Retained factors	=	3
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	30

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.09392	0.35281	0.4389	0.4389
Factor2	1.74111	0.57264	0.3650	0.8039
Factor3	1.16848	.	0.2449	1.0489

LR test: independent vs. saturated: chi2(55) = **1086.09** Prob>chi2 = **0.0000**

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1		0.7702		0.4008
ecprw1		0.4863		0.6680
polprw1	0.6072			0.4326
airw1	0.5506			0.5762
radchw1			0.6940	0.5030
shhousw1	0.4311			0.7573
trrepw1		0.7708		0.4050
radtlw1			0.7104	0.4763
goferw1	0.6918			0.4945
fdferw1	0.7830			0.3780
Havmil				0.9046

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3
Factor1	0.8260	0.5488	0.1284
Factor2	-0.5218	0.8308	-0.1937
Factor3	-0.2130	0.0930	0.9726

```

339 .
340 . subtitle "Polychoric factor analysis of males for wave 1"

```

```

                                Date and time: 26 Apr 2012    12:45:00
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2180 variables
                                and 340 observations

```

Polychoric factor analysis of males for wave 1

```

341 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1   ///
>   shhousw1 trrepw1  radtlw1   ///
>   goferw1  fdferw1  Havmil

```

Polychoric correlation matrix

	trgovw1	ecprw1	polprw1	airw1	radchw1	shhous
> w1						
trgovw1	1					
ecprw1	.32658756	1				
polprw1	.2120079	.39394219	1			
airw1	.12195842	.38113478	.68600874	1		
radchw1	.00443581	-.03321201	.08649463	.03995279	1	
shhousw1	.20496168	.32014236	.26851183	.22539861	-.09568715	
> 1						
trrepw1	.72025615	.35178219	.20972582	.1180297	.09276925	.184412
> 89						
radtlw1	-.08882031	-.02632107	.21450651	.09948013	.59877719	.019681
> 51						
goferw1	-.05536888	.08172513	.26961717	.19959925	-.08985654	.298566
> 28						
fdferw1	-.06719678	.10111156	.39765402	.32888683	-.13486364	.354918
> 07						
Havmil	-.01048062	.04613205	.7020435	-.04081052	-.12149305	-.080067
> 26						
	.0259043	-.21284848	-.11644613			
	fdferw1	Havmil				
fdferw1	1					
Havmil	-.1463454	1				

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	2.933167	0.266652	0.266652
2	1.950166	0.177288	0.443939
3	1.704114	0.154919	0.598859
4	1.068097	0.097100	0.695959
5	0.865129	0.078648	0.774607
6	0.737843	0.067077	0.841683
7	0.553751	0.050341	0.892024
8	0.378805	0.034437	0.926461
9	0.292581	0.026598	0.953059
10	0.282950	0.025723	0.978782
11	0.233397	0.021218	1.000000

```
342 . matrix define mypchoriclwsm = r(R)
```

```
343 . factormat mypchoriclwsm, n(340) factors(3) blanks(.36)
(obs=340)
```

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	3
Rotation: (unrotated)	Number of params	=	30

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.41226	0.95640	0.5057	0.5057
Factor2	1.45586	0.32045	0.3052	0.8108
Factor3	1.13541	0.59151	0.2380	1.0489
Factor4	0.54389	0.44054	0.1140	1.1629
Factor5	0.10336	0.06358	0.0217	1.1845
Factor6	0.03978	0.15232	0.0083	1.1929
Factor7	-0.11255	0.04816	-0.0236	1.1693
Factor8	-0.16071	0.01246	-0.0337	1.1356
Factor9	-0.17317	0.04134	-0.0363	1.0993
Factor10	-0.21451	0.04463	-0.0450	1.0543
Factor11	-0.25914	.	-0.0543	1.0000

LR test: independent vs. saturated: $\chi^2(55) = 1212.59$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1	0.4234	0.6480		0.4008
ecprw1	0.5223			0.6680
polprw1	0.7296			0.4326
airw1	0.6370			0.5762
radchw1			0.7036	0.5030
shhousw1	0.4750			0.7573
trrepw1	0.4104	0.6459		0.4050
radtlw1			0.6603	0.4763
goferw1	0.4798	-0.4774		0.4945
fdferw1	0.6136	-0.4257		0.3780
Havmil				0.9046

(blanks represent abs(loading)<.36)

344 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	3
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	30

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.09392	0.35281	0.4389	0.4389
Factor2	1.74111	0.57264	0.3650	0.8039
Factor3	1.16848	.	0.2449	1.0489

LR test: independent vs. saturated: chi2(55) = **1212.59** Prob>chi2 = **0.0000**

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Uniqueness
trgovw1		0.7702		0.4008
ecprw1		0.4863		0.6680
polprw1	0.6072			0.4326
airw1	0.5506			0.5762
radchw1			0.6940	0.5030
shhousw1	0.4311			0.7573
trrepw1		0.7708		0.4050
radtlw1			0.7104	0.4763
goferw1	0.6918			0.4945
fdferw1	0.7830			0.3780
Havmil				0.9046

Factor rotation matrix

	Factor1	Factor2	Factor3
Factor1	0.8260	0.5488	0.1284
Factor2	-0.5218	0.8308	-0.1937
Factor3	-0.2130	0.0930	0.9726

```
345 .
346 . use chwide22apr2012females, clear
347 .
348 . title(Female respondents - Cumulative wave dynamic factor analysis)
```

```
*****
> *
*****
> *
*****
> *
*****
(Female
respondents
-
Cumulative
wave
dynamic
factor
analysis)
*****
> *
*****
> *
*****
> *
*****
26 Apr 2012    12:45:01
> *
```

```
*****
> *
*****
> *
```

```
349 . set more off
```

```
350 .
```

```
351 . di "Female sample size = ",_N
    Female sample size = 363
```

```
352 . di c(filename)
    chwide22apr2012females.dta
```

```
353 .
```

```
354 .
```

```
355 . subtitle "***** cumulative waves for females in wave 1 "
```

```

                                Date and time: 26 Apr 2012   12:45:01
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations
```

```
***** cumulative waves for females in wave 1
```

```
356 . des trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16 ///
> emplw24 inc4w1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 liqw1 Havmil
```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
emplw12	byte	%8.0g		emplw1==1. full time
emplw16	byte	%8.0g		emplw1==5. unemployed
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
pillw1	byte	%8.0g		number of pills for pain per week in 1976-1986
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
liqw1	byte	%8.0g		number of spirits per week in 1976-1986
Havmil	float	%9.0g		Distance from Chornobyl in miles

```

357 .
358 . vselect radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1   ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16   ///
>   emplw24 inc4w1 deaw1 goferw1 fdferw1   ///
>   pillw1 smokw1 liqw1 Havmil, backward r2adj
96 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smok
> w1 liqw1 Havmil : R2ADJ -.3504741

```

R2ADJ -.3503094 :	remove	trgovw1
R2ADJ -.3317881 :	remove	ecprw1
R2ADJ -.3389534 :	remove	polprw1
R2ADJ -.3530603 :	remove	airw1
R2ADJ -.3282133 :	remove	radchw1
R2ADJ -.3400659 :	remove	shhousw1
R2ADJ -.3489049 :	remove	trrepw1
R2ADJ -.3523093 :	remove	childw1
R2ADJ -.3319358 :	remove	radtlw1
R2ADJ -.3518557 :	remove	emplw12
R2ADJ -.3525857 :	remove	emplw16
R2ADJ -.3455388 :	remove	emplw24
R2ADJ -.3512206 :	remove	inc4w1
R2ADJ -.3506228 :	remove	deaw1
R2ADJ -.3514923 :	remove	goferw1
R2ADJ -.3528801 :	remove	fdferw1
R2ADJ -.3492119 :	remove	pillw1
R2ADJ -.3520524 :	remove	smokw1
R2ADJ -.3257612 :	remove	liqw1
R2ADJ -.3530708 :	remove	Havmil

```

Stage 1 reg radfmw1 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smok
> w1 liqw1 : R2ADJ -.3530708

```

R2ADJ -.3528814 :	remove	trgovw1
R2ADJ -.3344285 :	remove	ecprw1
R2ADJ -.3415754 :	remove	polprw1
R2ADJ -.3556412 :	remove	airw1
R2ADJ -.3308215 :	remove	radchw1
R2ADJ -.3425442 :	remove	shhousw1
R2ADJ -.3514403 :	remove	trrepw1
R2ADJ -.3548987 :	remove	childw1
R2ADJ -.3341019 :	remove	radtlw1

R2ADJ	-.3544399	:	remove	emplw12
R2ADJ	-.3551739	:	remove	emplw16
R2ADJ	-.3481443	:	remove	emplw24
R2ADJ	-.3538324	:	remove	inc4w1
R2ADJ	-.3532294	:	remove	deaw1
R2ADJ	-.3541066	:	remove	goferw1
R2ADJ	-.3554722	:	remove	fdferw1
R2ADJ	-.3518145	:	remove	pillw1
R2ADJ	-.3546209	:	remove	smokw1
R2ADJ	-.3283962	:	remove	liqw1

```

Stage 2 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 fdferw1 pillw1 smokw1 liq
> w1 : R2ADJ -.3556412

```

R2ADJ	-.3554802	:	remove	trgovw1
R2ADJ	-.3360285	:	remove	ecprw1
R2ADJ	-.3404379	:	remove	polprw1
R2ADJ	-.3335089	:	remove	radchw1
R2ADJ	-.3450956	:	remove	shhousw1
R2ADJ	-.3540224	:	remove	trrepw1
R2ADJ	-.357427	:	remove	childw1
R2ADJ	-.3367749	:	remove	radtlw1
R2ADJ	-.3570012	:	remove	emplw12
R2ADJ	-.357716	:	remove	emplw16
R2ADJ	-.350714	:	remove	emplw24
R2ADJ	-.3563724	:	remove	inc4w1
R2ADJ	-.3558135	:	remove	deaw1
R2ADJ	-.3566875	:	remove	goferw1
R2ADJ	-.3580213	:	remove	fdferw1
R2ADJ	-.35441	:	remove	pillw1
R2ADJ	-.3571838	:	remove	smokw1
R2ADJ	-.3310833	:	remove	liqw1

```

Stage 3 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2
> ADJ -.3580213

```

R2ADJ	-.3577648	:	remove	trgovw1
R2ADJ	-.3382354	:	remove	ecprw1
R2ADJ	-.3420855	:	remove	polprw1
R2ADJ	-.3358482	:	remove	radchw1
R2ADJ	-.3467697	:	remove	shhousw1
R2ADJ	-.3564397	:	remove	trrepw1
R2ADJ	-.3598065	:	remove	childw1
R2ADJ	-.3392337	:	remove	radtlw1
R2ADJ	-.3594068	:	remove	emplw12
R2ADJ	-.3601062	:	remove	emplw16
R2ADJ	-.3531821	:	remove	emplw24

R2ADJ	-.358841	:	remove	inc4w1
R2ADJ	-.3582606	:	remove	deaw1
R2ADJ	-.3590183	:	remove	goferw1
R2ADJ	-.3568607	:	remove	pillw1
R2ADJ	-.3595623	:	remove	smokw1
R2ADJ	-.3336697	:	remove	liqw1

```
Stage 4 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2ADJ -.36
> 01062
```

R2ADJ	-.3599702	:	remove	trgovw1
R2ADJ	-.3402322	:	remove	ecprw1
R2ADJ	-.3439136	:	remove	polprw1
R2ADJ	-.3382457	:	remove	radchw1
R2ADJ	-.3489493	:	remove	shhousw1
R2ADJ	-.3583634	:	remove	trrepw1
R2ADJ	-.3619457	:	remove	childw1
R2ADJ	-.3415055	:	remove	radtlw1
R2ADJ	-.3618866	:	remove	emplw12
R2ADJ	-.3557371	:	remove	emplw24
R2ADJ	-.3609282	:	remove	inc4w1
R2ADJ	-.3604021	:	remove	deaw1
R2ADJ	-.3611615	:	remove	goferw1
R2ADJ	-.3592742	:	remove	pillw1
R2ADJ	-.3616002	:	remove	smokw1
R2ADJ	-.3359429	:	remove	liqw1

```
Stage 5 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 inc4w1 deaw1 goferw1 pillw1 smokw1 liqw1 : R2ADJ -.3619457
```

R2ADJ	-.3617531	:	remove	trgovw1
R2ADJ	-.3398592	:	remove	ecprw1
R2ADJ	-.3454628	:	remove	polprw1
R2ADJ	-.3405426	:	remove	radchw1
R2ADJ	-.3503123	:	remove	shhousw1
R2ADJ	-.3603699	:	remove	trrepw1
R2ADJ	-.343028	:	remove	radtlw1
R2ADJ	-.3625688	:	remove	emplw12
R2ADJ	-.3575269	:	remove	emplw24
R2ADJ	-.3629047	:	remove	inc4w1
R2ADJ	-.3622633	:	remove	deaw1
R2ADJ	-.3632152	:	remove	goferw1
R2ADJ	-.3611401	:	remove	pillw1
R2ADJ	-.3633313	:	remove	smokw1
R2ADJ	-.336442	:	remove	liqw1

```
Stage 6 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 inc4w1 deaw1 goferw1 pillw1 liqw1 : R2ADJ -.3633313
```

R2ADJ	-.3632193	:	remove	trgovw1
R2ADJ	-.3409167	:	remove	ecprw1
R2ADJ	-.3476168	:	remove	polprw1
R2ADJ	-.3409659	:	remove	radchwl
R2ADJ	-.3512561	:	remove	shhousw1
R2ADJ	-.3613124	:	remove	trrepw1
R2ADJ	-.344519	:	remove	radtlw1
R2ADJ	-.3636567	:	remove	emplw12
R2ADJ	-.3590233	:	remove	emplw24
R2ADJ	-.3646562	:	remove	inc4w1
R2ADJ	-.3638031	:	remove	deaw1
R2ADJ	-.3644115	:	remove	goferw1
R2ADJ	-.3625831	:	remove	pillw1
R2ADJ	-.3372389	:	remove	liqw1

Stage 7 reg radfmw1 trgovw1 ecprw1 polprw1 radchwl shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 deaw1 goferw1 pillw1 liqw1 : R2ADJ -.3646562

R2ADJ	-.3647756	:	remove	trgovw1
R2ADJ	-.3421169	:	remove	ecprw1
R2ADJ	-.3486724	:	remove	polprw1
R2ADJ	-.3417318	:	remove	radchwl
R2ADJ	-.3520708	:	remove	shhousw1
R2ADJ	-.3626868	:	remove	trrepw1
R2ADJ	-.345506	:	remove	radtlw1
R2ADJ	-.3653636	:	remove	emplw12
R2ADJ	-.3603663	:	remove	emplw24
R2ADJ	-.365132	:	remove	deaw1
R2ADJ	-.3657706	:	remove	goferw1
R2ADJ	-.3639029	:	remove	pillw1
R2ADJ	-.3391198	:	remove	liqw1

Stage 8 reg radfmw1 trgovw1 ecprw1 polprw1 radchwl shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 deaw1 pillw1 liqw1 : R2ADJ -.3657706

R2ADJ	-.3659198	:	remove	trgovw1
R2ADJ	-.3444775	:	remove	ecprw1
R2ADJ	-.3488333	:	remove	polprw1
R2ADJ	-.3440703	:	remove	radchwl
R2ADJ	-.3533865	:	remove	shhousw1
R2ADJ	-.362908	:	remove	trrepw1
R2ADJ	-.3467962	:	remove	radtlw1
R2ADJ	-.3665705	:	remove	emplw12
R2ADJ	-.3611837	:	remove	emplw24
R2ADJ	-.3667246	:	remove	deaw1
R2ADJ	-.3656428	:	remove	pillw1
R2ADJ	-.3416547	:	remove	liqw1

```
Stage 9 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1 em
> plw12 emplw24 pillw1 liqw1 : R2ADJ -.3667246
```

```
R2ADJ -.3665181 :      remove    trgovw1
R2ADJ -.3423042 :      remove    ecprw1
R2ADJ -.3502967 :      remove    polprw1
R2ADJ -.3438061 :      remove    radchw1
R2ADJ -.3526887 :      remove    shhousw1
R2ADJ -.3644792 :      remove    trrepw1
R2ADJ -.3475442 :      remove    radtlw1
R2ADJ -.3672355 :      remove    emplw12
R2ADJ -.3621985 :      remove    emplw24
R2ADJ -.3663798 :      remove    pillw1
R2ADJ -.3425088 :      remove    liqw1
```

```
Stage 10 reg radfmw1 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 radtlw1
> emplw24 pillw1 liqw1 : R2ADJ -.3672355
```

```
R2ADJ -.3667046 :      remove    trgovw1
R2ADJ -.3435518 :      remove    ecprw1
R2ADJ -.3507542 :      remove    polprw1
R2ADJ -.3408869 :      remove    radchw1
R2ADJ -.3542677 :      remove    shhousw1
R2ADJ -.3655213 :      remove    trrepw1
R2ADJ -.348596  :      remove    radtlw1
R2ADJ -.3634565 :      remove    emplw24
R2ADJ -.3665827 :      remove    pillw1
R2ADJ -.337471  :      remove    liqw1
```

Final Model

Source	SS	df	MS
Model	124094.951	10	12409.4951
Residual	193264.225	256	754.93838
Total	317359.176	266	1193.07961

```
Number of obs =      267
F( 10, 256) =    16.44
Prob > F      =    0.0000
R-squared     =    0.3910
Adj R-squared =    0.3672
Root MSE     =    27.476
```

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	-.0726681	.0659089	-1.10	0.271	-.2024608	.0571246
ecprw1	.1906801	.0585138	3.26	0.001	.0754505	.3059097
polprw1	.1545495	.0557176	2.77	0.006	.0448262	.2642728
radchwl	.226866	.0663203	3.42	0.001	.0962632	.3574689
shhousw1	.1245758	.049763	2.50	0.013	.0265789	.2225727
trrepw1	-.0853926	.0655654	-1.30	0.194	-.2145089	.0437237
radtlw1	.1891057	.0645954	2.93	0.004	.0618998	.3163117
emplw24	44.22522	27.77752	1.59	0.113	-10.47633	98.92677
pillw1	.6992312	.6216591	1.12	0.262	-.5249858	1.923448
liqw1	5.194267	1.435725	3.62	0.000	2.366931	8.021603
_cons	16.1984	4.753878	3.41	0.001	6.83671	25.56008

```

359 .
360 .
361 . sw, pr(.1): regress radfmw1 trgovw1 ecprw1 polprw1 airw1 radchwl  ///
> shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
> emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
> pillw1 smokw1 liqw1 Havmil
                                begin with full model
p = 0.9110 >= 0.1000 removing Havmil
p = 0.9038 >= 0.1000 removing airw1
p = 0.7772 >= 0.1000 removing fdferw1
p = 0.6649 >= 0.1000 removing emplw16
p = 0.5982 >= 0.1000 removing childw1
p = 0.5017 >= 0.1000 removing smokw1
p = 0.4920 >= 0.1000 removing inc4w1
p = 0.4572 >= 0.1000 removing goferw1
p = 0.4331 >= 0.1000 removing deaw1
p = 0.3739 >= 0.1000 removing emplw12
p = 0.2713 >= 0.1000 removing trgovw1
p = 0.2506 >= 0.1000 removing pillw1
p = 0.1249 >= 0.1000 removing emplw24

```

Source	SS	df	MS
Model	120382.353	7	17197.479
Residual	196976.823	259	760.528274
Total	317359.176	266	1193.07961

```

Number of obs =      267
F(   7,   259) =    22.61
Prob > F       =    0.0000
R-squared      =    0.3793
Adj R-squared  =    0.3626
Root MSE      =    27.578

```

radfmw1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
radtlw1	.1893296	.064746	2.92	0.004	.0618341	.3168252
ecprw1	.1734107	.0576291	3.01	0.003	.0599296	.2868919
polprw1	.1536419	.0555784	2.76	0.006	.0441989	.263085
liqw1	4.88335	1.427752	3.42	0.001	2.071869	7.69483
radchw1	.2376176	.0663816	3.58	0.000	.1069012	.3683339
shhousw1	.1333362	.049365	2.70	0.007	.0361284	.230544
trrepw1	-.1322927	.0475503	-2.78	0.006	-.2259272	-.0386583
_cons	16.06781	4.761141	3.37	0.001	6.692339	25.44329

362 .

363 . set more off

364 .

```
365 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1  ///
> shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
> emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
> pillw1 smokw1 liqw1 Havmil if gender==2 , factors(4)
(obs=267)
```

Factor analysis/correlation	Number of obs	=	267
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	74

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.97404	1.10363	0.3990	0.3990
Factor2	1.87041	0.48357	0.2509	0.6500
Factor3	1.38685	0.48892	0.1861	0.8360
Factor4	0.89792	0.07590	0.1205	0.9565
Factor5	0.82202	0.49369	0.1103	1.0668
Factor6	0.32834	0.07359	0.0441	1.1108
Factor7	0.25475	0.10557	0.0342	1.1450
Factor8	0.14918	0.05022	0.0200	1.1650
Factor9	0.09896	0.05778	0.0133	1.1783
Factor10	0.04118	0.02513	0.0055	1.1838
Factor11	0.01605	0.03306	0.0022	1.1860
Factor12	-0.01700	0.02807	-0.0023	1.1837
Factor13	-0.04507	0.03391	-0.0060	1.1777
Factor14	-0.07897	0.06813	-0.0106	1.1671
Factor15	-0.14710	0.01501	-0.0197	1.1473
Factor16	-0.16211	0.02167	-0.0217	1.1256
Factor17	-0.18378	0.03302	-0.0247	1.1009
Factor18	-0.21680	0.03202	-0.0291	1.0718
Factor19	-0.24882	0.03782	-0.0334	1.0385

Factor20	-0.28664	.	-0.0385	1.0000
----------	-----------------	---	----------------	---------------

LR test: independent vs. saturated: $\chi^2(190) = 1523.11$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.3323	0.3536	0.4417	-0.4181	0.3946
ecprw1	0.4998	0.2953	-0.0186	0.0405	0.6610
polprw1	0.5091	0.1517	-0.3465	-0.0518	0.5951
airw1	0.4475	0.0532	-0.4280	0.0246	0.6132
radchw1	0.5590	-0.0208	-0.4272	-0.1571	0.4799
shhousw1	0.3065	0.2131	0.1031	0.1191	0.8359
trrepw1	0.3853	0.3268	0.4650	-0.3968	0.3711
childw1	0.4221	-0.3317	0.1866	0.0259	0.6763
radtlw1	0.4765	0.0606	-0.4450	-0.1873	0.5361
emplw12	0.3971	-0.7743	0.1542	-0.1469	0.1974
emplw16	-0.3987	0.7435	-0.1277	0.1672	0.2440
emplw24	-0.0512	0.0207	-0.0441	-0.1040	0.9842
inc4w1	-0.1024	-0.2650	0.0398	0.1206	0.9032
deaw1	0.3772	0.0734	0.0471	0.0760	0.8444
goferw1	0.5841	0.1099	0.2888	0.4072	0.3975
fdferw1	0.5413	0.1361	0.2058	0.4449	0.4482
pillw1	0.2356	0.0166	-0.0079	0.0866	0.9366
smokw1	-0.0379	-0.2149	-0.0589	0.0410	0.9472
liqw1	0.0894	-0.2286	0.1663	0.1749	0.8815
Havmil	-0.1525	0.0910	0.2078	-0.0442	0.9233

366 . // 6 factors account for 72% of the common variance

367 . // 10 factors have eigenvalues > 1

368 . rotate, blanks(.34)

Factor analysis/correlation	Number of obs	=	267
Method: principal factors	Retained factors	=	4
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	74

Factor	Variance	Difference	Proportion	Cumulative
Factor1	1.99082	0.00756	0.2671	0.2671
Factor2	1.98326	0.30174	0.2661	0.5332
Factor3	1.68152	0.20790	0.2256	0.7588
Factor4	1.47362	.	0.1977	0.9565

LR test: independent vs. saturated: $\chi^2(190) = 1523.11$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1				0.7723	0.3946
ecprw1	0.3619		0.3660		0.6610
polprw1	0.6067				0.5951
airw1	0.5966				0.6132
radchw1	0.6931				0.4799
shhousw1					0.8359
trrepw1				0.7793	0.3711
childw1		0.4884			0.6763
radtlw1	0.6740				0.5361
emplw12		0.8938			0.1974
emplw16		-0.8659			0.2440
emplw24					0.9842
inc4w1					0.9032
deaw1					0.8444
goferw1			0.7474		0.3975
fdferw1			0.7281		0.4482
pillw1					0.9366
smokw1					0.9472
liqw1					0.8815
Havmil					0.9233

(blanks represent $\text{abs}(\text{loading}) < .34$)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.6225	0.3899	0.5830	0.3472
Factor2	0.1551	-0.8783	0.1727	0.4180
Factor3	-0.7362	0.2005	0.3162	0.5638
Factor4	-0.2156	-0.1909	0.7282	-0.6219

```

369 .
370 . // items are deleted if they exhibit missing values
371 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 Havmil

```

Polychoric correlation matrix

```

> w1      trgovw1      ecprw1      polprw1      airw1      radchw1      shhous
trrepw1      childw1      radtlw1
trgovw1      1
ecprw1      .28976765      1
polprw1      .11769542      .39324852      1
airw1      -.03110185      .38964014      .61155191      1
radchw1      .04807104      .13368946      .34546464      .28070703      1
shhousw1      .14579255      .32187862      .12637129      .10505866      .07465651
> 1
trrepw1      .70311111      .21805484      .10864435      -.02106691      .083954      .191510
> 08      1
childw1      .0994249      .24253968      .16967429      .11130865      .13570408      .133510
> 53      .13243894      1
radtlw1      .06199247      .17456414      .26692097      .2433826      .70169075      .045780
> 54      .06696507      .09322908      1
deaw1      .14389733      .3267916      .15510015      .20232222      .32609985      .275751
> 74      .26628379      .2922091      .24517037
goferw1      .1905284      .24525645      .10302541      .05114635      .23267039      .17884
> 07      .25275289      .26198774      .1654837
fdferw1      .11999816      .25220849      .1889936      .11175147      .21091054      .23122
> 54      .18836753      .19876379      .150378
pillw1      .02683362      .05933269      .11837105      .17467144      .09412667      .156538
> 14      .07044596      .05947483      .06115194
smokw1      -.08722501      -.04024545      -.07838914      -.00460031      .0423451      -.002982
> 62      -.13934328      .08369387      .00827047
Havmil      .07285151      -.05357487      -.09400788      -.14751933      -.17916609      -.046827
> 61      .08444149      -.05594593      -.20203361

> il      deaw1      goferw1      fdferw1      pillw1      smokw1      Havm
deaw1      1
goferw1      .42905278      1
fdferw1      .29481839      .70851282      1
pillw1      .14242109      .20430907      .14135815      1
smokw1      -.11304444      -.07571239      -.05920026      -.03800203      1
Havmil      -.07057439      -.081723      -.009787      -.03258487      -.06154458
> 1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	3.539530	0.235969	0.235969
2	1.914730	0.127649	0.363617
3	1.398387	0.093226	0.456843
4	1.263647	0.084243	0.541086
5	1.088045	0.072536	0.613623
6	0.955606	0.063707	0.677330
7	0.901334	0.060089	0.737419
8	0.845899	0.056393	0.793812
9	0.825339	0.055023	0.848834
10	0.609043	0.040603	0.889437
11	0.531527	0.035435	0.924872
12	0.347005	0.023134	0.948006
13	0.274768	0.018318	0.966324
14	0.262212	0.017481	0.983805
15	0.242929	0.016195	1.000000

```
372 . matrix define mypolycor1f = r(R)
```

```
373 . factormat mypolycor1f, n(363) blanks(.36) factors(4)
(obs=363)
```

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	54

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	2.98718	1.58966	0.5430	0.5430
Factor2	1.39752	0.49489	0.2540	0.7970
Factor3	0.90264	0.17192	0.1641	0.9611
Factor4	0.73071	0.44319	0.1328	1.0939
Factor5	0.28752	0.12113	0.0523	1.1462
Factor6	0.16639	0.08104	0.0302	1.1764
Factor7	0.08534	0.02273	0.0155	1.1919
Factor8	0.06261	0.05334	0.0114	1.2033
Factor9	0.00928	0.09936	0.0017	1.2050
Factor10	-0.09008	0.02754	-0.0164	1.1886
Factor11	-0.11762	0.05599	-0.0214	1.1673
Factor12	-0.17361	0.05418	-0.0316	1.1357
Factor13	-0.22779	0.01983	-0.0414	1.0943
Factor14	-0.24762	0.02350	-0.0450	1.0493
Factor15	-0.27112	.	-0.0493	1.0000

LR test: independent vs. saturated: $\chi^2(105) = 1490.47$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.3755	0.5262	0.3896		0.3880
ecprw1	0.5527				0.5777
polprw1	0.5195				0.4798
airw1	0.4474	-0.4250			0.4553
radchw1	0.5514	-0.4204		-0.4138	0.3453
shhousw1					0.8361
trrepw1	0.4301	0.5493			0.3739
childw1					0.8645
radtlw1	0.4841	-0.4064		-0.4342	0.4119
deaw1	0.5714				0.6546
goferw1	0.6123		-0.4785		0.3275
fdferw1	0.5684		-0.4287		0.4408
pillw1					0.9315
smokw1					0.9740
Havmil					0.9212

(blanks represent abs(loading)<.36)

```

374 .
375 .
376 .
377 . use chwide22apr2012males, clear
    (OxMetrics data)

378 .
379 . subtitle "male analysis for waves one and two "
```

```

                                Date and time: 26 Apr 2012   12:45:07
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2179 variables
                                and 340 observations
```

male analysis for waves one and two

```

380 .
381 . di "male sample size = ",_N
    male sample size = 340

382 . di c(filename)
    chwide22apr2012males.dta

383 .
384 .
385 . des  trgow1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
>  shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
>  emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdfew1 fdfew
> 2 ///
>  ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
>  carcin

```

variable name	storage type	display format	value label	variable label
trgow1	double			level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	double			consider hazardous (in percent) - economic problems in 1986
polprw1	double			consider hazardous (in percent) - political problems in 1986
airw1	double			consider hazardous (in percent) - air and water pollution in 1986
radchw1	double			believed % of polution related to chornobyl in 1986
dauthw3	double			level of danger by authorities (in percent) NOW
healthef	double			a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	double		choice1732	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	double			Percentage of strains and hassles related to housing in 1986
trrepw1	double			level of trust in medical/scientific reports about chornobyl in time period 197
childw1	double			number of children in 1986

radtlw1	double		believed % of cumulative radiation exposed to in a lifetime in 1986
illw2	double		Total number of illnesses experienced in time period 1987-1996
emplw12	double		emplw1==1. full time
emplw13	double		emplw1==2. part time
emplw16	double		emplw1==5. unemployed
emplw23	double		emplw2==2. part time
emplw24	double		emplw2==3. voluntary
inc4w1	double	choice117	Income allows to comfortably afford luxury items in 1986
deaw1	double		Total number of death experienced in time period 1986
cataw3	double		Total number of disasters experienced in time period 1996-NOW
movew2	double		Total number of moves experienced in time period 1987-1996
mhlthw2	double		level of general psychological/mental health in 1996
goferw1	double		level of fear in percent from going outdoors in 1976-1986
goferw2	double		level of fear in percent from going outdoors in 1987-1996
fdferw1	double		level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	double		level of fear in percent from consuming foods contaminated with radiation in 198
ncontw3	double	choice311	use of natural contraception in 1997-now
pillw1	double		number of pills for pain per week in 1976-1986
pillw3	double		number of pills for pain per week in 1997-now
smokw1	double		number of cigarettes per week in 1976-1986
liqw1	double		number of spirits per week in 1976-1986
liqw2	double		number of spirits per week in 1987-1996

WHPel	double		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	double		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	double	choice1728	Hlth profile Pt2: Hlth causing probs with social life believed % of polution related to chornobyl NOW
radchw3	double		* Distance from Chornobyl in miles a person exposed to carcinogen is likely to get cancer (% of agreement)
Havmil	double		
carcin	double		

386 .

387 . subtitle " summary statistics of male items"

```

                                Date and time:  26 Apr 2012    12:45:07
                                Stata version:  12.1
                                Operating system: MacOSX    10.6.8  on
>  Macintosh (Intel 64-bit)  with  4  processors
                                using  33554432 bytes of memory
                                Working directory:  /Users/robertyaffee
>  /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide22apr2012males.
>  dta
                                data file has  2179  variables
                                and  340  observations

```

summary statistics of male items

388 .

389 . summ trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///

> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //

> /

> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw

> 2 ///

> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H

> avmil ///

> carcin

Variable	Obs	Mean	Std. Dev.	Min	Max
trgovw1	306	32.92157	36.0737	0	100
ecprw1	340	27.51471	33.22698	0	100
polprw1	340	61.33529	38.49077	0	100
airw1	340	61.39706	36.32179	0	100
radchw1	340	53.09118	35.79325	0	100
dauthw3	339	52.55162	35.45427	0	100
healthef	340	66.52647	30.04553	0	100
HP2vacatn	340	.1205882	.3261281	0	1
shhousw1	340	27.86176	35.13289	0	100
trrepw1	306	37.56536	34.97827	0	100
childw1	339	.7492625	.8998476	0	3
radtlw1	339	53.52507	36.40715	0	100
illw2	340	.2823529	.5922163	0	4
emplw12	340	.6647059	.472789	0	1
emplw13	340	.1382353	.3456555	0	1
emplw16	340	.1852941	.3891086	0	1
emplw23	340	.1294118	.3361498	0	1
emplw24	340	.0029412	.0542326	0	1
inc4w1	340	.0882353	.2840548	0	1
deaw1	340	.1764706	.4960367	0	3
cataw3	340	.0088235	.0936561	0	1
movew2	340	.1558824	.4232834	0	3
mhlthw2	340	89.95	16.68608	0	100
goferw1	340	21.08824	33.32584	0	100
goferw2	340	7.3	16.74777	0	80
fdferw1	340	32.37059	39.08826	0	100
fdferw2	340	16.30882	28.1794	0	100
ncontw3	340	1.617647	.5439236	0	2
pillw1	340	.3088235	1.517424	0	20
pillw3	340	1.888235	3.962119	0	22
smokw1	338	25.61538	49.42302	0	280
liqw1	338	1.650888	2.913595	0	30
liqw2	340	2.144118	2.929827	0	30
WHPel	340	23.19059	29.99217	0	100
WHPpa	340	9.548588	14.55616	0	87.27999
HP2probsoc	340	.1205882	.3261281	0	1
radchw3	340	45.95882	33.63738	0	100
Havmil	340	77.39113	104.9596	.5469414	1181.952
carcin	340	66.19706	30.29393	0	100

```

390 .
391 . vselect radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, backward r2adj
39 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
Information Criteria: R2ADJ

```

Stage 0 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2
> ncontw3 pillw1 pillw3 smo : R2ADJ -.5443263

```

R2ADJ -.5455159 :	remove	trgovw1
R2ADJ -.5418746 :	remove	ecprw1
R2ADJ -.5250536 :	remove	polprw1
R2ADJ -.5428172 :	remove	airw1
R2ADJ -.5375636 :	remove	radchw1
R2ADJ -.5309484 :	remove	dauthw3
R2ADJ -.5407935 :	remove	healthef
R2ADJ -.5459769 :	remove	HP2vacatn
R2ADJ -.5397644 :	remove	shhousw1
R2ADJ -.5460654 :	remove	trrepw1
R2ADJ -.5333981 :	remove	childw1
R2ADJ -.5428075 :	remove	radtlw1
R2ADJ -.5441921 :	remove	illw2
R2ADJ -.5441052 :	remove	emplw12
R2ADJ -.5431625 :	remove	emplw13
R2ADJ -.5449357 :	remove	emplw16
R2ADJ -.5296886 :	remove	emplw23
R2ADJ -.5361416 :	remove	emplw24
R2ADJ -.5450215 :	remove	inc4w1
R2ADJ -.5460036 :	remove	deaw1
R2ADJ -.5367167 :	remove	cataw3
R2ADJ -.5353269 :	remove	movew2
R2ADJ -.54513 :	remove	mhlthw2
R2ADJ -.5450609 :	remove	goferw1
R2ADJ -.5446598 :	remove	goferw2
R2ADJ -.5454173 :	remove	fdferw1
R2ADJ -.5362395 :	remove	fdferw2
R2ADJ -.5458389 :	remove	ncontw3

R2ADJ	-.5451552	:	remove	pillw1
R2ADJ	-.5422938	:	remove	pillw3
R2ADJ	-.5460218	:	remove	smokw1
R2ADJ	-.5460298	:	remove	liqw1
R2ADJ	-.5453977	:	remove	liqw2
R2ADJ	-.5433231	:	remove	WHPel
R2ADJ	-.5368692	:	remove	WHPpa
R2ADJ	-.5460614	:	remove	HP2probsoc
R2ADJ	-.5290754	:	remove	radchw3
R2ADJ	-.5437243	:	remove	Havmil
R2ADJ	-.5434394	:	remove	carcin

```

Stage 1 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3
> pillw1 pillw3 smokw1 liq : R2ADJ -.5460654

```

R2ADJ	-.5467513	:	remove	trgovw1
R2ADJ	-.5434595	:	remove	ecprw1
R2ADJ	-.5268211	:	remove	polprw1
R2ADJ	-.5445487	:	remove	airw1
R2ADJ	-.5392396	:	remove	radchw1
R2ADJ	-.5327058	:	remove	dauthw3
R2ADJ	-.5425387	:	remove	healthef
R2ADJ	-.5477015	:	remove	HP2vacatn
R2ADJ	-.5414927	:	remove	shhousw1
R2ADJ	-.5351633	:	remove	childw1
R2ADJ	-.5445275	:	remove	radtlw1
R2ADJ	-.5459065	:	remove	illw2
R2ADJ	-.5458323	:	remove	emplw12
R2ADJ	-.5448902	:	remove	emplw13
R2ADJ	-.5466616	:	remove	emplw16
R2ADJ	-.5313014	:	remove	emplw23
R2ADJ	-.5379034	:	remove	emplw24
R2ADJ	-.5467358	:	remove	inc4w1
R2ADJ	-.5477298	:	remove	deaw1
R2ADJ	-.5380645	:	remove	cataw3
R2ADJ	-.5370933	:	remove	movew2
R2ADJ	-.5468592	:	remove	mhlthw2
R2ADJ	-.5467873	:	remove	goferw1
R2ADJ	-.5463836	:	remove	goferw2
R2ADJ	-.5471457	:	remove	fdferw1
R2ADJ	-.5376671	:	remove	fdferw2
R2ADJ	-.5475625	:	remove	ncontw3
R2ADJ	-.5468736	:	remove	pillw1
R2ADJ	-.5440019	:	remove	pillw3
R2ADJ	-.5477479	:	remove	smokw1
R2ADJ	-.5477559	:	remove	liqw1
R2ADJ	-.5471258	:	remove	liqw2

```

R2ADJ -.5450582 :      remove      WHPel
R2ADJ -.5386256 :      remove      WHPpa
R2ADJ -.5477873 :      remove      HP2probsoc
R2ADJ -.5308568 :      remove      radchw3
R2ADJ -.5453495 :      remove      Havmil
R2ADJ -.5451739 :      remove      carcin

```

```

Stage 2 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3
> pillw1 pillw3 smokw1 liq : R2ADJ -.5477873

```

```

R2ADJ -.548457  :      remove      trgovw1
R2ADJ -.5451888 :      remove      ecprw1
R2ADJ -.5285631 :      remove      polprw1
R2ADJ -.5462401 :      remove      airw1
R2ADJ -.5408307 :      remove      radchw1
R2ADJ -.534474  :      remove      dauthw3
R2ADJ -.5442404 :      remove      healthef
R2ADJ -.5494081 :      remove      HP2vacatn
R2ADJ -.5430225 :      remove      shhousw1
R2ADJ -.5368297 :      remove      childw1
R2ADJ -.5462211 :      remove      radtlw1
R2ADJ -.5476243 :      remove      illw2
R2ADJ -.5475477 :      remove      emplw12
R2ADJ -.5466132 :      remove      emplw13
R2ADJ -.5483764 :      remove      emplw16
R2ADJ -.5329637 :      remove      emplw23
R2ADJ -.5395311 :      remove      emplw24
R2ADJ -.5484503 :      remove      inc4w1
R2ADJ -.5494405 :      remove      deaw1
R2ADJ -.5398078 :      remove      cataw3
R2ADJ -.5386535 :      remove      movew2
R2ADJ -.5485697 :      remove      mhlthw2
R2ADJ -.5484876 :      remove      goferw1
R2ADJ -.5481003 :      remove      goferw2
R2ADJ -.548861  :      remove      fdferw1
R2ADJ -.5394109 :      remove      fdferw2
R2ADJ -.5492717 :      remove      ncontw3
R2ADJ -.5485794 :      remove      pillw1
R2ADJ -.5457257 :      remove      pillw3
R2ADJ -.5494537 :      remove      smokw1
R2ADJ -.5494641 :      remove      liqw1
R2ADJ -.5488379 :      remove      liqw2
R2ADJ -.5467593 :      remove      WHPel
R2ADJ -.5400583 :      remove      WHPpa
R2ADJ -.5325275 :      remove      radchw3
R2ADJ -.5470685 :      remove      Havmil
R2ADJ -.5468815 :      remove      carcin

```

```

Stage 3 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3
> pillw1 pillw3 smokw1 li : R2ADJ -.5494641

```

```

R2ADJ -.5501522 :      remove      trgovw1
R2ADJ -.5469039 :      remove      ecprw1
R2ADJ -.5296361 :      remove      polprw1
R2ADJ -.5479054 :      remove      airw1
R2ADJ -.5425174 :      remove      radchw1
R2ADJ -.5360223 :      remove      dauthw3
R2ADJ -.5459517 :      remove      healthef
R2ADJ -.5510743 :      remove      HP2vacatn
R2ADJ -.5447032 :      remove      shhousw1
R2ADJ -.5383535 :      remove      childw1
R2ADJ -.5479333 :      remove      radtlw1
R2ADJ -.5491582 :      remove      illw2
R2ADJ -.5491697 :      remove      emplw12
R2ADJ -.5482111 :      remove      emplw13
R2ADJ -.54999   :      remove      emplw16
R2ADJ -.5342017 :      remove      emplw23
R2ADJ -.5411996 :      remove      emplw24
R2ADJ -.5500975 :      remove      inc4w1
R2ADJ -.5511085 :      remove      deaw1
R2ADJ -.5415441 :      remove      cataw3
R2ADJ -.5396486 :      remove      movew2
R2ADJ -.5502551 :      remove      mhlthw2
R2ADJ -.5501423 :      remove      goferw1
R2ADJ -.5497118 :      remove      goferw2
R2ADJ -.5505274 :      remove      fdferw1
R2ADJ -.5411429 :      remove      fdferw2
R2ADJ -.5509548 :      remove      ncontw3
R2ADJ -.5502621 :      remove      pillw1
R2ADJ -.5473766 :      remove      pillw3
R2ADJ -.5511322 :      remove      smokw1
R2ADJ -.549119   :      remove      liqw2
R2ADJ -.5484012 :      remove      WHPel
R2ADJ -.541786   :      remove      WHPpa
R2ADJ -.5339211 :      remove      radchw3
R2ADJ -.5486726 :      remove      Havmil
R2ADJ -.5485913 :      remove      carcin

```

```

Stage 4 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3
> pillw1 pillw3 liqw2 WH : R2ADJ -.5511322

```

```

R2ADJ -.5517868 :      remove      trgovw1

```

R2ADJ	-.5485833	:	remove	ecprw1
R2ADJ	-.5313368	:	remove	polprw1
R2ADJ	-.549604	:	remove	airw1
R2ADJ	-.5442099	:	remove	radchw1
R2ADJ	-.5376881	:	remove	dauthw3
R2ADJ	-.5475988	:	remove	healthef
R2ADJ	-.5527251	:	remove	HP2vacatn
R2ADJ	-.5463552	:	remove	shhousw1
R2ADJ	-.5396459	:	remove	childw1
R2ADJ	-.5496284	:	remove	radtlw1
R2ADJ	-.5508343	:	remove	illw2
R2ADJ	-.5508106	:	remove	emplw12
R2ADJ	-.54986	:	remove	emplw13
R2ADJ	-.5516429	:	remove	emplw16
R2ADJ	-.5359263	:	remove	emplw23
R2ADJ	-.5428942	:	remove	emplw24
R2ADJ	-.5516696	:	remove	inc4w1
R2ADJ	-.5527713	:	remove	deaw1
R2ADJ	-.5430276	:	remove	cataw3
R2ADJ	-.5413153	:	remove	movew2
R2ADJ	-.5519141	:	remove	mhlthw2
R2ADJ	-.5517783	:	remove	goferw1
R2ADJ	-.5513807	:	remove	goferw2
R2ADJ	-.5521809	:	remove	fdferw1
R2ADJ	-.5427845	:	remove	fdferw2
R2ADJ	-.5525985	:	remove	ncontw3
R2ADJ	-.5519388	:	remove	pillw1
R2ADJ	-.5490776	:	remove	pillw3
R2ADJ	-.5507976	:	remove	liqw2
R2ADJ	-.5500843	:	remove	WHPel
R2ADJ	-.5434759	:	remove	WHPpa
R2ADJ	-.5356659	:	remove	radchw3
R2ADJ	-.5503692	:	remove	Havmil
R2ADJ	-.5502398	:	remove	carcin

```

Stage 5 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3 pillw1
> pillw3 liqw2 WHPel W : R2ADJ -.5527713

```

R2ADJ	-.5534313	:	remove	trgovw1
R2ADJ	-.5502615	:	remove	ecprw1
R2ADJ	-.5329101	:	remove	polprw1
R2ADJ	-.5511787	:	remove	airw1
R2ADJ	-.5456239	:	remove	radchw1
R2ADJ	-.5393955	:	remove	dauthw3
R2ADJ	-.5492008	:	remove	healthef
R2ADJ	-.5543325	:	remove	HP2vacatn
R2ADJ	-.5479959	:	remove	shhousw1

R2ADJ	-.5412416	:	remove	childw1
R2ADJ	-.5512632	:	remove	radtlw1
R2ADJ	-.5525153	:	remove	illw2
R2ADJ	-.5524758	:	remove	emplw12
R2ADJ	-.5515379	:	remove	emplw13
R2ADJ	-.5532982	:	remove	emplw16
R2ADJ	-.5376179	:	remove	emplw23
R2ADJ	-.5446029	:	remove	emplw24
R2ADJ	-.5533368	:	remove	inc4w1
R2ADJ	-.5446295	:	remove	cataw3
R2ADJ	-.54301	:	remove	movew2
R2ADJ	-.5534929	:	remove	mhlthw2
R2ADJ	-.5533425	:	remove	goferw1
R2ADJ	-.5529561	:	remove	goferw2
R2ADJ	-.5538072	:	remove	fdferw1
R2ADJ	-.5444778	:	remove	fdferw2
R2ADJ	-.5542171	:	remove	ncontw3
R2ADJ	-.5535633	:	remove	pillw1
R2ADJ	-.5507663	:	remove	pillw3
R2ADJ	-.5524769	:	remove	liqw2
R2ADJ	-.5517189	:	remove	WHPel
R2ADJ	-.5451525	:	remove	WHPpa
R2ADJ	-.5373948	:	remove	radchw3
R2ADJ	-.5519815	:	remove	Havmil
R2ADJ	-.5518553	:	remove	carcin

```

Stage 6 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 ca
> taw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3 pillw1 pillw3 1
> iqw2 WHPel WHPpa rad : R2ADJ -.5543325

```

R2ADJ	-.5550276	:	remove	trgovw1
R2ADJ	-.5519346	:	remove	ecprw1
R2ADJ	-.534294	:	remove	polprw1
R2ADJ	-.5527026	:	remove	airw1
R2ADJ	-.5471362	:	remove	radchw1
R2ADJ	-.5407764	:	remove	dauthw3
R2ADJ	-.5507947	:	remove	healthef
R2ADJ	-.5495763	:	remove	shhousw1
R2ADJ	-.5427877	:	remove	childw1
R2ADJ	-.5526026	:	remove	radtlw1
R2ADJ	-.5540336	:	remove	illw2
R2ADJ	-.5540567	:	remove	emplw12
R2ADJ	-.5531184	:	remove	emplw13
R2ADJ	-.5548659	:	remove	emplw16
R2ADJ	-.5392708	:	remove	emplw23
R2ADJ	-.5463013	:	remove	emplw24
R2ADJ	-.5549006	:	remove	inc4w1
R2ADJ	-.5463154	:	remove	cataw3

R2ADJ	-.5444348	:	remove	movew2
R2ADJ	-.5550531	:	remove	mhlthw2
R2ADJ	-.5548415	:	remove	goferw1
R2ADJ	-.5543325	:	remove	goferw2
R2ADJ	-.5553834	:	remove	fdferw1
R2ADJ	-.5456179	:	remove	fdferw2
R2ADJ	-.5557194	:	remove	ncontw3
R2ADJ	-.5551068	:	remove	pillw1
R2ADJ	-.5522287	:	remove	pillw3
R2ADJ	-.5540319	:	remove	liqw2
R2ADJ	-.553008	:	remove	WHPel
R2ADJ	-.545686	:	remove	WHPpa
R2ADJ	-.5391146	:	remove	radchw3
R2ADJ	-.5535328	:	remove	Havmil
R2ADJ	-.5534213	:	remove	carcin

```

Stage 7 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 ca
> taw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 pillw1 pillw3 liqw2 WHP
> el WHPpa radchw3 Ha : R2ADJ -.5557194

```

R2ADJ	-.5564556	:	remove	trgovw1
R2ADJ	-.5530578	:	remove	ecprw1
R2ADJ	-.5359097	:	remove	polprw1
R2ADJ	-.5537587	:	remove	airw1
R2ADJ	-.5482309	:	remove	radchw1
R2ADJ	-.5423089	:	remove	dauthw3
R2ADJ	-.5522617	:	remove	healthef
R2ADJ	-.5511433	:	remove	shhousw1
R2ADJ	-.5444873	:	remove	childw1
R2ADJ	-.5538915	:	remove	radtlw1
R2ADJ	-.5553685	:	remove	illw2
R2ADJ	-.5552816	:	remove	emplw12
R2ADJ	-.5543293	:	remove	emplw13
R2ADJ	-.5561317	:	remove	emplw16
R2ADJ	-.5407498	:	remove	emplw23
R2ADJ	-.54748	:	remove	emplw24
R2ADJ	-.5561802	:	remove	inc4w1
R2ADJ	-.5476555	:	remove	cataw3
R2ADJ	-.546063	:	remove	movew2
R2ADJ	-.5564653	:	remove	mhlthw2
R2ADJ	-.5563513	:	remove	goferw1
R2ADJ	-.5557706	:	remove	goferw2
R2ADJ	-.5567054	:	remove	fdferw1
R2ADJ	-.5472627	:	remove	fdferw2
R2ADJ	-.5564853	:	remove	pillw1
R2ADJ	-.5537871	:	remove	pillw3
R2ADJ	-.5553894	:	remove	liqw2
R2ADJ	-.5543529	:	remove	WHPel

R2ADJ	-.5473449	:	remove	WHPpa
R2ADJ	-.5401201	:	remove	radchw3
R2ADJ	-.5547607	:	remove	Havmil
R2ADJ	-.5548423	:	remove	carcin

```

Stage 8 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 ca
> taw3 movew2 mhlthw2 goferw1 goferw2 fdferw2 pillw1 pillw3 liqw2 WHPel WHPpa
> radchw3 Havmil ca : R2ADJ -.5567054

```

R2ADJ	-.557519	:	remove	trgovw1
R2ADJ	-.554042	:	remove	ecprw1
R2ADJ	-.5355888	:	remove	polprw1
R2ADJ	-.554488	:	remove	airw1
R2ADJ	-.5491778	:	remove	radchw1
R2ADJ	-.5438509	:	remove	dauthw3
R2ADJ	-.5533706	:	remove	healthef
R2ADJ	-.5521036	:	remove	shhousw1
R2ADJ	-.5448353	:	remove	childw1
R2ADJ	-.5550446	:	remove	radtlw1
R2ADJ	-.5565922	:	remove	illw2
R2ADJ	-.5563614	:	remove	emplw12
R2ADJ	-.5554473	:	remove	emplw13
R2ADJ	-.5571853	:	remove	emplw16
R2ADJ	-.5415757	:	remove	emplw23
R2ADJ	-.5485625	:	remove	emplw24
R2ADJ	-.5571363	:	remove	inc4w1
R2ADJ	-.5488671	:	remove	cataw3
R2ADJ	-.5474402	:	remove	movew2
R2ADJ	-.5575383	:	remove	mhlthw2
R2ADJ	-.5579359	:	remove	goferw1
R2ADJ	-.5570865	:	remove	goferw2
R2ADJ	-.5380741	:	remove	fdferw2
R2ADJ	-.5574897	:	remove	pillw1
R2ADJ	-.5544318	:	remove	pillw3
R2ADJ	-.5564961	:	remove	liqw2
R2ADJ	-.5549704	:	remove	WHPel
R2ADJ	-.5481814	:	remove	WHPpa
R2ADJ	-.5412862	:	remove	radchw3
R2ADJ	-.5559617	:	remove	Havmil
R2ADJ	-.5559085	:	remove	carcin

```

Stage 9 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shho
> usw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 ca
> taw3 movew2 mhlthw2 goferw2 fdferw2 pillw1 pillw3 liqw2 WHPel WHPpa radchw3
> Havmil carcin : R2ADJ -.5579359

```

R2ADJ	-.5587662	:	remove	trgovw1
R2ADJ	-.5550184	:	remove	ecprw1

R2ADJ	-.537256	:	remove	polprw1
R2ADJ	-.5559056	:	remove	airw1
R2ADJ	-.550629	:	remove	radchw1
R2ADJ	-.5453888	:	remove	dauthw3
R2ADJ	-.5546279	:	remove	healthef
R2ADJ	-.5536443	:	remove	shhousw1
R2ADJ	-.5460485	:	remove	childw1
R2ADJ	-.556356	:	remove	radtlw1
R2ADJ	-.5578924	:	remove	illw2
R2ADJ	-.557483	:	remove	emplw12
R2ADJ	-.5565582	:	remove	emplw13
R2ADJ	-.5583411	:	remove	emplw16
R2ADJ	-.5414963	:	remove	emplw23
R2ADJ	-.5498766	:	remove	emplw24
R2ADJ	-.5583407	:	remove	inc4w1
R2ADJ	-.5498772	:	remove	cataw3
R2ADJ	-.5489864	:	remove	movew2
R2ADJ	-.5589216	:	remove	mhlthw2
R2ADJ	-.5586686	:	remove	goferw2
R2ADJ	-.5396423	:	remove	fdferw2
R2ADJ	-.5587352	:	remove	pillw1
R2ADJ	-.5558892	:	remove	pillw3
R2ADJ	-.5577565	:	remove	liqw2
R2ADJ	-.556398	:	remove	WHPel
R2ADJ	-.5495873	:	remove	WHPpa
R2ADJ	-.5428388	:	remove	radchw3
R2ADJ	-.5571664	:	remove	Havmil
R2ADJ	-.5571544	:	remove	carcin

```

Stage 10 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shh
> ousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 c
> ataw3 movew2 goferw2 fdferw2 pillw1 pillw3 liqw2 WHPel WHPpa radchw3 Havmi
> l carcin : R2ADJ -.5589216

```

R2ADJ	-.5597679	:	remove	trgovw1
R2ADJ	-.5560673	:	remove	ecprw1
R2ADJ	-.53868	:	remove	polprw1
R2ADJ	-.5562829	:	remove	airw1
R2ADJ	-.5507856	:	remove	radchw1
R2ADJ	-.5453472	:	remove	dauthw3
R2ADJ	-.5560173	:	remove	healthef
R2ADJ	-.5545597	:	remove	shhousw1
R2ADJ	-.5477152	:	remove	childw1
R2ADJ	-.5571851	:	remove	radtlw1
R2ADJ	-.5588634	:	remove	illw2
R2ADJ	-.5584427	:	remove	emplw12
R2ADJ	-.5575129	:	remove	emplw13
R2ADJ	-.5592937	:	remove	emplw16
R2ADJ	-.5423391	:	remove	emplw23

R2ADJ	-.5510863	:	remove	emplw24
R2ADJ	-.5595548	:	remove	inc4w1
R2ADJ	-.5513622	:	remove	cataw3
R2ADJ	-.549989	:	remove	movew2
R2ADJ	-.559674	:	remove	goferw2
R2ADJ	-.5411479	:	remove	fdferw2
R2ADJ	-.5597567	:	remove	pillw1
R2ADJ	-.5568619	:	remove	pillw3
R2ADJ	-.5590976	:	remove	liqw2
R2ADJ	-.5575241	:	remove	WHPel
R2ADJ	-.5508013	:	remove	WHPpa
R2ADJ	-.541691	:	remove	radchw3
R2ADJ	-.5580605	:	remove	Havmil
R2ADJ	-.5584087	:	remove	carcin

```

Stage 11 reg radfmw2 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shhousw1 ch
> ildw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 cataw3 mo
> vew2 goferw2 fdferw2 pillw1 pillw3 liqw2 WHPel WHPpa radchw3 Havmil carcin
> : R2ADJ -.5597679

```

R2ADJ	-.5575277	:	remove	ecprw1
R2ADJ	-.5403576	:	remove	polprw1
R2ADJ	-.5565903	:	remove	airw1
R2ADJ	-.5511824	:	remove	radchw1
R2ADJ	-.5452788	:	remove	dauthw3
R2ADJ	-.5566451	:	remove	healthef
R2ADJ	-.5559339	:	remove	shhousw1
R2ADJ	-.548743	:	remove	childw1
R2ADJ	-.5575408	:	remove	radtlw1
R2ADJ	-.5594598	:	remove	illw2
R2ADJ	-.5590347	:	remove	emplw12
R2ADJ	-.5580843	:	remove	emplw13
R2ADJ	-.559929	:	remove	emplw16
R2ADJ	-.5428313	:	remove	emplw23
R2ADJ	-.5515041	:	remove	emplw24
R2ADJ	-.5604569	:	remove	inc4w1
R2ADJ	-.5526616	:	remove	cataw3
R2ADJ	-.5501549	:	remove	movew2
R2ADJ	-.56034	:	remove	goferw2
R2ADJ	-.5419326	:	remove	fdferw2
R2ADJ	-.5605913	:	remove	pillw1
R2ADJ	-.5575687	:	remove	pillw3
R2ADJ	-.5601224	:	remove	liqw2
R2ADJ	-.5584257	:	remove	WHPel
R2ADJ	-.5517305	:	remove	WHPpa
R2ADJ	-.5423542	:	remove	radchw3
R2ADJ	-.5591808	:	remove	Havmil
R2ADJ	-.5590733	:	remove	carcin

```

Stage 12 reg radfmw2 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shhousw1 ch
> ildw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 cataw3 mo
> vew2 goferw2 fdferw2 pillw3 liqw2 WHPel WHPpa radchw3 Havmil carcin : R2A
> DJ -.5605913

```

```

R2ADJ -.5583241 :      remove      ecprw1
R2ADJ -.5416172 :      remove      polprw1
R2ADJ -.5574958 :      remove      airw1
R2ADJ -.5520242 :      remove      radchw1
R2ADJ -.5452808 :      remove      dauthw3
R2ADJ -.5574234 :      remove      healthef
R2ADJ -.5571121 :      remove      shhousw1
R2ADJ -.5497136 :      remove      childw1
R2ADJ -.5584457 :      remove      radtlw1
R2ADJ -.5602526 :      remove      illw2
R2ADJ -.5597718 :      remove      emplw12
R2ADJ -.5588042 :      remove      emplw13
R2ADJ -.560708  :      remove      emplw16
R2ADJ -.5437613 :      remove      emplw23
R2ADJ -.5523169 :      remove      emplw24
R2ADJ -.5612202 :      remove      inc4w1
R2ADJ -.5534569 :      remove      cataw3
R2ADJ -.5505131 :      remove      movew2
R2ADJ -.5610882 :      remove      goferw2
R2ADJ -.5432019 :      remove      fdferw2
R2ADJ -.5582804 :      remove      pillw3
R2ADJ -.5608695 :      remove      liqw2
R2ADJ -.5590426 :      remove      WHPel
R2ADJ -.5527344 :      remove      WHPpa
R2ADJ -.5431006 :      remove      radchw3
R2ADJ -.5600899 :      remove      Havmil
R2ADJ -.5598799 :      remove      carcin

```

```

Stage 13 reg radfmw2 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shhousw1 ch
> ildw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 cataw3 movew2
> goferw2 fdferw2 pillw3 liqw2 WHPel WHPpa radchw3 Havmil carcin : R2ADJ -.5
> 612202

```

```

R2ADJ -.5586682 :      remove      ecprw1
R2ADJ -.5419214 :      remove      polprw1
R2ADJ -.5580066 :      remove      airw1
R2ADJ -.5521224 :      remove      radchw1
R2ADJ -.5444885 :      remove      dauthw3
R2ADJ -.5578381 :      remove      healthef
R2ADJ -.5576733 :      remove      shhousw1
R2ADJ -.551157  :      remove      childw1
R2ADJ -.5588435 :      remove      radtlw1
R2ADJ -.5608295 :      remove      illw2
R2ADJ -.560341  :      remove      emplw12

```

R2ADJ	-.559443	:	remove	emplw13
R2ADJ	-.561327	:	remove	emplw16
R2ADJ	-.5443809	:	remove	emplw23
R2ADJ	-.5530718	:	remove	emplw24
R2ADJ	-.5548552	:	remove	cataw3
R2ADJ	-.5514578	:	remove	movew2
R2ADJ	-.5616202	:	remove	goferw2
R2ADJ	-.5447883	:	remove	fdferw2
R2ADJ	-.5578208	:	remove	pillw3
R2ADJ	-.5618554	:	remove	liqw2
R2ADJ	-.5596777	:	remove	WHPel
R2ADJ	-.5530773	:	remove	WHPpa
R2ADJ	-.5438084	:	remove	radchw3
R2ADJ	-.5606399	:	remove	Havmil
R2ADJ	-.5603874	:	remove	carcin

```

Stage 14 reg radfmw2 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shhousw1 ch
> ildw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 cataw3 movew2
> goferw2 fdferw2 pillw3 WHPel WHPpa radchw3 Havmil carcin : R2ADJ -.5618554

```

R2ADJ	-.5592215	:	remove	ecprw1
R2ADJ	-.5430133	:	remove	polprw1
R2ADJ	-.5585644	:	remove	airw1
R2ADJ	-.5523353	:	remove	radchw1
R2ADJ	-.5447687	:	remove	dauthw3
R2ADJ	-.5580926	:	remove	healthef
R2ADJ	-.5587759	:	remove	shhousw1
R2ADJ	-.5513377	:	remove	childw1
R2ADJ	-.5595004	:	remove	radtlw1
R2ADJ	-.5612851	:	remove	illw2
R2ADJ	-.5610936	:	remove	emplw12
R2ADJ	-.5601573	:	remove	emplw13
R2ADJ	-.562035	:	remove	emplw16
R2ADJ	-.5448212	:	remove	emplw23
R2ADJ	-.55414	:	remove	emplw24
R2ADJ	-.5555036	:	remove	cataw3
R2ADJ	-.5526381	:	remove	movew2
R2ADJ	-.5623735	:	remove	goferw2
R2ADJ	-.5454401	:	remove	fdferw2
R2ADJ	-.5577773	:	remove	pillw3
R2ADJ	-.5601864	:	remove	WHPel
R2ADJ	-.5534442	:	remove	WHPpa
R2ADJ	-.5443404	:	remove	radchw3
R2ADJ	-.5612454	:	remove	Havmil
R2ADJ	-.5607613	:	remove	carcin

```

Stage 15 reg radfmw2 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shhousw1 ch
> ildw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 cataw3 movew2
> fdferw2 pillw3 WHPel WHPpa radchw3 Havmil carcin : R2ADJ -.5623735

```

R2ADJ	-.5594563	:	remove	ecprw1
R2ADJ	-.5433079	:	remove	polprw1
R2ADJ	-.5596176	:	remove	airw1
R2ADJ	-.5525681	:	remove	radchw1
R2ADJ	-.5446253	:	remove	dauthw3
R2ADJ	-.558737	:	remove	healthef
R2ADJ	-.5583443	:	remove	shhousw1
R2ADJ	-.5517982	:	remove	childw1
R2ADJ	-.5594709	:	remove	radtlw1
R2ADJ	-.5613724	:	remove	illw2
R2ADJ	-.5616419	:	remove	emplw12
R2ADJ	-.56072	:	remove	emplw13
R2ADJ	-.5625961	:	remove	emplw16
R2ADJ	-.54561	:	remove	emplw23
R2ADJ	-.5544592	:	remove	emplw24
R2ADJ	-.5564982	:	remove	cataw3
R2ADJ	-.5529566	:	remove	movew2
R2ADJ	-.5324907	:	remove	fdferw2
R2ADJ	-.5584395	:	remove	pillw3
R2ADJ	-.5606287	:	remove	WHPel
R2ADJ	-.5542428	:	remove	WHPpa
R2ADJ	-.5448831	:	remove	radchw3
R2ADJ	-.5617426	:	remove	Havmil
R2ADJ	-.5613903	:	remove	carcin

Stage 16 reg radfmw2 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef shhousw1 ch
 > ildw1 radtlw1 illw2 emplw12 emplw13 emplw23 emplw24 cataw3 movew2 fdferw2
 > pillw3 WHPel WHPpa radchw3 Havmil carcin : R2ADJ -.5625961

R2ADJ	-.55915	:	remove	ecprw1
R2ADJ	-.5436446	:	remove	polprw1
R2ADJ	-.5596679	:	remove	airw1
R2ADJ	-.5526268	:	remove	radchw1
R2ADJ	-.5441627	:	remove	dauthw3
R2ADJ	-.5590963	:	remove	healthef
R2ADJ	-.558329	:	remove	shhousw1
R2ADJ	-.550748	:	remove	childw1
R2ADJ	-.5595611	:	remove	radtlw1
R2ADJ	-.5617209	:	remove	illw2
R2ADJ	-.5595237	:	remove	emplw12
R2ADJ	-.5537826	:	remove	emplw13
R2ADJ	-.5463535	:	remove	emplw23
R2ADJ	-.5541992	:	remove	emplw24
R2ADJ	-.5567829	:	remove	cataw3
R2ADJ	-.552891	:	remove	movew2
R2ADJ	-.5325431	:	remove	fdferw2
R2ADJ	-.5585558	:	remove	pillw3
R2ADJ	-.5611697	:	remove	WHPel

```

R2ADJ -.5539074 :      remove      WHPpa
R2ADJ -.544307  :      remove      radchw3
R2ADJ -.5619205 :      remove      Havmil
R2ADJ -.5616046 :      remove      carcin

```

Final Model

Source	SS	df	MS	Number of obs =	301
Model	204772.861	23	8903.16785	F(23, 277) =	17.78
Residual	138730.628	277	500.832591	Prob > F =	0.0000
				R-squared =	0.5961
				Adj R-squared =	0.5626
Total	343503.488	300	1145.01163	Root MSE =	22.379

radfmw2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ecprw1	.0853027	.0477589	1.79	0.075	-.0087138	.1793193
polprw1	.2001186	.0554073	3.61	0.000	.0910458	.3091914
airw1	.0870524	.0514657	1.69	0.092	-.0142612	.1883659
radchw1	-.1628702	.0601321	-2.71	0.007	-.2812442	-.0444962
dauthw3	-.149745	.0419936	-3.57	0.000	-.2324121	-.0670779
healthef	.5911302	.3292031	1.80	0.074	-.0569276	1.239188
shhousw1	.0835648	.0433729	1.93	0.055	-.0018176	.1689472
childw1	5.249768	1.797458	2.92	0.004	1.711355	8.788182
radtlw1	.0822137	.0480386	1.71	0.088	-.0123534	.1767809
illw2	3.282495	2.631291	1.25	0.213	-1.897373	8.462364
emplw12	-6.906311	4.019152	-1.72	0.087	-14.81827	1.005652
emplw13	-12.33588	4.801177	-2.57	0.011	-21.7873	-2.884447
emplw23	13.81929	4.106772	3.37	0.001	5.734846	21.90374
emplw24	-59.32696	23.56775	-2.52	0.012	-105.7216	-12.93231
cataw3	30.47472	14.06491	2.17	0.031	2.787027	58.16241
movew2	-8.730868	3.261	-2.68	0.008	-15.15036	-2.311378
fdferw2	.2486485	.05546	4.48	0.000	.1394718	.3578252
pillw3	-.6521033	.3452335	-1.89	0.060	-1.331718	.0275112
WHPel	.0735439	.0532625	1.38	0.168	-.0313069	.1783946
WHPpa	.2857496	.1118891	2.55	0.011	.0654886	.5060105
radchw3	.2150985	.0605396	3.55	0.000	.0959224	.3342745
Havmil	.01585	.0132573	1.20	0.233	-.0102479	.0419478
carcin	-.4142775	.324476	-1.28	0.203	-1.05303	.2244747
_cons	14.16358	6.014375	2.35	0.019	2.32389	26.00327

```

392 .
393 . sw, pr(.1): regress radhlw2 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 hea
> lthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin

begin with full model
p = 0.9811 >= 0.1000 removing trgovw1
p = 0.9780 >= 0.1000 removing deaw1
p = 0.9590 >= 0.1000 removing mhlthw2
p = 0.9546 >= 0.1000 removing fdferw1
p = 0.8823 >= 0.1000 removing inc4w1
p = 0.8348 >= 0.1000 removing HP2vacatn
p = 0.7661 >= 0.1000 removing liqw2
p = 0.7233 >= 0.1000 removing ncontw3
p = 0.7397 >= 0.1000 removing goferw1
p = 0.6736 >= 0.1000 removing cataw3
p = 0.5729 >= 0.1000 removing emplw16
p = 0.5228 >= 0.1000 removing HP2probsoc
p = 0.4340 >= 0.1000 removing Havmil
p = 0.3103 >= 0.1000 removing illw2
p = 0.3368 >= 0.1000 removing goferw2
p = 0.3010 >= 0.1000 removing pillw1
p = 0.1921 >= 0.1000 removing carcin
p = 0.1637 >= 0.1000 removing pillw3

```

Source	SS	df	MS	Number of obs =	301
Model	215099.651	21	10242.8405	F(21, 279) =	18.88
Residual	151350.017	279	542.473178	Prob > F =	0.0000
				R-squared =	0.5870
				Adj R-squared =	0.5559
Total	366449.668	300	1221.49889	Root MSE =	23.291

radhlw2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
radchw3	.1606248	.0623437	2.58	0.010	.0379011	.2833485
ecprw1	.1214853	.050247	2.42	0.016	.0225739	.2203968
polprw1	.2160977	.0577383	3.74	0.000	.1024397	.3297557
airw1	.0907053	.0532627	1.70	0.090	-.0141424	.1955531
radchw1	-.217329	.0634402	-3.43	0.001	-.3422113	-.0924467
dauthw3	-.0743805	.0431914	-1.72	0.086	-.159403	.0106419
healthef	.1576254	.054401	2.90	0.004	.0505367	.264714
WHPel	.1473275	.053961	2.73	0.007	.0411051	.2535498
shhousw1	.1794247	.0443848	4.04	0.000	.0920531	.2667963

trrepw1	-.1285528	.0446419	-2.88	0.004	-.2164304	-.0406751
childw1	3.412452	1.9275	1.77	0.078	-.3818385	7.206742
radtlw1	.1668549	.0501776	3.33	0.001	.0680802	.2656296
liqw1	1.158243	.544466	2.13	0.034	.0864598	2.230026
emplw12	-11.7274	4.193932	-2.80	0.006	-19.98316	-3.471628
emplw13	-15.47181	4.982834	-3.11	0.002	-25.28053	-5.663085
smokw1	-.0655099	.0307654	-2.13	0.034	-.1260717	-.0049482
emplw23	8.305476	4.207611	1.97	0.049	.0227802	16.58817
emplw24	-68.03858	24.52213	-2.77	0.006	-116.3105	-19.76669
WHPpa	.2487445	.1149374	2.16	0.031	.0224898	.4749992
fdferw2	.1971409	.0561578	3.51	0.001	.0865941	.3076878
movew2	-15.96689	3.227858	-4.95	0.000	-22.32094	-9.612838
_cons	12.15874	6.095463	1.99	0.047	.1597982	24.15767

```

394 .
395 .
396 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1 healthef HP2vacatn  ///
>   shhousw1 trrepw1 childw1 radtlw1 illw2  ///
>   emplw24 inc4w1 deaw1  movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2  ///
>   ncontw3 pillw1 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc  Havmil  ///
>   carcin, mineigen(1) blanks(.36)
(obs=302)

```

Factor analysis/correlation	Number of obs	=	302
Method: principal factors	Retained factors	=	6
Rotation: (unrotated)	Number of params	=	171

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.45973	2.12082	0.3112	0.3112
Factor2	2.33891	0.34439	0.1632	0.4744
Factor3	1.99452	0.31999	0.1392	0.6136
Factor4	1.67453	0.46387	0.1168	0.7304
Factor5	1.21066	0.17784	0.0845	0.8149
Factor6	1.03282	0.21958	0.0721	0.8870
Factor7	0.81324	0.19675	0.0567	0.9437
Factor8	0.61650	0.08773	0.0430	0.9868
Factor9	0.52877	0.10621	0.0369	1.0236
Factor10	0.42256	0.02113	0.0295	1.0531
Factor11	0.40143	0.08235	0.0280	1.0811
Factor12	0.31908	0.10152	0.0223	1.1034
Factor13	0.21756	0.01470	0.0152	1.1186
Factor14	0.20287	0.08429	0.0142	1.1327
Factor15	0.11858	0.07598	0.0083	1.1410
Factor16	0.04259	0.01123	0.0030	1.1440
Factor17	0.03137	0.02177	0.0022	1.1462
Factor18	0.00959	0.01687	0.0007	1.1469

Factor19	-0.00727	0.04157	-0.0005	1.1463
Factor20	-0.04884	0.01380	-0.0034	1.1429
Factor21	-0.06264	0.04726	-0.0044	1.1386
Factor22	-0.10990	0.02222	-0.0077	1.1309
Factor23	-0.13212	0.01792	-0.0092	1.1217
Factor24	-0.15004	0.01181	-0.0105	1.1112
Factor25	-0.16185	0.02249	-0.0113	1.0999
Factor26	-0.18434	0.03344	-0.0129	1.0871
Factor27	-0.21778	0.02013	-0.0152	1.0719
Factor28	-0.23791	0.00524	-0.0166	1.0553
Factor29	-0.24316	0.02539	-0.0170	1.0383
Factor30	-0.26855	0.01156	-0.0187	1.0195
Factor31	-0.28011	.	-0.0195	1.0000

LR test: independent vs. saturated: $\chi^2(465) = 4122.41$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Uniqueness						
trgovw1		0.4689	-0.3842		-0.3725	
0.4245						
ecprw1	0.3685					
0.6423						
polprw1	0.5758			0.3960		
0.4161						
airw1	0.4415					
0.5309						
radchw1				0.5311	0.3721	
0.4882						
healthef	0.6425		-0.3632	-0.4621		
0.0244						
HP2vacatn	0.4234					
0.5508						
shhousw1	0.4575					
0.7154						
trrepw1		0.4659	-0.4340			
0.4635						
childw1						
0.7418						
radtlw1				0.5010	0.4113	
0.5135						
illw2						
0.8438						
emplw24						

>		0.9171			
		inc4w1			
>		0.9016			
		deaw1			
>		0.8921			
		movew2			
>		0.8924			
		mhlthw2			
>		0.9185			
		goferw1		0.5891	
>		0.4560			
		goferw2		0.5796	-0.3730
>		0.4778			
		fdferw1		0.7354	
>		0.2735			
		fdferw2		0.6499	-0.3662
>		0.3752			
		ncontw3			
>		0.9213			
		pillw1			
>		0.9676			
		smokw1			
>		0.7187			
		liqw1		0.6257	0.4364
>		0.2976			
		liqw2		0.5714	0.4170
>		0.4375			
		WHPel		0.4011	
>		0.6267			
		WHPpa		0.3805	
>		0.5400			
		HP2probsoc		0.4842	0.4324
>		0.4454			
		Havmil			
>		0.8470			
		carcin		0.6433	-0.3658 -0.4533
>		0.0276			

(blanks represent abs(loading)<.36)

```
397 . rotate, blanks(.36)
```

```
Factor analysis/correlation
Method: principal factors
Rotation: orthogonal varimax (Kaiser off)
Number of obs = 302
Retained factors = 6
Number of params = 171
```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	3.05319	0.73133	0.2131	0.2131
Factor2	2.32186	0.26617	0.1620	0.3751
Factor3	2.05569	0.01754	0.1434	0.5185
Factor4	2.03815	0.26840	0.1422	0.6607
Factor5	1.76976	0.29724	0.1235	0.7842
Factor6	1.47252	.	0.1028	0.8870

```
LR test: independent vs. saturated: chi2(465) = 4122.41 Prob>chi2 = 0.0000
```

```
Rotated factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Uniqueness						
trgovw1				0.7290		
0.4245						
ecprw1				0.5433		
0.6423						
polprw1	0.4337			0.4668		0.3611
0.4161						
airw1	0.4035			0.4311		
0.5309						
radchw1						0.6767
0.4882						
healthef		0.9714				
0.0244						
HP2vacatn					0.6126	
0.5508						
shhousw1						
0.7154						
trrepw1				0.6799		
0.4635						
childw1			0.4379			
0.7418						
radtlw1						0.6791
0.5135						
illw2						

>	0.8438		
	emplw24		
>	0.9171		
	inc4w1		
>	0.9016		
	deaw1		
>	0.8921		
	movew2		
>	0.8924		
	mhlthw2		
>	0.9185		
	goferw1	0.7185	
>	0.4560		
	goferw2	0.6286	
>	0.4778		
	fdferw1	0.8216	
>	0.2735		
	fdferw2	0.7030	
>	0.3752		
	ncontw3		
>	0.9213		
	pillw1		
>	0.9676		
	smokw1	0.5243	
>	0.7187		
	liqw1	0.8278	
>	0.2976		
	liqw2	0.7333	
>	0.4375		
	WHPel		0.5557
>	0.6267		
	WHPpa		0.5972
>	0.5400		
	HP2probsoc		0.6406
>	0.4454		
	Havmil		
>	0.8470		
	carcin	0.9691	
>	0.0276		

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor1	0.7045	0.5151	0.1527	0.2814	0.3673	0.0304
Factor2	-0.4802	0.1876	0.6942	0.4945	-0.0022	-0.0882
Factor3	0.1283	-0.3800	0.5574	-0.5346	0.4754	-0.1287
Factor4	0.0622	-0.5098	-0.0116	0.3999	0.2344	0.7219
Factor5	-0.0167	0.3982	0.2877	-0.4561	-0.3506	0.6538
Factor6	-0.5025	0.3696	-0.3181	-0.1499	0.6791	0.1617

```

398 . /*pwcorr ecprw1 polprw1 airw1 radchw1 healthef HP2vacatn ///
> shhousw1 illw2 ///
> inc4w1 deaw1 goferw1 goferw2 fdferw1 fdferw2 ///
> WHPel WHPpa HP2probsoc Havmil ///
> carcin, sig obs
> */
399 . polychoricpca ecprw1 polprw1 airw1 radchw1 healthef HP2vacatn ///
> shhousw1 illw2 ///
> inc4w1 deaw1 goferw1 goferw2 fdferw1 fdferw2 ///
> WHPel WHPpa HP2probsoc Havmil ///
> carcin

```

Polychoric correlation matrix

```

> catn      ecprw1      polprw1      airw1      radchw1      healthef      HP2va
> shhousw1      illw2      inc4w1
> ecprw1      1
> polprw1      .41205409      1
> airw1      .40768669      .64370515      1
> radchw1      -.00755992      .08761625      .07669331      1
> healthef      .22019206      .23878621      .20999392      -.13774404      1
> HP2vacatn      -.05357002      .23102716      .1480493      -.07441468      .03941102
> 1
> shhousw1      .32575635      .25962861      .22072794      -.10680923      .2876807      .1550
> 8404      1
> illw2      .17277007      .12081627      .12992584      -.17526813      .30671222      .2916
> 8434      .13794917      1
> inc4w1      -.28611313      -.00002898      -.03421463      .13454985      -.15358523      .0343
> 0877      -.1947415      -.02709814      1
> deaw1      .13005697      -.01909538      -.02474817      .33343751      -.00281909      -.2699
> 7441      -.01885082      .16230107      -.18025397
> goferw1      .10541187      .24865232      .19625751      -.07409928      .25381709      .1936
> 3556      .3118097      .24161782      -.01287939
> goferw2      .11296554      .14270643      .02675582      -.15093447      .28362265      .2945
> 0116      .30289298      .23653953      -.05413935
> fdferw1      .19821831      .3814299      .32514006      -.11084169      .31608869      .2815
> 2104      .36573718      .21127096      .02936194
> fdferw2      .09056377      .23768544      .14872326      -.17734982      .3152948      .3358

```

```

> 4201 .30185063 .2222549 .12277758
      WHPel .08809022 .14639054 .10224559 -.04564881 .12420834 .5562
> 7457 .23383222 .23257982 .12859996
      WHPpa .17609905 .18877379 .13575849 .05708338 .13060773 .4091
> 0931 .16805872 .24316398 -.02493624
HP2probsoc .01377039 .27932957 .0863883 -.3084122 .13055563 .8472
> 9944 .13980724 .40580442 -.05954582
      Havmil .06017021 -.04276014 -.04148526 -.11427687 .10322506 -.1511
> 8129 -.07145703 .11181925 -.03596372
      carcin .22595228 .24411803 .21580121 -.13603184 .99072101 .0456
> 6486 .27401512 .31284571 -.14717892

```

```

      deawl      goferw1      goferw2      fdferw1      fdferw2      W
> HPel      WHPpa      HP2probsoc      Havmil
      deawl      1
      goferw1 .10387526      1
      goferw2 -.09559311 .55525871      1
      fdferw1 .02731975 .71210213 .49873609      1
      fdferw2 -.15981111 .41091073 .63927453 .68084659      1
      WHPel .13189485 .21782831 .18284327 .33223794 .27664283
> 1
      WHPpa .2604375 .11869024 .00615185 .14435367 .02368338 .4983
> 3997      1
HP2probsoc -.07101864 .34356666 .35524193 .41529202 .37814959 .6089
> 9671 .45216528      1
      Havmil -.04180099 -.11062723 -.07280103 -.1323268 -.09717088 -.0194
> 9012 .00916252 -.14587162      1
      carcin -.00345076 .25863703 .28605071 .32128295 .31902129 .1133
> 8016 .1270143 .13662736 .09803324

```

```

      carcin
      carcin      1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	4.929290	0.259436	0.259436
2	2.269972	0.119472	0.378909
3	1.885679	0.099246	0.478155
4	1.614207	0.084958	0.563113
5	1.371314	0.072174	0.635287
6	1.193313	0.062806	0.698093
7	0.964469	0.050762	0.748855
8	0.835827	0.043991	0.792846
9	0.690858	0.036361	0.829207
10	0.669865	0.035256	0.864463
11	0.575494	0.030289	0.894752
12	0.476992	0.025105	0.919857

13	0.414392	0.021810	0.941667
14	0.380211	0.020011	0.961678
15	0.344593	0.018136	0.979815
16	0.186516	0.009817	0.989631
17	0.136424	0.007180	0.996811
18	0.051795	0.002726	0.999537
19	0.008789	0.000463	1.000000

400 . matrix define pchoric12m = r(R)

401 . factormat pchoric12m, n(340) factors(7) blanks(.36)
(obs=340)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	7
Rotation: (unrotated)	Number of params	=	112

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.62408	2.57034	0.4087	0.4087
Factor2	2.05374	0.61325	0.1815	0.5902
Factor3	1.44049	0.17750	0.1273	0.7175
Factor4	1.26299	0.30035	0.1116	0.8292
Factor5	0.96264	0.24548	0.0851	0.9142
Factor6	0.71716	0.33766	0.0634	0.9776
Factor7	0.37950	0.05942	0.0335	1.0112
Factor8	0.32008	0.07463	0.0283	1.0395
Factor9	0.24545	0.10489	0.0217	1.0612
Factor10	0.14056	0.10897	0.0124	1.0736
Factor11	0.03159	0.02058	0.0028	1.0764
Factor12	0.01101	0.01927	0.0010	1.0774
Factor13	-0.00826	0.05346	-0.0007	1.0766
Factor14	-0.06173	0.02242	-0.0055	1.0712
Factor15	-0.08415	0.01448	-0.0074	1.0637
Factor16	-0.09863	0.06349	-0.0087	1.0550
Factor17	-0.16212	0.03349	-0.0143	1.0407
Factor18	-0.19561	0.06906	-0.0173	1.0234
Factor19	-0.26467	.	-0.0234	1.0000

LR test: independent vs. saturated: chi2(171) = 4172.90 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Variable	Uniqueness						
Factor7							
ecprw1				0.3708			
	0.5544						
polprw1	0.4904			0.3902		-0.3630	
	0.3715						
airw1	0.3850			0.4069		-0.3784	
	0.4128						
radchw1				0.4143			0.4367
	0.4262						
healthef	0.5910	0.6429			-0.4046		
	0.0149						
HP2vacatn	0.5868	-0.6391					
	0.0896						
shhousw1	0.4619						
	0.6798						
illw2	0.4422						
	0.6735						
inc4w1							0.4760
	0.6058						
deaw1				0.4746		0.6103	
	0.3807						
goferw1	0.6164						
	0.3979						
goferw2	0.5934			-0.3664			
	0.4183						
fdferw1	0.7510				0.3956		
	0.2334						
fdferw2	0.6617			-0.3657			
	0.3498						
WHPel	0.5188	-0.3923					
	0.4528						
WHPpa	0.3667			0.4370			
	0.5344						
HP2probsoc	0.7041	-0.5770					
	0.0881						
Havmil							
	0.8592						
carcin	0.5941	0.6414			-0.3982		
	0.0162						

(blanks represent abs(loading)<.36)

402 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	7
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	112

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.67459	0.22387	0.2364	0.2364
Factor2	2.45072	0.14265	0.2166	0.4530
Factor3	2.30807	0.73760	0.2040	0.6570
Factor4	1.57047	0.45056	0.1388	0.7958
Factor5	1.11990	0.41737	0.0990	0.8948
Factor6	0.70254	0.08822	0.0621	0.9569
Factor7	0.61432	.	0.0543	1.0112

LR test: independent vs. saturated: chi2(171) = 4172.90 Prob>chi2 = 0.0000

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Uniqueness					
ecprw1	0.5544			0.5161		
polprw1	0.3715			0.7330		
airw1	0.4128			0.7422		
radchw1	0.4262					0.6638
healthef	0.0149		0.9781			
HP2vacatn	0.9211					
shhousw1	0.0896					
illw2	0.6798					
inc4w1	0.6735					
0.5795	0.6058					
deaw1	0.3807				0.7594	
goferw1	0.3979	0.7263				

```

>      goferw2 |      0.6774
>      |      0.4183
>      fdferw1 |      0.7849
>      |      0.2334
>      fdferw2 |      0.7010
>      |      0.3498
>      WHPel |      0.6389
>      |      0.4528
>      WHPpa |      0.5077      0.4082
>      |      0.5344
>      HP2probsoc |      0.9004
>      |      0.0881
>      Havmil |
>      |      0.8592
>      carcin |      0.9766
>      |      0.0162
> _____
> _____

```

(blanks represent abs(loading)<.36)

Factor rotation matrix

```

> _____
> _____
>      | Factor1  Factor2  Factor3  Factor4  Factor5  Factor6  Factor7
> r7    |
> _____
>      |
> 60    | Factor1 |      0.5577      0.5971      0.4706      0.3084      0.0617     -0.0943     -0.05
> 44    | Factor2 |     -0.6983     -0.0049      0.6571      0.2230      0.0594     -0.0156     -0.16
> 69    | Factor3 |      0.1520     -0.3942     -0.1186      0.6103      0.6029      0.2529     -0.08
> 59    | Factor4 |     -0.3764      0.6053     -0.5072      0.3891     -0.1120      0.2655      0.01
> 70    | Factor5 |     -0.1170      0.3419     -0.0003     -0.5474      0.7361      0.1670     -0.00
> 53    | Factor6 |      0.0465     -0.0537      0.2631     -0.0318     -0.1299      0.6406      0.70
> 15    | Factor7 |     -0.1437      0.0426     -0.0784      0.1752      0.2408     -0.6467      0.68
> _____
> _____

```

```

403 .
404 . use chwide22apr2012females, clear

405 .
406 . subtitle "Females waves 1 and 2 radfmw2 with level of measurement assumption
> violation"

```

```

                                Date and time: 26 Apr 2012    12:45:39
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations

```

Females waves 1 and 2 radfmw2 with level of measurement assumption violation

```

407 .
408 . di "female sample size = ",_N
    female sample size = 363

409 . di c(filename)
    chwide22apr2012females.dta

410 .
411 .
412 .
413 . vselect radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16 ///
> illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 ///
> pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 ///
> fdferw2 liqw1 Havmil, backward r2adj
97 Observations Containing Missing Predictor Values

BACKWARD variable selection
Information Criteria: R2ADJ

```

```

Stage 0 reg radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 shhousw1 trrepw1 chil
> dw1 radtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdfer
> w1 pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 liqw1 Havmil
> : R2ADJ -.3401722

```

```

R2ADJ -.3366027 :      remove      trgovw1
R2ADJ -.316783  :      remove      ecprw1
R2ADJ -.3377283 :      remove      polprw1
R2ADJ -.3428894 :      remove      airw1
R2ADJ -.341101  :      remove      radchw1
R2ADJ -.342259  :      remove      shhousw1
R2ADJ -.3408298 :      remove      trrepw1
R2ADJ -.3415657 :      remove      childw1
R2ADJ -.3372763 :      remove      radtlw1
R2ADJ -.3343782 :      remove      emplw12
R2ADJ -.3363168 :      remove      emplw16
R2ADJ -.2958845 :      remove      illw2
R2ADJ -.3343782 :      remove      emplw12
R2ADJ -.3377573 :      remove      emplw24
R2ADJ -.329176  :      remove      inc4w1
R2ADJ -.338668  :      remove      deaw1
R2ADJ -.342387  :      remove      goferw1
R2ADJ -.3403172 :      remove      fdferw1
R2ADJ -.340665  :      remove      pillw1
R2ADJ -.342799  :      remove      smokw1
R2ADJ -.3399913 :      remove      movew2
R2ADJ -.3345125 :      remove      mhlthw2
R2ADJ -.342387  :      remove      goferw1
R2ADJ -.3312842 :      remove      goferw2
R2ADJ -.3403172 :      remove      fdferw1
R2ADJ -.3428234 :      remove      fdferw2
R2ADJ -.3176597 :      remove      liqw1
R2ADJ -.3381592 :      remove      Havmil

```

```

Stage 1 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 pil
> lw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 liqw1 Havmil : R2A
> DJ -.3428894

```

```

R2ADJ -.3393193 :      remove      trgovw1
R2ADJ -.3171145 :      remove      ecprw1
R2ADJ -.3383333 :      remove      polprw1
R2ADJ -.3437877 :      remove      radchw1
R2ADJ -.3449662 :      remove      shhousw1
R2ADJ -.3435327 :      remove      trrepw1
R2ADJ -.3442817 :      remove      childw1
R2ADJ -.3399583 :      remove      radtlw1
R2ADJ -.3370764 :      remove      emplw12

```

R2ADJ	-.3390484	:	remove	emplw16
R2ADJ	-.2986565	:	remove	illw2
R2ADJ	-.3370764	:	remove	emplw12
R2ADJ	-.3404732	:	remove	emplw24
R2ADJ	-.3319473	:	remove	inc4w1
R2ADJ	-.3413253	:	remove	deaw1
R2ADJ	-.3450679	:	remove	goferw1
R2ADJ	-.3430114	:	remove	fdferw1
R2ADJ	-.343269	:	remove	pillw1
R2ADJ	-.3454958	:	remove	smokw1
R2ADJ	-.3427185	:	remove	movew2
R2ADJ	-.3370268	:	remove	mhlthw2
R2ADJ	-.3450679	:	remove	goferw1
R2ADJ	-.3340094	:	remove	goferw2
R2ADJ	-.3430114	:	remove	fdferw1
R2ADJ	-.3455132	:	remove	fdferw2
R2ADJ	-.3202445	:	remove	liqw1
R2ADJ	-.3408935	:	remove	Havmil

```

Stage 2 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 pil
> lw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.345
> 5132

```

R2ADJ	-.3419775	:	remove	trgovw1
R2ADJ	-.3199112	:	remove	ecprw1
R2ADJ	-.3409981	:	remove	polprw1
R2ADJ	-.3463484	:	remove	radchw1
R2ADJ	-.3475765	:	remove	shhousw1
R2ADJ	-.3461464	:	remove	trrepw1
R2ADJ	-.346802	:	remove	childw1
R2ADJ	-.3425607	:	remove	radtlw1
R2ADJ	-.3396145	:	remove	emplw12
R2ADJ	-.341668	:	remove	emplw16
R2ADJ	-.3011423	:	remove	illw2
R2ADJ	-.3396145	:	remove	emplw12
R2ADJ	-.3430978	:	remove	emplw24
R2ADJ	-.3344157	:	remove	inc4w1
R2ADJ	-.3439154	:	remove	deaw1
R2ADJ	-.3477402	:	remove	goferw1
R2ADJ	-.3455064	:	remove	fdferw1
R2ADJ	-.345916	:	remove	pillw1
R2ADJ	-.3481029	:	remove	smokw1
R2ADJ	-.3453367	:	remove	movew2
R2ADJ	-.3397494	:	remove	mhlthw2
R2ADJ	-.3477402	:	remove	goferw1
R2ADJ	-.3338773	:	remove	goferw2
R2ADJ	-.3455064	:	remove	fdferw1
R2ADJ	-.3229568	:	remove	liqw1

R2ADJ -.3435964 : remove Havmil

Stage 3 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1 pil
> lw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.3481029

R2ADJ -.3446277 :	remove	trgovw1
R2ADJ -.3225823 :	remove	ecprw1
R2ADJ -.3433507 :	remove	polprw1
R2ADJ -.3489816 :	remove	radchw1
R2ADJ -.3501554 :	remove	shhousw1
R2ADJ -.3487913 :	remove	trrepw1
R2ADJ -.3494065 :	remove	childw1
R2ADJ -.3451607 :	remove	radtlw1
R2ADJ -.3422889 :	remove	emplw12
R2ADJ -.3443035 :	remove	emplw16
R2ADJ -.3037077 :	remove	illw2
R2ADJ -.3422889 :	remove	emplw12
R2ADJ -.3457066 :	remove	emplw24
R2ADJ -.3361831 :	remove	inc4w1
R2ADJ -.346446 :	remove	deaw1
R2ADJ -.3503349 :	remove	goferw1
R2ADJ -.3480636 :	remove	fdferw1
R2ADJ -.34843 :	remove	pillw1
R2ADJ -.3479638 :	remove	movew2
R2ADJ -.3424541 :	remove	mhlthw2
R2ADJ -.3503349 :	remove	goferw1
R2ADJ -.3365998 :	remove	goferw2
R2ADJ -.3480636 :	remove	fdferw1
R2ADJ -.3257307 :	remove	liqw1
R2ADJ -.3461315 :	remove	Havmil

Stage 4 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 shhousw1 trrepw1 childw1 ra
> dtlw1 emplw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 move
> w2 mhlthw2 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.3503349

R2ADJ -.3469191 :	remove	trgovw1
R2ADJ -.3251008 :	remove	ecprw1
R2ADJ -.3449745 :	remove	polprw1
R2ADJ -.3513513 :	remove	radchw1
R2ADJ -.3522399 :	remove	shhousw1
R2ADJ -.3508517 :	remove	trrepw1
R2ADJ -.3517709 :	remove	childw1
R2ADJ -.3473229 :	remove	radtlw1
R2ADJ -.3447077 :	remove	emplw12
R2ADJ -.3467092 :	remove	emplw16
R2ADJ -.3063658 :	remove	illw2
R2ADJ -.3447077 :	remove	emplw12
R2ADJ -.347967 :	remove	emplw24

R2ADJ	-.3388558	:	remove	inc4w1
R2ADJ	-.3490074	:	remove	deaw1
R2ADJ	-.3505039	:	remove	fdferw1
R2ADJ	-.3509009	:	remove	pillw1
R2ADJ	-.3501987	:	remove	movew2
R2ADJ	-.344117	:	remove	mhlthw2
R2ADJ	-.3393014	:	remove	goferw2
R2ADJ	-.3505039	:	remove	fdferw1
R2ADJ	-.3284827	:	remove	liqw1
R2ADJ	-.347789	:	remove	Havmil

```

Stage 5 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 trrepw1 childw1 radtlw1 emp
> lw12 emplw16 illw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw
> 2 goferw2 fdferw1 liqw1 Havmil : R2ADJ -.3522399

```

R2ADJ	-.3490029	:	remove	trgovw1
R2ADJ	-.3242634	:	remove	ecprw1
R2ADJ	-.3469971	:	remove	polprw1
R2ADJ	-.3531664	:	remove	radchw1
R2ADJ	-.352966	:	remove	trrepw1
R2ADJ	-.3535771	:	remove	childw1
R2ADJ	-.3494079	:	remove	radtlw1
R2ADJ	-.3469006	:	remove	emplw12
R2ADJ	-.348598	:	remove	emplw16
R2ADJ	-.3084314	:	remove	illw2
R2ADJ	-.3469006	:	remove	emplw12
R2ADJ	-.3498042	:	remove	emplw24
R2ADJ	-.3402682	:	remove	inc4w1
R2ADJ	-.3503202	:	remove	deaw1
R2ADJ	-.3522598	:	remove	fdferw1
R2ADJ	-.3525757	:	remove	pillw1
R2ADJ	-.3523211	:	remove	movew2
R2ADJ	-.3452725	:	remove	mhlthw2
R2ADJ	-.3399396	:	remove	goferw2
R2ADJ	-.3522598	:	remove	fdferw1
R2ADJ	-.32946	:	remove	liqw1
R2ADJ	-.3500348	:	remove	Havmil

```

Stage 6 reg radfmw2 trgovw1 ecprw1 polprw1 radchw1 trrepw1 radtlw1 emplw12 emp
> lw16 illw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw2 goferw
> 2 fdferw1 liqw1 Havmil : R2ADJ -.3535771

```

R2ADJ	-.3503854	:	remove	trgovw1
R2ADJ	-.3216101	:	remove	ecprw1
R2ADJ	-.3481251	:	remove	polprw1
R2ADJ	-.3545903	:	remove	radchw1
R2ADJ	-.3544253	:	remove	trrepw1
R2ADJ	-.3504605	:	remove	radtlw1
R2ADJ	-.3463421	:	remove	emplw12

R2ADJ	-.3502153	:	remove	emplw16
R2ADJ	-.3067392	:	remove	illw2
R2ADJ	-.3463421	:	remove	emplw12
R2ADJ	-.3511492	:	remove	emplw24
R2ADJ	-.3421705	:	remove	inc4w1
R2ADJ	-.3515994	:	remove	deaw1
R2ADJ	-.3535363	:	remove	fdferw1
R2ADJ	-.3539729	:	remove	pillw1
R2ADJ	-.3535621	:	remove	movew2
R2ADJ	-.3457054	:	remove	mhlthw2
R2ADJ	-.3406188	:	remove	goferw2
R2ADJ	-.3535363	:	remove	fdferw1
R2ADJ	-.328981	:	remove	liqw1
R2ADJ	-.3512967	:	remove	Havmil

```

Stage 7 reg radfmw2 trgovw1 ecprw1 polprw1 trrepw1 radtlw1 emplw12 emplw16 il
> lw2 emplw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw2 goferw2 fdfer
> w1 liqw1 Havmil : R2ADJ -.3545903

```

R2ADJ	-.3515377	:	remove	trgovw1
R2ADJ	-.3237895	:	remove	ecprw1
R2ADJ	-.3471312	:	remove	polprw1
R2ADJ	-.3555337	:	remove	trrepw1
R2ADJ	-.3397432	:	remove	radtlw1
R2ADJ	-.3467424	:	remove	emplw12
R2ADJ	-.3513943	:	remove	emplw16
R2ADJ	-.3080678	:	remove	illw2
R2ADJ	-.3467424	:	remove	emplw12
R2ADJ	-.3524827	:	remove	emplw24
R2ADJ	-.342575	:	remove	inc4w1
R2ADJ	-.352097	:	remove	deaw1
R2ADJ	-.3539424	:	remove	fdferw1
R2ADJ	-.3548931	:	remove	pillw1
R2ADJ	-.3546966	:	remove	movew2
R2ADJ	-.3468642	:	remove	mhlthw2
R2ADJ	-.3421107	:	remove	goferw2
R2ADJ	-.3539424	:	remove	fdferw1
R2ADJ	-.330218	:	remove	liqw1
R2ADJ	-.3525458	:	remove	Havmil

```

Stage 8 reg radfmw2 trgovw1 ecprw1 polprw1 radtlw1 emplw12 emplw16 illw2 emp
> lw12 emplw24 inc4w1 deaw1 fdferw1 pillw1 movew2 mhlthw2 goferw2 fdferw1 liqw
> 1 Havmil : R2ADJ -.3555337

```

R2ADJ	-.3539189	:	remove	trgovw1
R2ADJ	-.3237718	:	remove	ecprw1
R2ADJ	-.3484645	:	remove	polprw1
R2ADJ	-.340126	:	remove	radtlw1
R2ADJ	-.347565	:	remove	emplw12

```

R2ADJ -.3519164 :      remove      emplw16
R2ADJ -.309858  :      remove      illw2
R2ADJ -.347565  :      remove      emplw12
R2ADJ -.3534603 :      remove      emplw24
R2ADJ -.3438613 :      remove      inc4w1
R2ADJ -.353656  :      remove      deaw1
R2ADJ -.3551989 :      remove      fdferw1
R2ADJ -.3557826 :      remove      pillw1
R2ADJ -.3561902 :      remove      movew2
R2ADJ -.3478776 :      remove      mhlthw2
R2ADJ -.344092  :      remove      goferw2
R2ADJ -.3551989 :      remove      fdferw1
R2ADJ -.3278223 :      remove      liqw1
R2ADJ -.3538079 :      remove      Havmil

```

```

Stage 9 reg radfmw2 trgovw1 ecprw1 polprw1  radtlw1 emplw12 emplw16 illw2 emp
> lw12 emplw24 inc4w1 deaw1 fdferw1 pillw1  mhlthw2 goferw2 fdferw1 liqw1 Havm
> il : R2ADJ -.3561902

```

```

R2ADJ -.3548619 :      remove      trgovw1
R2ADJ -.3219521 :      remove      ecprw1
R2ADJ -.3498597 :      remove      polprw1
R2ADJ -.3397211 :      remove      radtlw1
R2ADJ -.3467761 :      remove      emplw12
R2ADJ -.3522003 :      remove      emplw16
R2ADJ -.3114031 :      remove      illw2
R2ADJ -.3467761 :      remove      emplw12
R2ADJ -.3543535 :      remove      emplw24
R2ADJ -.3443256 :      remove      inc4w1
R2ADJ -.3541814 :      remove      deaw1
R2ADJ -.3556733 :      remove      fdferw1
R2ADJ -.355978  :      remove      pillw1
R2ADJ -.3490099 :      remove      mhlthw2
R2ADJ -.3455189 :      remove      goferw2
R2ADJ -.3556733 :      remove      fdferw1
R2ADJ -.3287798 :      remove      liqw1
R2ADJ -.3555364 :      remove      Havmil

```

Final Model

note: emplw12 omitted because of collinearity
note: fdferw1 omitted because of collinearity

Source	SS	df	MS
Model	103488.791	16	6468.04945
Residual	158467.194	249	636.414433
Total	261955.985	265	988.513151

```

Number of obs =      266
F( 16,  249) =      10.16
Prob > F       =      0.0000
R-squared      =      0.3951
Adj R-squared  =      0.3562
Root MSE      =      25.227

```

radfmw2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
trgovw1	.0554745	.0450581	1.23	0.219	-.033269	.1442181
ecprw1	.2058067	.0544334	3.78	0.000	.0985981	.3130153
polprw1	.0940564	.0505779	1.86	0.064	-.0055588	.1936715
radtlw1	.1262016	.0464077	2.72	0.007	.0347999	.2176033
emplw12	14.10544	6.537287	2.16	0.032	1.23001	26.98086
emplw16	11.33203	7.0973	1.60	0.112	-2.646363	25.31043
illw2	7.696219	1.794608	4.29	0.000	4.161672	11.23077
emplw12	0	(omitted)				
emplw24	-34.33626	26.23295	-1.31	0.192	-86.00301	17.33049
inc4w1	-15.3335	6.475426	-2.37	0.019	-28.08709	-2.579906
deaw1	2.525664	1.893035	1.33	0.183	-1.202738	6.254066
fdferw1	.051033	.0465726	1.10	0.274	-.0406936	.1427595
pillw1	.619223	.5951852	1.04	0.299	-.5530162	1.791462
mhlthw2	-.1677135	.086169	-1.95	0.053	-.3374266	.0019996
goferw2	.2250468	.0992271	2.27	0.024	.0296154	.4204782
fdferw1	0	(omitted)				
liqw1	4.626983	1.35597	3.41	0.001	1.956351	7.297615
Havmil	.0079773	.0071241	1.12	0.264	-.0060539	.0220086
_cons	32.37382	10.25761	3.16	0.002	12.17109	52.57656

```

414 .
415 . // item dropped owing to collinearity in next regression
416 .
417 . sw, pr(.1): regress radfmw2 trgovw1 ecprw1 polprw1 airw1 radchw1 ///
> shhousw1 trrepw1 childw1 radtlw1 emplw16 ///
> illw2 emplw12 emplw24 inc4w1 deaw1 ///
> pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 ///
> fdferw2 liqw1 Havmil

begin with full model
p = 0.9308 >= 0.1000 removing airw1
p = 0.8544 >= 0.1000 removing fdferw2
p = 0.8446 >= 0.1000 removing smokw1
p = 0.6853 >= 0.1000 removing goferw1
p = 0.5962 >= 0.1000 removing shhousw1
p = 0.4836 >= 0.1000 removing childw1
p = 0.4345 >= 0.1000 removing radchw1
p = 0.4254 >= 0.1000 removing trrepw1
p = 0.3885 >= 0.1000 removing movew2
p = 0.2992 >= 0.1000 removing pillw1
p = 0.2835 >= 0.1000 removing Havmil
p = 0.2738 >= 0.1000 removing fdferw1
p = 0.2018 >= 0.1000 removing trgovw1
p = 0.1865 >= 0.1000 removing emplw24
p = 0.1293 >= 0.1000 removing deaw1

```

Source	SS	df	MS	Number of obs =	266
Model	97648.2146	10	9764.82146	F(10, 255) =	15.15
Residual	164307.77	255	644.344198	Prob > F =	0.0000
				R-squared =	0.3728
				Adj R-squared =	0.3482
Total	261955.985	265	988.513151	Root MSE =	25.384

radfmw2	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
emplw12	16.06312	6.376449	2.52	0.012	3.505915	28.62033
ecprw1	.2392438	.0518146	4.62	0.000	.1372048	.3412828
polprw1	.1098124	.0502109	2.19	0.030	.0109315	.2086933
illw2	8.175132	1.775896	4.60	0.000	4.677841	11.67242
mhlthw2	-.1695598	.0846779	-2.00	0.046	-.336317	-.0028026
goferw2	.3345814	.0887522	3.77	0.000	.1598007	.5093621
liqw1	4.532506	1.357167	3.34	0.001	1.859822	7.20519
inc4w1	-17.33006	6.420336	-2.70	0.007	-29.97369	-4.686422
radtlw1	.1213043	.0451903	2.68	0.008	.0323106	.210298
emplw16	11.91767	6.895308	1.73	0.085	-1.661329	25.49668
_cons	34.42969	9.96657	3.45	0.001	14.80242	54.05696

```

418 .
419 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1  ///
>   shhousw1 trrepw1 childw1 radtlw1 emplw12 emplw16  ///
>   illw2 emplw12 emplw24 inc4w1 deaw1 goferw1 fdferw1  ///
>   pillw1 smokw1 movew2 mhlthw2 goferw1 goferw2 fdferw1  ///
>   fdferw2 liqw1 Havmil if gender==2 , factors(4)
(obs=266)
(collinear variables specified)

```

Factor analysis/correlation	Number of obs =	266
Method: principal factors	Retained factors =	4
Rotation: (unrotated)	Number of params =	106

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.87244	1.73921	0.3588	0.3588
Factor2	3.13323	1.23355	0.2307	0.5895
Factor3	1.89968	0.57333	0.1399	0.7294
Factor4	1.32635	0.28550	0.0977	0.8270
Factor5	1.04085	0.31774	0.0766	0.9037
Factor6	0.72311	0.16369	0.0532	0.9569
Factor7	0.55942	0.12395	0.0412	0.9981
Factor8	0.43547	0.06505	0.0321	1.0302
Factor9	0.37042	0.09469	0.0273	1.0575
Factor10	0.27573	0.03563	0.0203	1.0778

Factor11	0.24010	0.09505	0.0177	1.0955
Factor12	0.14505	0.06336	0.0107	1.1061
Factor13	0.08169	0.00700	0.0060	1.1121
Factor14	0.07469	0.03431	0.0055	1.1176
Factor15	0.04038	0.04038	0.0030	1.1206
Factor16	0.00000	0.00000	0.0000	1.1206
Factor17	-0.00000	0.00000	-0.0000	1.1206
Factor18	-0.00000	0.05612	-0.0000	1.1206
Factor19	-0.05612	0.01075	-0.0041	1.1165
Factor20	-0.06687	0.01683	-0.0049	1.1116
Factor21	-0.08370	0.03014	-0.0062	1.1054
Factor22	-0.11384	0.03118	-0.0084	1.0970
Factor23	-0.14502	0.04606	-0.0107	1.0863
Factor24	-0.19108	0.00843	-0.0141	1.0723
Factor25	-0.19951	0.01048	-0.0147	1.0576
Factor26	-0.20999	0.05926	-0.0155	1.0421
Factor27	-0.26925	0.03345	-0.0198	1.0223
Factor28	-0.30270	.	-0.0223	1.0000

LR test: independent vs. saturated: chi2(378) = . Prob>chi2 = .

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1	0.2840	0.1679	0.0811	0.6574	0.4524
ecprw1	0.4098	0.1494	0.3435	0.2206	0.6431
polprw1	0.3131	-0.0294	0.5403	0.0317	0.6082
airw1	0.2426	-0.0964	0.5416	-0.0682	0.6339
radchw1	0.3656	-0.1779	0.5515	-0.1749	0.5000
shhousw1	0.3143	0.1705	0.0888	0.1624	0.8379
trrepw1	0.3583	0.1405	0.0637	0.6360	0.4433
childw1	0.3731	-0.3893	-0.0536	0.1423	0.6861
radtlw1	0.2880	-0.0935	0.5799	-0.1608	0.5462
emplw12	0.3127	-0.9221	-0.1419	0.1084	0.0201
emplw16	-0.2890	0.7789	0.0869	-0.0735	0.2969
illw2	0.1583	-0.0819	-0.2971	0.0421	0.8782
emplw12	0.3127	-0.9221	-0.1419	0.1084	0.0201
emplw24	-0.0700	0.0325	0.0450	-0.0111	0.9919
inc4w1	-0.0504	-0.1627	-0.2199	-0.1073	0.9111
deaw1	0.3356	-0.0106	0.1404	0.0703	0.8626
goferw1	0.8508	0.1384	-0.1676	-0.1586	0.2038
fdferw1	0.8483	0.2209	-0.1830	-0.2642	0.1283
pillw1	0.2470	0.0038	0.0773	0.0002	0.9330
smokw1	-0.0342	-0.1528	-0.0643	-0.0866	0.9638
movew2	-0.1162	0.1877	-0.1358	0.0709	0.9278
mhlthw2	-0.1236	0.0972	-0.0181	0.0325	0.9739
goferw1	0.8508	0.1384	-0.1676	-0.1586	0.2038

goferw2	0.4887	0.3068	-0.1717	0.1781	0.6059
fdferw1	0.8483	0.2209	-0.1830	-0.2642	0.1283
fdferw2	0.4739	0.3596	-0.2283	0.0783	0.5879
liqw1	0.1221	-0.1925	-0.1984	-0.0106	0.9086
Havmil	-0.0631	0.1611	-0.2353	0.2085	0.8712

```

420 . // 6 factors account for 72% of the common variance
421 . // 10 factors have eigenvalues > 1
422 . rotate, blanks(.36)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: orthogonal varimax (Kaiser off)
Number of obs   =   266
Retained factors =    4
Number of params =  106

```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	4.26840	1.06373	0.3143	0.3143
Factor2	3.20467	1.10952	0.2360	0.5503
Factor3	2.09515	0.43166	0.1543	0.7046
Factor4	1.66349	.	0.1225	0.8270

```

LR test: independent vs. saturated: chi2(378) =      . Prob>chi2 =      .

```

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1				0.7341	0.4524
ecprw1			0.3773	0.3862	0.6431
polprw1			0.5892		0.6082
airw1			0.5963		0.6339
radchw1			0.6641		0.5000
shhousw1					0.8379
trrepw1				0.7271	0.4433
childw1		0.4956			0.6861
radtlw1			0.6596		0.5462
emplw12		0.9888			0.0201
emplw16		-0.8345			0.2969
illw2					0.8782
emplw12		0.9888			0.0201
emplw24					0.9919
inc4w1					0.9111
deaw1					0.8626
goferw1	0.8777				0.2038
fdferw1	0.9309				0.1283
pillw1					0.9330

smokw1		0.9638
movew2		0.9278
mhlthw2		0.9739
goferw1	0.8777	0.2038
goferw2	0.5089	0.6059
fdferw1	0.9309	0.1283
fdferw2	0.5526	0.5879
liqw1		0.9086
Havmil		0.8712

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.8847	0.2761	0.2582	0.2728
Factor2	0.2652	-0.9392	-0.1059	0.1907
Factor3	-0.2622	-0.1572	0.9452	0.1148
Factor4	-0.2797	0.1302	-0.1696	0.9360

423 .

424 . subtitle "Females waves 1 and 2 cumulative radfmw2 model"

```

                                Date and time:  26 Apr 2012    12:46:35
                                Stata version:  12.1
                                Operating system:  MacOSX    10.6.8  on
>  Macintosh (Intel 64-bit)  with  4  processors
                                using  33554432 bytes of memory
                                Working directory:  /Users/robertyaffee
>  /Documents/data/research/chwk/phase3/data/ox
                                Stata data file:  chwide22apr2012female
>  s.dta
                                data file has  2196  variables
                                and  363  observations

```

Females waves 1 and 2 cumulative radfmw2 model

```

425 .
426 . polychoricpca trgoww1 ecprw1 polprw1 airw1 radchw1  ///
> shhousw1 radtlw1  ///
> illw2 inc4w1 deaw1 goferw1 goferw2 fdferw1 fdferw2  ///
> Havmil

```

Polychoric correlation matrix

```

> w1      trgoww1      ecprw1      polprw1      airw1      radchw1      shhous
radtlw1      illw2      inc4w1
trgoww1      1
ecprw1      .29362885      1
polprw1      .12117591      .39605893      1
airw1      -.02788902      .39270442      .61242133      1
radchw1      .04548167      .14085646      .3488216      .28435418      1
shhousw1      .14900441      .33074027      .13139677      .110625      .08311181
> 1
radtlw1      .05320092      .18442167      .27581348      .25103653      .70694024      .05748
> 07      1
illw2      .06541433      -.03206604      -.07286019      -.1269093      -.07668277      .083442
> 26      -.19497451      1
inc4w1      -.32466368      -.25715343      -.18433928      -.06887569      -.21759852      -.235193
> 98      -.25067873      .14569537      1
deaw1      .13410331      .32164656      .15686684      .20276531      .32515661      .271636
> 42      .24244973      .0991896      -.10642584
goferw1      .17855498      .24023031      .10439059      .05170707      .23240778      .175480
> 83      .16245176      .22945367      -.13439138
goferw2      .20178524      .23063457      .01598107      .00144956      .0300514      .284284
> 84      .06221927      .10270475      -.00999704
fdferw1      .11314462      .24450253      .18826663      .10992113      .2056313      .223864
> 67      .14030833      .20088275      -.00606248
fdferw2      .1385632      .21915072      .07929555      .01128691      -.02400406      .238248
> 63      -.01296196      .12367734      .05533544
Havmil      .06995724      -.05490047      -.09418125      -.14771624      -.17886767      -.047968
> 07      -.2025807      .06326522      -.41611501

> il      deaw1      goferw1      goferw2      fdferw1      fdferw2      Havm
deaw1      1
goferw1      .42993609      1
goferw2      .17672972      .41533769      1
fdferw1      .29459499      .7067344      .3961652      1
fdferw2      .12479101      .31559874      .62697307      .53754392      1
Havmil      -.0694486      -.08088374      .17262165      -.00939641      .18171766
> 1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	3.592983	0.239532	0.239532
2	2.321746	0.154783	0.394315
3	1.595942	0.106396	0.500711
4	1.280906	0.085394	0.586105
5	1.083481	0.072232	0.658337
6	0.945622	0.063041	0.721379
7	0.848325	0.056555	0.777934
8	0.733689	0.048913	0.826846
9	0.648977	0.043265	0.870111
10	0.492140	0.032809	0.902921
11	0.434553	0.028970	0.931891
12	0.341093	0.022740	0.954630
13	0.277285	0.018486	0.973116
14	0.247412	0.016494	0.989610
15	0.155849	0.010390	1.000000

427 .

428 . matrix define mypchor12f=r(R)

429 . factormat mypchor12f, n(363) blanks(.36) factors(4)
(obs=363)

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	4
Rotation: (unrotated)	Number of params	=	54

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	3.09737	1.26831	0.4520	0.4520
Factor2	1.82906	0.74886	0.2669	0.7190
Factor3	1.08020	0.30187	0.1576	0.8766
Factor4	0.77833	0.27637	0.1136	0.9902
Factor5	0.50197	0.13269	0.0733	1.0634
Factor6	0.36928	0.21443	0.0539	1.1173
Factor7	0.15485	0.07118	0.0226	1.1399
Factor8	0.08367	0.02583	0.0122	1.1521
Factor9	0.05784	0.09744	0.0084	1.1606
Factor10	-0.03960	0.09502	-0.0058	1.1548
Factor11	-0.13462	0.05259	-0.0196	1.1352
Factor12	-0.18720	0.01489	-0.0273	1.1078
Factor13	-0.20209	0.01801	-0.0295	1.0783
Factor14	-0.22010	0.09662	-0.0321	1.0462
Factor15	-0.31672	.	-0.0462	1.0000

LR test: independent vs. saturated: chi2(105) = 1858.06 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1					0.8179
ecprw1	0.5522				0.5570
polprw1	0.4606	-0.4114			0.4928
airw1	0.3859	-0.4417		0.4161	0.4814
radchw1	0.4906	-0.5025			0.3768
shhousw1	0.4067				0.7917
radtlw1	0.4456	-0.5157			0.4182
illw2					0.8758
inc4w1			0.6727		0.3666
deaw1	0.5133				0.7205
goferw1	0.6672				0.3697
goferw2	0.5016	0.4695			0.5244
fdferw1	0.6730				0.3629
fdferw2	0.4787	0.5149			0.4841
Havmil			-0.5721		0.5752

(blanks represent abs(loading)<.36)

430 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	363
Method: principal factors	Retained factors	=	4
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	54

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.51208	0.86843	0.3666	0.3666
Factor2	1.64365	0.16727	0.2399	0.6065
Factor3	1.47639	0.32356	0.2155	0.8219
Factor4	1.15283	.	0.1682	0.9902

LR test: independent vs. saturated: chi2(105) = **1858.06** Prob>chi2 = **0.0000**

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Uniqueness
trgovw1					0.8179
ecprw1			0.5537		0.5570
polprw1			0.6668		0.4928
airw1			0.6865		0.4814
radchw1		0.7608			0.3768
shhousw1					0.7917
radtlw1		0.7364			0.4182
illw2					0.8758
inc4w1				-0.7539	0.3666
deaw1	0.3733				0.7205
goferw1	0.7396				0.3697
goferw2	0.6600				0.5244
fdferw1	0.7753				0.3629
fdferw2	0.6744				0.4841
Havmil				0.5631	0.5752

(blanks represent $\text{abs}(\text{loading}) < .36$)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4
Factor1	0.7510	0.4248	0.4592	0.2115
Factor2	0.6280	-0.6397	-0.4428	0.0161
Factor3	0.1944	0.2368	-0.1009	-0.9466
Factor4	-0.0617	-0.5952	0.7635	-0.2429

```

431 .
432 . use chwide22apr2012males, clear
      (OxMetrics data)

433 .

```

434 . subtitle "Cumulative wave analysis for male waves one two and three"

```

                                Date and time: 26 Apr 2012    12:46:40
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012males.
> dta
                                data file has 2179 variables
                                and 340 observations
```

Cumulative wave analysis for male waves one two and three

```

435 . vselect radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, best
39 Observations Containing Missing Predictor Values
```

Response : radfmw3

Fixed Predictors :

Selected Predictors: radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1
> WHPpa dauthw3 shhousw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 e
> mplw13 carcin mhlthw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12
> goferw1 liqw1 ncontw3 emplw16 trrepw1 radtlw1 liqw2 HP2vacatn goferw2 WHPel
> deaw1 smokw1

Actual Regressions 1155885

Possible Regressions 5.500e+11

Optimal Models Highlighted:

# Preds	R2ADJ	C	AIC	AICC	BIC
1	.2290084	197.9871	2912.877	3767.159	2920.291
2	.332321	132.2253	2870.564	3724.9	2881.685
3	.3795728	102.6583	2849.459	3703.863	2864.287
4	.4189532	78.29706	2830.705	3685.192	2849.24
5	.4509706	58.76882	2814.626	3669.209	2836.868
6	.475537	44.08174	2801.825	3656.519	2827.775
7	.4901386	35.76931	2794.3	3649.12	2823.957
8	.5009504	29.89568	2788.82	3643.779	2822.184
9	.5089702	25.81305	2784.911	3640.025	2821.982
10	.5137496	23.78265	2782.93	3638.215	2823.709
11	.5179204	22.15044	2781.298	3636.767	2825.783
12	.5233449	19.76081	2778.848	3634.518	2827.041
13	.5284747	17.57612	2776.544	3632.43	2828.444
14	.5332445	15.63453	2774.434	3630.55	2830.04
15	.5374818	14.0393	2772.634	3628.998	2831.948
16	.5401918	13.39359	2771.807	3628.434	2834.828
17	.5419678	13.32706	2771.581	3628.486	2838.309
18	.5440152	13.10387	2771.167	3628.368	2841.602
19	.5449122	13.58357	2771.505	3629.018	2845.647
20	.5456255	14.17758	2771.96	3629.801	2849.809
21	.5467924	14.50287	2772.109	3630.295	2853.665
22	.5476673	15.00747	2772.446	3630.995	2857.71
23	.547779	15.96978	2773.287	3632.215	2862.258
24	.5481102	16.8025	2773.978	3633.303	2866.656
25	.5477441	18.04837	2775.129	3634.869	2871.514
26	.5474361	19.25851	2776.238	3636.409	2876.33
27	.5470849	20.49265	2777.371	3637.992	2881.17
28	.5467554	21.71257	2778.485	3639.575	2885.991
29	.545961	23.20161	2779.903	3641.48	2891.117
30	.545484	24.50321	2781.107	3643.188	2896.027
31	.5449715	25.82332	2782.329	3644.934	2900.957
32	.5440102	27.39949	2783.843	3646.992	2906.178
33	.5431188	28.9314	2785.306	3649.016	2911.348
34	.5418596	30.66957	2787.005	3651.297	2916.754
35	.5405757	32.41643	2788.713	3653.606	2922.169
36	.5391281	34.25055	2790.522	3656.036	2927.685
37	.5376619	36.08893	2792.336	3658.491	2933.206
38	.5359958	38.0335	2794.272	3661.089	2938.849
39	.5342778	40	2796.234	3663.732	2944.518

Selected Predictors

```

1 : healthef
2 : polprw1 healthef
3 : polprw1 fdferw2 healthef
4 : polprw1 fdferw2 WHPpa healthef
5 : radchw3 radchw1 polprw1 fdferw2 healthef
6 : radchw3 radchw1 polprw1 fdferw2 WHPpa healthef
7 : radchw3 radchw1 polprw1 fdferw2 emplw23 WHPpa healthef
8 : radchw3 radchw1 polprw1 fdferw2 emplw23 childw1 WHPpa healthef
9 : radchw3 radchw1 polprw1 fdferw2 emplw23 childw1 WHPpa healthef airw1
10 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa healthef a
> irw1
11 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa healthef a
> irw1 emplw16
12 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa healthef a
> irw1 HP2probsoc emplw16
13 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa healthef a
> irw1 HP2probsoc liqw1 emplw16
14 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa shhousw1 h
> ealthef airw1 HP2probsoc liqw1 emplw16
15 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef airw1 HP2probsoc liqw1 emplw16
16 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef ecprw1 airw1 HP2probsoc liqw1 emplw16
17 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil pillw1 airw1 HP2probsoc liqw1 emplw16
18 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil ecprw1 pillw1 airw1 HP2probsoc liqw1 emplw16
19 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil ecprw1 pillw1 airw1 trgovw1 HP2probsoc liqw1 emplw16
20 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef inc4w1 ecprw1 pillw1 airw1 emplw13 HP2probsoc cataw3 emplw12
> liqw1
21 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 HP2probsoc cataw3
> liqw1 emplw16
22 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 HP2probsoc
> cataw3 emplw12 liqw1
23 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin HP2
> probsoc cataw3 emplw12 liqw1
24 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 HP2probsoc cataw3 emplw12 liqw1
25 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 HP2probsoc cataw3 emplw12 liqw1 ncontw3
26 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl

```

```

> thw2 HP2probsoc cataw3 pillw3 emplw12 liqw1 ncontw3
27 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 pillw3 emplw12 liqw1 ncontw3
28 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 illw2 pillw3 emplw12 liqw1 ncontw3
29 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 illw2 pillw3 emplw12 liqw1 ncontw3 radtlw1
30 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3
31 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 radtlw1
32 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 radtlw1
33 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 trrepw1 radtlw1
34 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 trrepw1 radtlw1 HP2vacatn
35 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 trrepw1 radtlw1 liqw2 HP2vacatn
36 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 trrepw1 radtlw1 liqw2 HP2vacatn goferw2
37 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 trrepw1 radtlw1 liqw2 HP2vacatn goferw2 WHPel
38 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco
> ntw3 emplw16 trrepw1 radtlw1 liqw2 HP2vacatn goferw2 WHPel deaw1
39 : radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa dauthw3 sh
> housw1 healthef Havmil inc4w1 ecprw1 pillw1 airw1 trgovw1 emplw13 carcin mhl
> thw2 movew2 HP2probsoc cataw3 fdferw1 illw2 pillw3 emplw12 goferw1 liqw1 nco

```

```

> ntw3 emplw16 trrepw1 radtlw1 liqw2 HP2vacatn goferw2 WHPel deaw1 smokw1

436 . di r(best9)
      radchw3 radchw1 polprw1 fdferw2 emplw23 childw1 WHPpa healthef airw1

437 . di r(best14)
      radchw3 radchw1 emplw24 polprw1 fdferw2 emplw23 childw1 WHPpa shhousw1 health
> ef airw1 HP2probsoc liqw1 emplw16

438 .
439 .
440 .
441 . sw, pr(.1): regress radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 hea
> lthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin

                                begin with full model
p = 0.8549 >= 0.1000 removing smokw1
p = 0.8137 >= 0.1000 removing deaw1
p = 0.6869 >= 0.1000 removing WHPel
p = 0.6826 >= 0.1000 removing goferw2
p = 0.6129 >= 0.1000 removing liqw2
p = 0.6063 >= 0.1000 removing HP2vacatn
p = 0.4903 >= 0.1000 removing trrepw1
p = 0.5111 >= 0.1000 removing emplw16
p = 0.4049 >= 0.1000 removing radtlw1
p = 0.3258 >= 0.1000 removing fdferw1
p = 0.6035 >= 0.1000 removing goferw1
p = 0.3714 >= 0.1000 removing illw2
p = 0.3756 >= 0.1000 removing movew2
p = 0.3681 >= 0.1000 removing pillw3
p = 0.3790 >= 0.1000 removing ncontw3
p = 0.2737 >= 0.1000 removing mhlthw2
p = 0.3021 >= 0.1000 removing carcin
p = 0.1867 >= 0.1000 removing Havmil
p = 0.2206 >= 0.1000 removing trgovw1
p = 0.1707 >= 0.1000 removing pillw1
p = 0.1366 >= 0.1000 removing inc4w1
p = 0.1833 >= 0.1000 removing cataw3

```

Source	SS	df	MS	Number of obs =	301
Model	204684.221	17	12040.2483	F(17, 283) =	21.80
Residual	156337.308	283	552.428649	Prob > F =	0.0000
				R-squared =	0.5670
				Adj R-squared =	0.5409
Total	361021.528	300	1203.40509	Root MSE =	23.504

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
emplw24	-71.4953	25.09152	-2.85	0.005	-120.885	-22.1056
ecprw1	.0823997	.048818	1.69	0.093	-.0136927	.1784922
polprw1	.1454575	.0569945	2.55	0.011	.0332706	.2576444
airw1	.1027875	.0533952	1.93	0.055	-.0023147	.2078897
radchw1	-.2114918	.0580324	-3.64	0.000	-.3257217	-.0972619
dauthw3	-.0958993	.0432527	-2.22	0.027	-.1810371	-.0107614
healthef	.2175487	.0538571	4.04	0.000	.1115373	.3235601
radchw3	.3604067	.0627313	5.75	0.000	.2369275	.483886
shhousw1	.0851107	.0443657	1.92	0.056	-.002218	.1724394
WHPpa	.2516355	.1109598	2.27	0.024	.0332242	.4700468
childw1	4.112474	1.895672	2.17	0.031	.3810668	7.843882
fdferw2	.2493044	.057006	4.37	0.000	.1370948	.3615141
HP2probsoc	11.26916	5.026472	2.24	0.026	1.375146	21.16318
emplw12	-8.640909	4.231207	-2.04	0.042	-16.96954	-.3122771
emplw13	-12.35411	4.981598	-2.48	0.014	-22.15979	-2.548418
liqw1	1.062466	.5142811	2.07	0.040	.0501641	2.074767
emplw23	10.6793	4.196762	2.54	0.011	2.418469	18.94013
_cons	13.65243	5.926351	2.30	0.022	1.987113	25.31776

```

442 .
443 .
444 .
445 . factor  trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
>   shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
>   emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
>   ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
>   carcin, factors(6) blanks(.36)
(obs=301)

```

Factor analysis/correlation	Number of obs =	301
Method: principal factors	Retained factors =	6
Rotation: (unrotated)	Number of params =	219

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.66521	1.78508	0.2283	0.2283
Factor2	2.88012	0.34824	0.1409	0.3692
Factor3	2.53189	0.37329	0.1239	0.4931
Factor4	2.15860	0.71710	0.1056	0.5988
Factor5	1.44149	0.01401	0.0705	0.6693
Factor6	1.42748	0.29981	0.0699	0.7392
Factor7	1.12767	0.03473	0.0552	0.7944
Factor8	1.09295	0.18467	0.0535	0.8479
Factor9	0.90828	0.20691	0.0444	0.8923
Factor10	0.70137	0.02055	0.0343	0.9266
Factor11	0.68082	0.11135	0.0333	0.9599
Factor12	0.56947	0.07370	0.0279	0.9878
Factor13	0.49577	0.09515	0.0243	1.0121
Factor14	0.40063	0.00916	0.0196	1.0317
Factor15	0.39147	0.02280	0.0192	1.0508
Factor16	0.36867	0.08525	0.0180	1.0689
Factor17	0.28342	0.05249	0.0139	1.0827
Factor18	0.23093	0.06071	0.0113	1.0940
Factor19	0.17022	0.05235	0.0083	1.1024
Factor20	0.11786	0.04168	0.0058	1.1081
Factor21	0.07618	0.01962	0.0037	1.1119
Factor22	0.05657	0.05610	0.0028	1.1146
Factor23	0.00047	0.01019	0.0000	1.1147
Factor24	-0.00972	0.00475	-0.0005	1.1142
Factor25	-0.01447	0.02689	-0.0007	1.1135
Factor26	-0.04136	0.01603	-0.0020	1.1115
Factor27	-0.05739	0.02029	-0.0028	1.1086
Factor28	-0.07768	0.02712	-0.0038	1.1048
Factor29	-0.10480	0.02823	-0.0051	1.0997
Factor30	-0.13303	0.01087	-0.0065	1.0932
Factor31	-0.14390	0.01580	-0.0070	1.0862
Factor32	-0.15970	0.00264	-0.0078	1.0783
Factor33	-0.16234	0.02390	-0.0079	1.0704
Factor34	-0.18624	0.02180	-0.0091	1.0613
Factor35	-0.20805	0.02907	-0.0102	1.0511
Factor36	-0.23712	0.00457	-0.0116	1.0395
Factor37	-0.24169	0.01399	-0.0118	1.0277
Factor38	-0.25567	0.05424	-0.0125	1.0152
Factor39	-0.30991	.	-0.0152	1.0000

LR test: independent vs. saturated: $\chi^2(741) = 6129.62$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Variable Uniqueness							
>	trgovw1			0.5398			0.3929
>	0.4554						
>	ecprw1			0.3798			
>	0.6253						
>	polprw1	0.5757					
>	0.4726						
>	airw1	0.4483					
>	0.5823						
>	radchw1			0.3984	0.6481		
>	0.2996						
>	dauthw3			0.4346			
>	0.7658						
>	healthef	0.6168					-0.4961
>	0.1215						
>	HP2vacatn	0.4304					
>	0.6159						
>	shhousw1	0.4210					
>	0.7073						
>	trrepw1			0.6075			
>	0.4943						
>	childw1		0.5344				
>	0.6247						
>	radtlw1				0.6272		
>	0.5387						
>	illw2						
>	0.8388						
>	emplw12	0.3749	0.7382			-0.4418	
>	0.0838						
>	emplw13	-0.3928					
>	0.5962						
>	emplw16		-0.5860				
>	0.4139						
>	emplw23						
>	0.8849						
>	emplw24						
>	0.8882						
>	inc4w1						
>	0.8908						
>	deaw1						
>	0.8781						
>	cataw3						
>	0.9717						
>	movew2						

>	0.9064				
	mhlthw2				
>	0.9141				
	goferw1	0.5678			
>	0.5063				
	goferw2	0.5359			
>	0.4797				
	fdferw1	0.7016			
>	0.3455				
	fdferw2	0.6077	-0.3715		
>	0.3784				
	ncontw3				
>	0.9423				
	pillw1				
>	0.9572				
	pillw3				
>	0.9087				
	smokw1		0.4224		
>	0.7503				
	liqw1		0.5542		
>	0.4216				
	liqw2		0.4418	-0.3656	0.3630
>	0.5069				
	WHPel	0.4043			
>	0.6472				
	WHPpa	0.3987			
>	0.6122				
	HP2probsoc	0.4978	-0.3716		
>	0.5133				
	radchw3		0.4659	0.4593	
>	0.3841				
	Havmil				
>	0.8475				
	carcin	0.6191			-0.4976
>	0.1233				

(blanks represent abs(loading)<.36)

446 . rotate, blanks(.36)

Factor analysis/correlation	Number of obs	=	301
Method: principal factors	Retained factors	=	6
Rotation: orthogonal varimax (Kaiser off)	Number of params	=	219

Factor	Variance	Difference	Proportion	Cumulative
Factor1	3.52612	0.89213	0.1726	0.1726
Factor2	2.63400	0.07607	0.1289	0.3015
Factor3	2.55793	0.31001	0.1252	0.4266
Factor4	2.24792	0.14555	0.1100	0.5366
Factor5	2.10237	0.06591	0.1029	0.6395
Factor6	2.03646	.	0.0997	0.7392

LR test: independent vs. saturated: chi2(741) = 6129.62 Prob>chi2 = 0.0000

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Uniqueness						
trgovw1				0.7064		
0.4554						
ecprw1				0.5712		
0.6253						
polprw1				0.4953		
0.4726						
airw1				0.4650		
0.5823						
radchw1					0.8143	
0.2996						
dauthw3						
0.7658						
healthef			0.9167			
0.1215						
HP2vacatn	0.5620					
0.6159						
shhousw1	0.3665					
0.7073						
trrepw1				0.6586		
0.4943						
childw1		0.5404				
0.6247						
radtlw1					0.6394	

>	0.5387		
	illw2		
>	0.8388		
	emplw12	0.9507	
>	0.0838		
	emplw13	-0.4742	
>	0.5962		
	emplw16	-0.6971	
>	0.4139		
	emplw23		
>	0.8849		
	emplw24		
>	0.8882		
	inc4w1		
>	0.8908		
	deaw1		
>	0.8781		
	cataw3		
>	0.9717		
	movew2		
>	0.9064		
	mhlthw2		
>	0.9141		
	goferw1	0.6215	
>	0.5063		
	goferw2	0.6426	
>	0.4797		
	fdferw1	0.7267	
>	0.3455		
	fdferw2	0.6952	
>	0.3784		
	ncontw3		
>	0.9423		
	pillw1		
>	0.9572		
	pillw3		
>	0.9087		
	smokw1	0.3713	
>	0.7503		
	liqw1		0.6809
>	0.4216		
	liqw2		0.6718
>	0.5069		
	WHPel	0.4731	
>	0.6472		
	WHPpa		0.3633
>	0.6122		
	HP2probsoc	0.6339	
>	0.5133		

```

> |      radchw3 |      0.7587
> |      0.3841 |
> |      Havmil |
> |      0.8475 |
> |      carcin |      0.9167
> |      0.1233 |
> |_____|
> |_____|
      (blanks represent abs(loading)<.36)

```

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor1	0.7177	0.3138	0.5071	0.3138	-0.0722	0.1598
Factor2	-0.2914	0.7569	-0.2228	0.0103	0.0623	0.5372
Factor3	-0.4557	-0.1128	0.3633	0.6712	0.4440	-0.0020
Factor4	0.3249	0.2275	-0.3296	-0.0731	0.7698	-0.3688
Factor5	0.2427	-0.5130	-0.2034	-0.0156	0.3122	0.7341
Factor6	0.1666	-0.0329	-0.6413	0.6673	-0.3219	-0.1047

```

447 . /*
> pworth ecprw1 polprw1 airw1 radchw1 healthf HP2vacatn ///
> shhousw1 radtlw1 illw2 inc4w1 deaw1 ///
> goferw1 goferw2 fdferw1 fdferw2 ///
> WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin, sig obs
> */
448 . polychoricpca ecprw1 polprw1 airw1 radchw1 healthf HP2vacatn ///
> shhousw1 radtlw1 illw2 inc4w1 deaw1 goferw1 ///
> goferw2 fdferw1 fdferw2 ///
> WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin

```

Polychoric correlation matrix

```

          ecprw1      polprw1      airw1      radchw1      healthef      HP2va
> catn      shhousw1      radtlw1      illw2
      ecprw1      1
      polprw1      .41555696      1
      airw1      .40739068      .64569613      1
      radchw1      -.00436468      .08406049      .07812002      1
      healthef      .21791127      .24329432      .20935397      -.13366219      1
      HP2vacatn      -.05511798      .23300863      .14727375      -.07234055      .03734557
>      1
      shhousw1      .32444441      .26262184      .22022876      -.10409581      .28571906      .1539
> 1596      1
      radtlw1      -.01798497      .19926478      .11978422      .60599835      -.06522376      .2571
> 8011      -.00859523      1
      illw2      .17129061      .12305165      .12906859      -.17316519      .30509593      .2906
> 0805      .13647702      -.12645465      1
      inc4w1      -.27454547      -.01784273      -.02947065      .11583564      -.13806446      .0448
> 7737      -.18318548      .0040984      -.0152889
      deaw1      .12876765      -.01733659      -.02526882      .3364089      -.00504203      -.2710
> 0057      -.02039465      .18336624      .16118859
      goferw1      .10472014      .25005557      .19600928      -.07300686      .25321597      .1930
> 1009      .31136981      .09317414      .24094811
      goferw2      .11204284      .14425781      .02636243      -.14966713      .28275307      .2939
> 3682      .30223649      .03065726      .23579971
      fdferw1      .19658828      .38485602      .32474815      -.10801485      .31411573      .2805
> 2244      .36450306      .04078747      .20989247
      fdferw2      .08928069      .23988249      .14828106      -.17563946      .31405586      .335
> 1968      .30092183      -.00387932      .2212902
      WHPel      .0859228      .14934613      .10127216      -.0421364      .12117903      .5553
> 7844      .23213386      .05420767      .23081904
      WHPpa      .1747805      .19113035      .13525534      .05981701      .12861154      .4085
> 0475      .16678095      .08320954      .242107
      HP2probsoc      .01232279      .28134522      .08570896      -.30722654      .12862921      .8470
> 4613      .13860747      .04875153      .40485006
      radchw3      .03937472      -.01525252      -.0628933      .61943852      .1099478      -.1450
> 8422      -.07726701      .37132323      .01028209
      Havmil      .0595193      -.0419561      -.04176906      -.11344215      .10240682      -.1520
> 4691      -.0722219      -.2106939      .11131809
      carcin      .22372453      .2485651      .21517818      -.13201319      .99068161      .0436
> 3619      .27203949      -.05938329      .31125367

```

```

                inc4w1      deaw1      goferw1      goferw2      fdferw1      fdf
> erw2          WHPel      WHPpa      HP2probsoc
    inc4w1      1
    deaw1      -.17153128      1
    goferw1      -.00723993      .10324286      1
    goferw2      -.04655032      -.09643153      .55507655      1
    fdferw1      .04379674      .0258534      .71212627      .49831388      1
    fdferw2      .13263924      -.16092841      .41061174      .63902443      .68045618
> 1
    WHPel      .14634656      .13033502      .21700259      .18181439      .33073072      .2754
> 5058      1
    WHPpa      -.01336741      .25962002      .11813906      .00531078      .14298253      .0225
> 8574      .49756322      1
HP2probsoc      -.04971344      -.07214516      .34300603      .35473939      .41458245      .3775
> 6364      .60819299      .45163462      1
    radchw3      .04098118      .36768269      -.02159511      -.10538895      -.12279519      -.1899
> 0127      .03123349      .18043994      -.18310442
    Havmil      -.03038516      -.04248852      -.11094838      -.07320933      -.13319788      -.0977
> 3419      -.02039484      .00859961      -.14669094
    carcin      -.13172028      -.00563714      .25804858      .28519279      .31935407      .3178
> 0445      .11037149      .12503917      .13473213

                radchw3      Havmil      carcin
    radchw3      1
    Havmil      -.00252475      1
    carcin      .100283      .09721383      1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	4.934025	0.234954	0.234954
2	2.511029	0.119573	0.354526
3	2.304187	0.109723	0.464250
4	1.723496	0.082071	0.546321
5	1.578298	0.075157	0.621478
6	1.249683	0.059509	0.680987
7	1.068297	0.050871	0.731858
8	0.854978	0.040713	0.772571
9	0.837111	0.039862	0.812434
10	0.683302	0.032538	0.844972
11	0.583042	0.027764	0.872736
12	0.510044	0.024288	0.897023
13	0.426747	0.020321	0.917345
14	0.393443	0.018735	0.936080
15	0.373884	0.017804	0.953884
16	0.357326	0.017016	0.970900
17	0.244824	0.011658	0.982558
18	0.177393	0.008447	0.991005

19	0.133924	0.006377	0.997383
20	0.046218	0.002201	0.999583
21	0.008748	0.000417	1.000000

449 . matrix define pchoric123m=r(R)

450 . factormat pchoric123m, factors(5) n(340) blanks(.36)
(obs=340)

Factor analysis/correlation	Number of obs	=	340
Method: principal factors	Retained factors	=	5
Rotation: (unrotated)	Number of params	=	95

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.63529	2.49880	0.3661	0.3661
Factor2	2.13649	0.06234	0.1687	0.5348
Factor3	2.07414	0.74740	0.1638	0.6986
Factor4	1.32675	0.16620	0.1048	0.8034
Factor5	1.16055	0.26173	0.0917	0.8950
Factor6	0.89882	0.36390	0.0710	0.9660
Factor7	0.53493	0.20015	0.0422	1.0082
Factor8	0.33477	0.05566	0.0264	1.0347
Factor9	0.27911	0.11598	0.0220	1.0567
Factor10	0.16313	0.10169	0.0129	1.0696
Factor11	0.06144	0.04064	0.0049	1.0745
Factor12	0.02081	0.02378	0.0016	1.0761
Factor13	-0.00298	0.00508	-0.0002	1.0759
Factor14	-0.00806	0.04715	-0.0006	1.0752
Factor15	-0.05521	0.01565	-0.0044	1.0709
Factor16	-0.07086	0.02874	-0.0056	1.0653
Factor17	-0.09959	0.03404	-0.0079	1.0574
Factor18	-0.13363	0.01298	-0.0106	1.0469
Factor19	-0.14661	0.04961	-0.0116	1.0353
Factor20	-0.19622	0.05434	-0.0155	1.0198
Factor21	-0.25056	.	-0.0198	1.0000

LR test: independent vs. saturated: chi2(210) = 4665.13 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

> -----	Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Unique
> ness							
> -----							
> 131	ecprw1					-0.4187	0.6
> 933	polprw1	0.4967				-0.4904	0.3
> 428	airw1	0.3855				-0.5405	0.4
> 509	radchw1		0.5671	0.5654			0.2
> 830	healthef	0.5784	0.4649	-0.4823			0.0
> 864	HP2vacatn	0.5968	-0.4299	0.4834			0.1
> 402	shhousw1	0.4592					0.7
> 214	radtlw1			0.5630			0.5
> 205	illw2	0.4389					0.7
> 066	inc4w1						0.9
> 707	deaw1		0.4536				0.6
> 634	goferw1	0.6163					0.4
> 547	goferw2	0.5948					0.4
> 767	fdferw1	0.7521			-0.3866		0.2
> 604	fdferw2	0.6658					0.3
> 916	WHPel	0.5162		0.3764			0.4
> 516	WHPpa	0.3604		0.3801	0.3999		0.5
> 998	HP2probsoc	0.7101	-0.4434				0.0
> 516	radchw3		0.5628				0.4
> 994	Havmil						0.8
> 889	carcin	0.5819	0.4625	-0.4807			0.0

```
> _____
      (blanks represent abs(loading)<.36)
```

```
451 . rotate, blanks(.36)
```

```
Factor analysis/correlation
Method: principal factors
Rotation: orthogonal varimax (Kaiser off)
Number of obs = 340
Retained factors = 5
Number of params = 95
```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.78429	0.33478	0.2199	0.2199
Factor2	2.44951	0.03644	0.1934	0.4133
Factor3	2.41307	0.38388	0.1906	0.6039
Factor4	2.02919	0.37203	0.1603	0.7641
Factor5	1.65716	.	0.1309	0.8950

```
LR test: independent vs. saturated: chi2(210) = 4665.13 Prob>chi2 = 0.0000
```

```
Rotated factor loadings (pattern matrix) and unique variances
```

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Unique
ness						
ecprw1					0.5651	0.6
polprw1					0.7194	0.3
airw1					0.7266	0.4
radchw1				0.8378		0.2
healthef		0.9393				0.0
HP2vacatn	0.8693					0.1
shhousw1						0.7
radtlw1				0.6385		0.5
illw2	0.3689	0.3663				0.7
inc4w1						0.9
deaw1				0.5246		0.6

```

> 707      goferw1 |                0.6632                |      0.4
> 634      goferw2 |                0.6735                |      0.4
> 547      fdferw1 |                0.7428                |      0.2
> 767      fdferw2 |                0.7273                |      0.3
> 604      WHPel   |      0.6885                |      0.4
> 916      WHPpa   |      0.5708                |      0.5
> 516      HP2probsoc |      0.9062                |      0.0
> 998      radchw3 |                0.6997                |      0.4
> 516      Havmil  |                |                |      0.8
> 994      carcin  |                0.9345                |      0.0
> 889      _____
> _____
      (blanks represent abs(loading)<.36)

```

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4	Factor5
Factor1	0.5789	0.4702	0.5754	-0.0838	0.3252
Factor2	-0.4029	0.5115	-0.1114	0.6662	0.3462
Factor3	0.5396	-0.5019	-0.0681	0.6700	0.0582
Factor4	0.4588	0.4617	-0.7188	-0.0766	-0.2320
Factor5	-0.0310	0.2288	0.3677	0.3072	-0.8468

```

452 .
453 . use chwide22apr2012females, clear

```

```

454 .
455 . di "Female sample size = ",_N
    Female sample size = 363

```

```

456 .
457 . di c(filename)
    chwide22apr2012females.dta

```

```

458 . tab gender

```

respondent's gender	Freq.	Percent	Cum.
2. female	363	100.00	100.00
Total	363	100.00	

```

459 .
460 .
461 . set more off

```

```

462 . subtitle "cumulative waves for radfmw3 females in waves 1 2 and 3 "

```

```

                                Date and time: 26 Apr 2012   12:54:15
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations

```

```

cumulative waves for radfmw3 females in waves 1 2 and 3

```

```

463 . subtitle "Variable index for cumulative waves for females in waves 1 2 and
> 3 "

```

```

                                Date and time: 26 Apr 2012    12:54:15
                                Stata version: 12.1
                                Operating system: MacOSX    10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyafee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2195 variables
                                and 363 observations

```

Variable index for cumulative waves for females in waves 1 2 and 3

```

464 .
465 .
466 . des trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin

```

variable name	storage type	display format	value label	variable label
trgovw1	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
healthef	byte	%8.0g		* a person exposed to any radiation likely to suffer from (% of agreement)

HP2vacatn	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative radiation exposed to in a lifetime in 1986
illw2	byte	%8.0g		Total number of illnesses experienced in time period 1987-1996
emplw12	byte	%8.0g		emplw1==1. full time
emplw13	byte	%8.0g		emplw1==2. part time
emplw16	byte	%8.0g		emplw1==5. unemployed
emplw23	byte	%8.0g		emplw2==2. part time
emplw24	byte	%8.0g		emplw2==3. voluntary
inc4w1	byte	%15.0g	LABJ	Income allows to comfortably afford luxury items in 1986
deaw1	byte	%8.0g		Total number of death experienced in time period 1986
cataw3	byte	%8.0g		Total number of disasters experienced in time period 1996-NOW
movew2	byte	%8.0g		Total number of moves experienced in time period 1987-1996
mhlthw2	byte	%8.0g		level of general psychological/mental health in 1996
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
goferw2	byte	%8.0g		level of fear in percent from going outdoors in 1987-1996
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 198
ncontw3	byte	%15.0g	LABC	use of natural contraception in 1997-now
pillw1	byte	%8.0g		number of pills for pain per week in 1976-1986

pillw3	byte	%8.0g		number of pills for pain per week in 1997-now
smokw1	int	%8.0g		number of cigarettes per week in 1976-1986
liqw1	byte	%8.0g		number of spirits per week in 1976-1986
liqw2	byte	%8.0g		number of spirits per week in 1987-1996
WHPel	float	%9.0g		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	float	%9.0g		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth causing probs with social life
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
Havmil	float	%9.0g		Distance from Chornobyl in miles
carcin	byte	%8.0g		* a person exposed to carcinogen is likely to get cancer (% of agreement)

467 .

```
468 . sw, pr(.1): regress radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 hea
> lthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 /
> //
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin
```

begin with full model

```
p = 0.9771 >= 0.1000 removing trrepw1
p = 0.9268 >= 0.1000 removing deaw1
p = 0.9143 >= 0.1000 removing fdferw1
p = 0.8934 >= 0.1000 removing goferw1
p = 0.8948 >= 0.1000 removing childw1
p = 0.8799 >= 0.1000 removing healthef
p = 0.8470 >= 0.1000 removing emplw13
p = 0.9217 >= 0.1000 removing emplw16
p = 0.7619 >= 0.1000 removing radtlw1
p = 0.7231 >= 0.1000 removing trgovw1
p = 0.6547 >= 0.1000 removing Havmil
p = 0.6448 >= 0.1000 removing smokw1
p = 0.5480 >= 0.1000 removing HP2probsoc
p = 0.5210 >= 0.1000 removing pillw1
p = 0.5669 >= 0.1000 removing pillw3
p = 0.5350 >= 0.1000 removing emplw23
p = 0.4477 >= 0.1000 removing shhousw1
```

p = **0.4369** >= 0.1000 removing **liqw2**
 p = **0.3671** >= 0.1000 removing **WHPpa**
 p = **0.4120** >= 0.1000 removing **fdferw2**
 p = **0.2764** >= 0.1000 removing **airw1**
 p = **0.2844** >= 0.1000 removing **movew2**
 p = **0.2176** >= 0.1000 removing **HP2vacatn**
 p = **0.2058** >= 0.1000 removing **ncontw3**
 p = **0.1674** >= 0.1000 removing **emplw12**
 p = **0.1130** >= 0.1000 removing **cataw3**
 p = **0.1058** >= 0.1000 removing **inc4w1**

Source	SS	df	MS	Number of obs =	266
Model	157108.128	12	13092.344	F(12, 253) =	24.16
Residual	137112.924	253	541.948317	Prob > F =	0.0000
				R-squared =	0.5340
				Adj R-squared =	0.5119
Total	294221.053	265	1110.26812	Root MSE =	23.28

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
goferw2	.1514637	.0835265	1.81	0.071	-.0130322	.3159596
ecprw1	.1400628	.0484936	2.89	0.004	.0445603	.2355653
polprw1	.1225925	.0477829	2.57	0.011	.0284896	.2166955
illw2	6.493311	1.654975	3.92	0.000	3.234029	9.752594
radchw1	-.1826176	.0539473	-3.39	0.001	-.2888606	-.0763746
dauthw3	.1113616	.043318	2.57	0.011	.0260518	.1966714
WHPel	.0926114	.0463044	2.00	0.047	.0014201	.1838026
radchw3	.4690683	.0564549	8.31	0.000	.3578868	.5802498
mhlthw2	-.2070863	.0816387	-2.54	0.012	-.3678643	-.0463082
carcin	.2207577	.0531304	4.16	0.000	.1161234	.3253919
emplw24	-62.43057	23.65551	-2.64	0.009	-109.0174	-15.84378
liqw1	3.478818	1.227812	2.83	0.005	1.060785	5.896852
_cons	19.83166	9.210499	2.15	0.032	1.692643	37.97068

```

469 . vselect radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 /
> //
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, backward r2adj
97 Observations Containing Missing Predictor Values

```

BACKWARD variable selection
 Information Criteria: R2ADJ

```

Stage 0 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2
> ncontw3 pillw1 pillw3 smo : R2ADJ -.4907787
  
```

R2ADJ -.4929087 :	remove	trgovw1
R2ADJ -.48343 :	remove	ecprw1
R2ADJ -.486784 :	remove	polprw1
R2ADJ -.4912405 :	remove	airw1
R2ADJ -.4740288 :	remove	radchw1
R2ADJ -.4794159 :	remove	dauthw3
R2ADJ -.492978 :	remove	healthef
R2ADJ -.4912037 :	remove	HP2vacatn
R2ADJ -.4917688 :	remove	shhousw1
R2ADJ -.4930201 :	remove	trrepw1
R2ADJ -.4929725 :	remove	childw1
R2ADJ -.4928222 :	remove	radtlw1
R2ADJ -.4638152 :	remove	illw2
R2ADJ -.4925336 :	remove	emplw12
R2ADJ -.4929303 :	remove	emplw13
R2ADJ -.4929005 :	remove	emplw16
R2ADJ -.49203 :	remove	emplw23
R2ADJ -.4866129 :	remove	emplw24
R2ADJ -.4860573 :	remove	inc4w1
R2ADJ -.4930022 :	remove	deaw1
R2ADJ -.485566 :	remove	cataw3
R2ADJ -.4904589 :	remove	movew2
R2ADJ -.4836258 :	remove	mhlthw2
R2ADJ -.4929489 :	remove	goferw1
R2ADJ -.4868119 :	remove	goferw2
R2ADJ -.4929937 :	remove	fdferw1
R2ADJ -.4911344 :	remove	fdferw2
R2ADJ -.4885794 :	remove	ncontw3
R2ADJ -.4918355 :	remove	pillw1
R2ADJ -.4911856 :	remove	pillw3
R2ADJ -.4925692 :	remove	smokw1
R2ADJ -.4801171 :	remove	liqw1
R2ADJ -.491414 :	remove	liqw2
R2ADJ -.4849759 :	remove	WHPel
R2ADJ -.491119 :	remove	WHPpa
R2ADJ -.4921158 :	remove	HP2probsoc
R2ADJ -.3848558 :	remove	radchw3
R2ADJ -.4927233 :	remove	Havmil
R2ADJ -.4919176 :	remove	carcin

```

Stage 1 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3
> pillw1 pillw3 smokw1 liq : R2ADJ -.4930201

```

```

R2ADJ -.4949899 :      remove   trgovw1
R2ADJ -.485642  :      remove   ecprw1
R2ADJ -.4890337 :      remove   polprw1
R2ADJ -.4934708 :      remove   airw1
R2ADJ -.4763293 :      remove   radchw1
R2ADJ -.4816839 :      remove   dauthw3
R2ADJ -.4952007 :      remove   healthef
R2ADJ -.4934338 :      remove   HP2vacatn
R2ADJ -.4939925 :      remove   shhousw1
R2ADJ -.4951948 :      remove   childw1
R2ADJ -.4950461 :      remove   radtlw1
R2ADJ -.4660951 :      remove   illw2
R2ADJ -.4947512 :      remove   emplw12
R2ADJ -.4951505 :      remove   emplw13
R2ADJ -.4951201 :      remove   emplw16
R2ADJ -.4942381 :      remove   emplw23
R2ADJ -.4888635 :      remove   emplw24
R2ADJ -.4883045 :      remove   inc4w1
R2ADJ -.4952249 :      remove   deaw1
R2ADJ -.487816  :      remove   cataw3
R2ADJ -.492633  :      remove   movew2
R2ADJ -.4858906 :      remove   mhlthw2
R2ADJ -.4951685 :      remove   goferw1
R2ADJ -.4890465 :      remove   goferw2
R2ADJ -.4952156 :      remove   fdferw1
R2ADJ -.4933616 :      remove   fdferw2
R2ADJ -.4908153 :      remove   ncontw3
R2ADJ -.4940506 :      remove   pillw1
R2ADJ -.4934019 :      remove   pillw3
R2ADJ -.4947803 :      remove   smokw1
R2ADJ -.4821128 :      remove   liqw1
R2ADJ -.493641  :      remove   liqw2
R2ADJ -.4872344 :      remove   WHPel
R2ADJ -.4933503 :      remove   WHPpa
R2ADJ -.4943419 :      remove   HP2probsoc
R2ADJ -.3873949 :      remove   radchw3
R2ADJ -.4949482 :      remove   Havmil
R2ADJ -.4941456 :      remove   carcin

```

```

Stage 2 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ncontw3 pillw1
> pillw3 smokw1 liqw1 li : R2ADJ -.4952249

```

R2ADJ	-.4971712	:	remove	trgovw1
R2ADJ	-.4876569	:	remove	ecprw1
R2ADJ	-.4912602	:	remove	polprw1
R2ADJ	-.4956338	:	remove	airw1
R2ADJ	-.4786106	:	remove	radchw1
R2ADJ	-.4838687	:	remove	dauthw3
R2ADJ	-.497388	:	remove	healthef
R2ADJ	-.4956273	:	remove	HP2vacatn
R2ADJ	-.4960891	:	remove	shhousw1
R2ADJ	-.4973818	:	remove	childw1
R2ADJ	-.4972333	:	remove	radtlw1
R2ADJ	-.4684097	:	remove	illw2
R2ADJ	-.4969521	:	remove	emplw12
R2ADJ	-.497343	:	remove	emplw13
R2ADJ	-.497315	:	remove	emplw16
R2ADJ	-.4964322	:	remove	emplw23
R2ADJ	-.490985	:	remove	emplw24
R2ADJ	-.4905346	:	remove	inc4w1
R2ADJ	-.4900474	:	remove	cataw3
R2ADJ	-.4948127	:	remove	movew2
R2ADJ	-.4881208	:	remove	mhlthw2
R2ADJ	-.4973641	:	remove	goferw1
R2ADJ	-.4912682	:	remove	goferw2
R2ADJ	-.4974036	:	remove	fdferw1
R2ADJ	-.4955489	:	remove	fdferw2
R2ADJ	-.4930369	:	remove	ncontw3
R2ADJ	-.4962498	:	remove	pillw1
R2ADJ	-.495604	:	remove	pillw3
R2ADJ	-.4969745	:	remove	smokw1
R2ADJ	-.4843722	:	remove	liqw1
R2ADJ	-.4958234	:	remove	liqw2
R2ADJ	-.4893978	:	remove	WHPel
R2ADJ	-.4955349	:	remove	WHPpa
R2ADJ	-.4965258	:	remove	HP2probsoc
R2ADJ	-.3891562	:	remove	radchw3
R2ADJ	-.4971243	:	remove	Havmil
R2ADJ	-.4963414	:	remove	carcin

```

Stage 3 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw2 ncontw3 pillw1 pillw3
> smokw1 liqw1 liqw2 WHP : R2ADJ -.4974036

```

R2ADJ	-.4993146	:	remove	trgovw1
R2ADJ	-.489865	:	remove	ecprw1
R2ADJ	-.4932777	:	remove	polprw1
R2ADJ	-.4977861	:	remove	airw1
R2ADJ	-.4808775	:	remove	radchw1
R2ADJ	-.4858404	:	remove	dauthw3

R2ADJ	-.4995474	:	remove	healthef
R2ADJ	-.4978179	:	remove	HP2vacatn
R2ADJ	-.4982156	:	remove	shhousw1
R2ADJ	-.4995434	:	remove	childw1
R2ADJ	-.499396	:	remove	radtlw1
R2ADJ	-.4706429	:	remove	illw2
R2ADJ	-.4991194	:	remove	emplw12
R2ADJ	-.4995051	:	remove	emplw13
R2ADJ	-.4994789	:	remove	emplw16
R2ADJ	-.4986041	:	remove	emplw23
R2ADJ	-.493137	:	remove	emplw24
R2ADJ	-.4927496	:	remove	inc4w1
R2ADJ	-.4920936	:	remove	cataw3
R2ADJ	-.4969773	:	remove	movew2
R2ADJ	-.4903015	:	remove	mhlthw2
R2ADJ	-.4995494	:	remove	goferw1
R2ADJ	-.4934457	:	remove	goferw2
R2ADJ	-.4975166	:	remove	fdferw2
R2ADJ	-.4952219	:	remove	ncontw3
R2ADJ	-.498432	:	remove	pillw1
R2ADJ	-.4977657	:	remove	pillw3
R2ADJ	-.499138	:	remove	smokw1
R2ADJ	-.4865958	:	remove	liqw1
R2ADJ	-.4979747	:	remove	liqw2
R2ADJ	-.4913943	:	remove	WHPel
R2ADJ	-.4977035	:	remove	WHPpa
R2ADJ	-.4986659	:	remove	HP2probsoc
R2ADJ	-.3918093	:	remove	radchw3
R2ADJ	-.4992713	:	remove	Havmil
R2ADJ	-.4985027	:	remove	carcin

```

Stage 4 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24
> inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 l
> iqw1 liqw2 WHPel WHPp : R2ADJ -.4995494

```

R2ADJ	-.501437	:	remove	trgovw1
R2ADJ	-.492073	:	remove	ecprw1
R2ADJ	-.4954315	:	remove	polprw1
R2ADJ	-.4998882	:	remove	airw1
R2ADJ	-.4826511	:	remove	radchw1
R2ADJ	-.488055	:	remove	dauthw3
R2ADJ	-.5016729	:	remove	healthef
R2ADJ	-.4999629	:	remove	HP2vacatn
R2ADJ	-.5003411	:	remove	shhousw1
R2ADJ	-.5016779	:	remove	childw1
R2ADJ	-.5015315	:	remove	radtlw1
R2ADJ	-.4729191	:	remove	illw2
R2ADJ	-.5012615	:	remove	emplw12

R2ADJ	-.5016374	:	remove	emplw13
R2ADJ	-.5016119	:	remove	emplw16
R2ADJ	-.5006993	:	remove	emplw23
R2ADJ	-.4953067	:	remove	emplw24
R2ADJ	-.4949347	:	remove	inc4w1
R2ADJ	-.4942152	:	remove	cataw3
R2ADJ	-.4991422	:	remove	movew2
R2ADJ	-.4923364	:	remove	mhlthw2
R2ADJ	-.4954525	:	remove	goferw2
R2ADJ	-.4995974	:	remove	fdferw2
R2ADJ	-.497399	:	remove	ncontw3
R2ADJ	-.5006032	:	remove	pillw1
R2ADJ	-.4999398	:	remove	pillw3
R2ADJ	-.5012446	:	remove	smokw1
R2ADJ	-.4888035	:	remove	liqw1
R2ADJ	-.5001049	:	remove	liqw2
R2ADJ	-.493591	:	remove	WHPel
R2ADJ	-.4998578	:	remove	WHPpa
R2ADJ	-.500825	:	remove	HP2probsoc
R2ADJ	-.3941262	:	remove	radchw3
R2ADJ	-.5013622	:	remove	Havmil
R2ADJ	-.5006299	:	remove	carcin

```

Stage 5 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2v
> acatn shhousw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1
> cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 li
> qw2 WHPel WHPpa HP2pr : R2ADJ -.5016779

```

R2ADJ	-.5035467	:	remove	trgovw1
R2ADJ	-.493636	:	remove	ecprw1
R2ADJ	-.497452	:	remove	polprw1
R2ADJ	-.5020379	:	remove	airw1
R2ADJ	-.4846834	:	remove	radchw1
R2ADJ	-.490143	:	remove	dauthw3
R2ADJ	-.5037768	:	remove	healthef
R2ADJ	-.5021009	:	remove	HP2vacatn
R2ADJ	-.502438	:	remove	shhousw1
R2ADJ	-.50365	:	remove	radtlw1
R2ADJ	-.4744769	:	remove	illw2
R2ADJ	-.5033565	:	remove	emplw12
R2ADJ	-.5037485	:	remove	emplw13
R2ADJ	-.5037257	:	remove	emplw16
R2ADJ	-.5028318	:	remove	emplw23
R2ADJ	-.497433	:	remove	emplw24
R2ADJ	-.4971116	:	remove	inc4w1
R2ADJ	-.4963933	:	remove	cataw3
R2ADJ	-.5012429	:	remove	movew2
R2ADJ	-.4943691	:	remove	mhlthw2
R2ADJ	-.4974717	:	remove	goferw2

R2ADJ	-.5016555	:	remove	fdferw2
R2ADJ	-.4995537	:	remove	ncontw3
R2ADJ	-.5027171	:	remove	pillw1
R2ADJ	-.5020616	:	remove	pillw3
R2ADJ	-.5033457	:	remove	smokw1
R2ADJ	-.4905277	:	remove	liqw1
R2ADJ	-.5021401	:	remove	liqw2
R2ADJ	-.4957114	:	remove	WHPel
R2ADJ	-.5020133	:	remove	WHPpa
R2ADJ	-.502921	:	remove	HP2probsoc
R2ADJ	-.3966316	:	remove	radchw3
R2ADJ	-.5034607	:	remove	Havmil
R2ADJ	-.5027081	:	remove	carcin

```

Stage 6 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 emplw24 inc4w1 cataw3 m
> oview2 mhlthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel
> WHPpa HP2probsoc ra : R2ADJ -.5037768

```

R2ADJ	-.505631	:	remove	trgovw1
R2ADJ	-.4956542	:	remove	ecprw1
R2ADJ	-.4994293	:	remove	polprw1
R2ADJ	-.5041557	:	remove	airw1
R2ADJ	-.4868891	:	remove	radchw1
R2ADJ	-.4922627	:	remove	dauthw3
R2ADJ	-.5042034	:	remove	HP2vacatn
R2ADJ	-.5045403	:	remove	shhousw1
R2ADJ	-.5057306	:	remove	radtlw1
R2ADJ	-.4767144	:	remove	illw2
R2ADJ	-.5054368	:	remove	emplw12
R2ADJ	-.505827	:	remove	emplw13
R2ADJ	-.5058072	:	remove	emplw16
R2ADJ	-.5049058	:	remove	emplw23
R2ADJ	-.499542	:	remove	emplw24
R2ADJ	-.4992439	:	remove	inc4w1
R2ADJ	-.4984872	:	remove	cataw3
R2ADJ	-.5033264	:	remove	movew2
R2ADJ	-.4965328	:	remove	mhlthw2
R2ADJ	-.499578	:	remove	goferw2
R2ADJ	-.5037045	:	remove	fdferw2
R2ADJ	-.5014753	:	remove	ncontw3
R2ADJ	-.5047744	:	remove	pillw1
R2ADJ	-.5041022	:	remove	pillw3
R2ADJ	-.505433	:	remove	smokw1
R2ADJ	-.4927125	:	remove	liqw1
R2ADJ	-.5042254	:	remove	liqw2
R2ADJ	-.4976897	:	remove	WHPel
R2ADJ	-.5041071	:	remove	WHPpa
R2ADJ	-.5050176	:	remove	HP2probsoc

R2ADJ	-.3992038	:	remove	radchw3
R2ADJ	-.5055387	:	remove	Havmil
R2ADJ	-.4711726	:	remove	carcin

```

Stage 7 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 radtlw1 illw2 emplw12 emplw16 emplw23 emplw24 inc4w1 cataw3 movew2 mh
> lthw2 goferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa H
> P2probsoc radchw3 H : R2ADJ  -.505827

```

R2ADJ	-.5076799	:	remove	trgovw1
R2ADJ	-.4977272	:	remove	ecprw1
R2ADJ	-.5015015	:	remove	polprw1
R2ADJ	-.5062172	:	remove	airw1
R2ADJ	-.4890603	:	remove	radchw1
R2ADJ	-.4938878	:	remove	dauthw3
R2ADJ	-.5062518	:	remove	HP2vacatn
R2ADJ	-.5065928	:	remove	shhousw1
R2ADJ	-.5077504	:	remove	radtlw1
R2ADJ	-.478944	:	remove	illw2
R2ADJ	-.5065893	:	remove	emplw12
R2ADJ	-.5079184	:	remove	emplw16
R2ADJ	-.5068693	:	remove	emplw23
R2ADJ	-.4972255	:	remove	emplw24
R2ADJ	-.5013152	:	remove	inc4w1
R2ADJ	-.5005414	:	remove	cataw3
R2ADJ	-.505415	:	remove	movew2
R2ADJ	-.4982535	:	remove	mhlthw2
R2ADJ	-.5016846	:	remove	goferw2
R2ADJ	-.5057768	:	remove	fdferw2
R2ADJ	-.5034568	:	remove	ncontw3
R2ADJ	-.5068904	:	remove	pillw1
R2ADJ	-.5061826	:	remove	pillw3
R2ADJ	-.5074708	:	remove	smokw1
R2ADJ	-.494878	:	remove	liqw1
R2ADJ	-.5063184	:	remove	liqw2
R2ADJ	-.4998363	:	remove	WHPel
R2ADJ	-.5060671	:	remove	WHPpa
R2ADJ	-.5070156	:	remove	HP2probsoc
R2ADJ	-.4016882	:	remove	radchw3
R2ADJ	-.5075819	:	remove	Havmil
R2ADJ	-.4731404	:	remove	carcin

```

Stage 8 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 radtlw1 illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 g
> oferw2 fdferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probs
> oc radchw3 Havmil c : R2ADJ  -.5079184

```

R2ADJ	-.5097542	:	remove	trgovw1
R2ADJ	-.4998485	:	remove	ecprw1

R2ADJ	-.5035611	:	remove	polprw1
R2ADJ	-.5082965	:	remove	airw1
R2ADJ	-.4907516	:	remove	radchw1
R2ADJ	-.495975	:	remove	dauthw3
R2ADJ	-.5083077	:	remove	HP2vacatn
R2ADJ	-.5086713	:	remove	shhousw1
R2ADJ	-.5098196	:	remove	radtlw1
R2ADJ	-.4811499	:	remove	illw2
R2ADJ	-.5066729	:	remove	emplw12
R2ADJ	-.5089643	:	remove	emplw23
R2ADJ	-.4984726	:	remove	emplw24
R2ADJ	-.5034344	:	remove	inc4w1
R2ADJ	-.5025471	:	remove	cataw3
R2ADJ	-.5074623	:	remove	movew2
R2ADJ	-.5003861	:	remove	mhlthw2
R2ADJ	-.5037997	:	remove	goferw2
R2ADJ	-.5078498	:	remove	fdferw2
R2ADJ	-.5055174	:	remove	ncontw3
R2ADJ	-.5089884	:	remove	pillw1
R2ADJ	-.5082762	:	remove	pillw3
R2ADJ	-.5095418	:	remove	smokw1
R2ADJ	-.4969193	:	remove	liqw1
R2ADJ	-.5083394	:	remove	liqw2
R2ADJ	-.5018757	:	remove	WHPel
R2ADJ	-.508134	:	remove	WHPpa
R2ADJ	-.5091126	:	remove	HP2probsoc
R2ADJ	-.4013057	:	remove	radchw3
R2ADJ	-.5096531	:	remove	Havmil
R2ADJ	-.4743068	:	remove	carcin

```

Stage 9 reg radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shh
> ousw1 illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 f
> dferw2 ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radch
> w3 Havmil carcin : R2ADJ -.5098196

```

R2ADJ	-.5116352	:	remove	trgovw1
R2ADJ	-.5018564	:	remove	ecprw1
R2ADJ	-.5054247	:	remove	polprw1
R2ADJ	-.5102174	:	remove	airw1
R2ADJ	-.4839419	:	remove	radchw1
R2ADJ	-.4981031	:	remove	dauthw3
R2ADJ	-.5102681	:	remove	HP2vacatn
R2ADJ	-.5105016	:	remove	shhousw1
R2ADJ	-.482392	:	remove	illw2
R2ADJ	-.5085503	:	remove	emplw12
R2ADJ	-.510903	:	remove	emplw23
R2ADJ	-.5003414	:	remove	emplw24
R2ADJ	-.5054034	:	remove	inc4w1
R2ADJ	-.5043942	:	remove	cataw3

R2ADJ	-.5094526	:	remove	movew2
R2ADJ	-.5024374	:	remove	mhlthw2
R2ADJ	-.5057993	:	remove	goferw2
R2ADJ	-.5097476	:	remove	fdferw2
R2ADJ	-.5074721	:	remove	ncontw3
R2ADJ	-.5109027	:	remove	pillw1
R2ADJ	-.5102788	:	remove	pillw3
R2ADJ	-.5114481	:	remove	smokw1
R2ADJ	-.4986222	:	remove	liqw1
R2ADJ	-.5102617	:	remove	liqw2
R2ADJ	-.5034424	:	remove	WHPel
R2ADJ	-.5099307	:	remove	WHPpa
R2ADJ	-.5109636	:	remove	HP2probsoc
R2ADJ	-.4031237	:	remove	radchw3
R2ADJ	-.5114635	:	remove	Havmil
R2ADJ	-.4763294	:	remove	carcin

```

Stage 10 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 Havm
> il carcin : R2ADJ -.5116352

```

R2ADJ	-.5039376	:	remove	ecprw1
R2ADJ	-.5074502	:	remove	polprw1
R2ADJ	-.5117613	:	remove	airw1
R2ADJ	-.4859298	:	remove	radchw1
R2ADJ	-.5002008	:	remove	dauthw3
R2ADJ	-.5120627	:	remove	HP2vacatn
R2ADJ	-.5123279	:	remove	shhousw1
R2ADJ	-.4842033	:	remove	illw2
R2ADJ	-.5104645	:	remove	emplw12
R2ADJ	-.5127245	:	remove	emplw23
R2ADJ	-.5020777	:	remove	emplw24
R2ADJ	-.5074336	:	remove	inc4w1
R2ADJ	-.5063936	:	remove	cataw3
R2ADJ	-.5111014	:	remove	movew2
R2ADJ	-.5039209	:	remove	mhlthw2
R2ADJ	-.5077995	:	remove	goferw2
R2ADJ	-.5115917	:	remove	fdferw2
R2ADJ	-.5093311	:	remove	ncontw3
R2ADJ	-.5126867	:	remove	pillw1
R2ADJ	-.5120139	:	remove	pillw3
R2ADJ	-.5132414	:	remove	smokw1
R2ADJ	-.5005022	:	remove	liqw1
R2ADJ	-.5121376	:	remove	liqw2
R2ADJ	-.5051373	:	remove	WHPel
R2ADJ	-.511672	:	remove	WHPpa
R2ADJ	-.5128415	:	remove	HP2probsoc
R2ADJ	-.4045576	:	remove	radchw3

R2ADJ	-.5132826	:	remove	Havmil
R2ADJ	-.4779331	:	remove	carcin

```

Stage 11 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 carc
> in : R2ADJ -.5132826

```

R2ADJ	-.5056635	:	remove	ecprw1
R2ADJ	-.5091323	:	remove	polprw1
R2ADJ	-.5135404	:	remove	airw1
R2ADJ	-.4861083	:	remove	radchw1
R2ADJ	-.5021809	:	remove	dauthw3
R2ADJ	-.5135934	:	remove	HP2vacatn
R2ADJ	-.5140606	:	remove	shhousw1
R2ADJ	-.4861164	:	remove	illw2
R2ADJ	-.5119863	:	remove	emplw12
R2ADJ	-.5142993	:	remove	emplw23
R2ADJ	-.5037396	:	remove	emplw24
R2ADJ	-.5087954	:	remove	inc4w1
R2ADJ	-.508189	:	remove	cataw3
R2ADJ	-.5130858	:	remove	movew2
R2ADJ	-.5054983	:	remove	mhlthw2
R2ADJ	-.509191	:	remove	goferw2
R2ADJ	-.5134118	:	remove	fdferw2
R2ADJ	-.5107548	:	remove	ncontw3
R2ADJ	-.5143536	:	remove	pillw1
R2ADJ	-.5136564	:	remove	pillw3
R2ADJ	-.5148921	:	remove	smokw1
R2ADJ	-.5023734	:	remove	liqw1
R2ADJ	-.513844	:	remove	liqw2
R2ADJ	-.5071608	:	remove	WHPel
R2ADJ	-.5133712	:	remove	WHPpa
R2ADJ	-.5145252	:	remove	HP2probsoc
R2ADJ	-.4046738	:	remove	radchw3
R2ADJ	-.4790579	:	remove	carcin

```

Stage 12 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2
> ncontw3 pillw1 pillw3 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 carcin : R2
> ADJ -.5148921

```

R2ADJ	-.5072012	:	remove	ecprw1
R2ADJ	-.5110142	:	remove	polprw1
R2ADJ	-.5150928	:	remove	airw1
R2ADJ	-.4882029	:	remove	radchw1
R2ADJ	-.5039753	:	remove	dauthw3
R2ADJ	-.5153243	:	remove	HP2vacatn
R2ADJ	-.5156528	:	remove	shhousw1

R2ADJ	-.4878422	:	remove	illw2
R2ADJ	-.5135652	:	remove	emplw12
R2ADJ	-.5159367	:	remove	emplw23
R2ADJ	-.5053244	:	remove	emplw24
R2ADJ	-.5108157	:	remove	inc4w1
R2ADJ	-.5096082	:	remove	cataw3
R2ADJ	-.5145831	:	remove	movew2
R2ADJ	-.5066451	:	remove	mhlthw2
R2ADJ	-.510537	:	remove	goferw2
R2ADJ	-.5149489	:	remove	fdferw2
R2ADJ	-.5123406	:	remove	ncontw3
R2ADJ	-.5160772	:	remove	pillw1
R2ADJ	-.5154199	:	remove	pillw3
R2ADJ	-.5036243	:	remove	liqw1
R2ADJ	-.5154385	:	remove	liqw2
R2ADJ	-.5086513	:	remove	WHPel
R2ADJ	-.5149929	:	remove	WHPpa
R2ADJ	-.5161873	:	remove	HP2probsoc
R2ADJ	-.4066312	:	remove	radchw3
R2ADJ	-.4811684	:	remove	carcin

```

Stage 13 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2
> ncontw3 pillw1 pillw3 liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.51618
> 73

```

R2ADJ	-.5081427	:	remove	ecprw1
R2ADJ	-.5126247	:	remove	polprw1
R2ADJ	-.516298	:	remove	airw1
R2ADJ	-.4892052	:	remove	radchw1
R2ADJ	-.5057349	:	remove	dauthw3
R2ADJ	-.5147455	:	remove	HP2vacatn
R2ADJ	-.5170788	:	remove	shhousw1
R2ADJ	-.4876458	:	remove	illw2
R2ADJ	-.5147318	:	remove	emplw12
R2ADJ	-.5172915	:	remove	emplw23
R2ADJ	-.5065865	:	remove	emplw24
R2ADJ	-.5118589	:	remove	inc4w1
R2ADJ	-.5104033	:	remove	cataw3
R2ADJ	-.5157531	:	remove	movew2
R2ADJ	-.5081746	:	remove	mhlthw2
R2ADJ	-.5118352	:	remove	goferw2
R2ADJ	-.5162657	:	remove	fdferw2
R2ADJ	-.51402	:	remove	ncontw3
R2ADJ	-.5173705	:	remove	pillw1
R2ADJ	-.5168285	:	remove	pillw3
R2ADJ	-.5052147	:	remove	liqw1
R2ADJ	-.5167766	:	remove	liqw2
R2ADJ	-.5089645	:	remove	WHPel

R2ADJ	-.5167226	:	remove	WHPpa
R2ADJ	-.4057961	:	remove	radchw3
R2ADJ	-.4817718	:	remove	carcin

```

Stage 14 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2
> ncontw3 pillw3 liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5173705

```

R2ADJ	-.5096328	:	remove	ecprw1
R2ADJ	-.5136811	:	remove	polprw1
R2ADJ	-.5170931	:	remove	airw1
R2ADJ	-.4901211	:	remove	radchw1
R2ADJ	-.5070768	:	remove	dauthw3
R2ADJ	-.515681	:	remove	HP2vacatn
R2ADJ	-.5180447	:	remove	shhousw1
R2ADJ	-.489212	:	remove	illw2
R2ADJ	-.5159417	:	remove	emplw12
R2ADJ	-.5185365	:	remove	emplw23
R2ADJ	-.5077898	:	remove	emplw24
R2ADJ	-.5130624	:	remove	inc4w1
R2ADJ	-.5116512	:	remove	cataw3
R2ADJ	-.5167089	:	remove	movew2
R2ADJ	-.5087967	:	remove	mhlthw2
R2ADJ	-.512084	:	remove	goferw2
R2ADJ	-.5174587	:	remove	fdferw2
R2ADJ	-.5152679	:	remove	ncontw3
R2ADJ	-.5187146	:	remove	pillw3
R2ADJ	-.5071239	:	remove	liqw1
R2ADJ	-.5181492	:	remove	liqw2
R2ADJ	-.5101334	:	remove	WHPel
R2ADJ	-.5176362	:	remove	WHPpa
R2ADJ	-.4059773	:	remove	radchw3
R2ADJ	-.4815466	:	remove	carcin

```

Stage 15 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw23 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2
> ncontw3 liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5187146

```

R2ADJ	-.5102473	:	remove	ecprw1
R2ADJ	-.5150483	:	remove	polprw1
R2ADJ	-.5186176	:	remove	airw1
R2ADJ	-.4918644	:	remove	radchw1
R2ADJ	-.5084222	:	remove	dauthw3
R2ADJ	-.5174301	:	remove	HP2vacatn
R2ADJ	-.5194757	:	remove	shhousw1
R2ADJ	-.4897972	:	remove	illw2
R2ADJ	-.5176049	:	remove	emplw12
R2ADJ	-.5199358	:	remove	emplw23
R2ADJ	-.5091498	:	remove	emplw24

R2ADJ	-.5142853	:	remove	inc4w1
R2ADJ	-.5134246	:	remove	cataw3
R2ADJ	-.5182712	:	remove	movew2
R2ADJ	-.51064	:	remove	mhlthw2
R2ADJ	-.5133748	:	remove	goferw2
R2ADJ	-.518763	:	remove	fdferw2
R2ADJ	-.5168678	:	remove	ncontw3
R2ADJ	-.5085901	:	remove	liqw1
R2ADJ	-.5194196	:	remove	liqw2
R2ADJ	-.5115573	:	remove	WHPel
R2ADJ	-.5189137	:	remove	WHPpa
R2ADJ	-.4083295	:	remove	radchw3
R2ADJ	-.4824531	:	remove	carcin

```

Stage 16 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn shhousw1
> illw2 emplw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3
> liqw1 liqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5199358

```

R2ADJ	-.5110545	:	remove	ecprw1
R2ADJ	-.5159623	:	remove	polprw1
R2ADJ	-.5197024	:	remove	airw1
R2ADJ	-.4926687	:	remove	radchw1
R2ADJ	-.5091768	:	remove	dauthw3
R2ADJ	-.5181004	:	remove	HP2vacatn
R2ADJ	-.5207687	:	remove	shhousw1
R2ADJ	-.4902568	:	remove	illw2
R2ADJ	-.5193325	:	remove	emplw12
R2ADJ	-.5102487	:	remove	emplw24
R2ADJ	-.5159762	:	remove	inc4w1
R2ADJ	-.5146363	:	remove	cataw3
R2ADJ	-.519358	:	remove	movew2
R2ADJ	-.5123598	:	remove	mhlthw2
R2ADJ	-.514834	:	remove	goferw2
R2ADJ	-.5201204	:	remove	fdferw2
R2ADJ	-.5178471	:	remove	ncontw3
R2ADJ	-.5103478	:	remove	liqw1
R2ADJ	-.5207136	:	remove	liqw2
R2ADJ	-.5123989	:	remove	WHPel
R2ADJ	-.5200865	:	remove	WHPpa
R2ADJ	-.4104722	:	remove	radchw3
R2ADJ	-.4831667	:	remove	carcin

```

Stage 17 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 liqw1 l
> iqw2 WHPel WHPpa radchw3 carcin : R2ADJ -.5207687

```

R2ADJ	-.5096372	:	remove	ecprw1
R2ADJ	-.516767	:	remove	polprw1
R2ADJ	-.5206391	:	remove	airw1

R2ADJ	-.4943353	:	remove	radchw1
R2ADJ	-.5090403	:	remove	dauthw3
R2ADJ	-.5188907	:	remove	HP2vacatn
R2ADJ	-.4908856	:	remove	illw2
R2ADJ	-.5203158	:	remove	emplw12
R2ADJ	-.5110138	:	remove	emplw24
R2ADJ	-.5163403	:	remove	inc4w1
R2ADJ	-.5155135	:	remove	cataw3
R2ADJ	-.5203672	:	remove	movew2
R2ADJ	-.5123896	:	remove	mhlthw2
R2ADJ	-.5145379	:	remove	goferw2
R2ADJ	-.521053	:	remove	fdferw2
R2ADJ	-.5187185	:	remove	ncontw3
R2ADJ	-.5108934	:	remove	liqw1
R2ADJ	-.5215418	:	remove	liqw2
R2ADJ	-.5133493	:	remove	WHPel
R2ADJ	-.5211389	:	remove	WHPpa
R2ADJ	-.4128883	:	remove	radchw3
R2ADJ	-.4842653	:	remove	carcin

```

Stage 18 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 liqw1 W
> HPe1 WHPpa radchw3 carcin : R2ADJ -.5215418

```

R2ADJ	-.5100194	:	remove	ecprw1
R2ADJ	-.5169247	:	remove	polprw1
R2ADJ	-.5211714	:	remove	airw1
R2ADJ	-.495795	:	remove	radchw1
R2ADJ	-.5103074	:	remove	dauthw3
R2ADJ	-.5193987	:	remove	HP2vacatn
R2ADJ	-.4915248	:	remove	illw2
R2ADJ	-.5203846	:	remove	emplw12
R2ADJ	-.5121895	:	remove	emplw24
R2ADJ	-.517335	:	remove	inc4w1
R2ADJ	-.5160296	:	remove	cataw3
R2ADJ	-.5212391	:	remove	movew2
R2ADJ	-.513234	:	remove	mhlthw2
R2ADJ	-.5149382	:	remove	goferw2
R2ADJ	-.5216943	:	remove	fdferw2
R2ADJ	-.5197431	:	remove	ncontw3
R2ADJ	-.5105423	:	remove	liqw1
R2ADJ	-.5144383	:	remove	WHPel
R2ADJ	-.5219	:	remove	WHPpa
R2ADJ	-.4141008	:	remove	radchw3
R2ADJ	-.4856986	:	remove	carcin

```

Stage 19 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 fdferw2 ncontw3 liqw1 W
> HPe1 radchw3 carcin : R2ADJ -.5219

```

R2ADJ	-.5112158	:	remove	ecprw1
R2ADJ	-.517489	:	remove	polprw1
R2ADJ	-.5217615	:	remove	airw1
R2ADJ	-.4958332	:	remove	radchw1
R2ADJ	-.5095487	:	remove	dauthw3
R2ADJ	-.5208161	:	remove	HP2vacatn
R2ADJ	-.4931951	:	remove	illw2
R2ADJ	-.5209425	:	remove	emplw12
R2ADJ	-.5126214	:	remove	emplw24
R2ADJ	-.5178215	:	remove	inc4w1
R2ADJ	-.5166807	:	remove	cataw3
R2ADJ	-.5215694	:	remove	movew2
R2ADJ	-.5139091	:	remove	mhlthw2
R2ADJ	-.5162808	:	remove	goferw2
R2ADJ	-.5225309	:	remove	fdferw2
R2ADJ	-.519971	:	remove	ncontw3
R2ADJ	-.5120502	:	remove	liqw1
R2ADJ	-.5164093	:	remove	WHPel
R2ADJ	-.4162271	:	remove	radchw3
R2ADJ	-.4850994	:	remove	carcin

```

Stage 20 reg radfmw3 ecprw1 polprw1 airw1 radchw1 dauthw3 HP2vacatn illw2 em
> plw12 emplw24 inc4w1 cataw3 movew2 mhlthw2 goferw2 ncontw3 liqw1 WHPel r
> adchw3 carcin : R2ADJ -.5225309

```

R2ADJ	-.512453	:	remove	ecprw1
R2ADJ	-.5186693	:	remove	polprw1
R2ADJ	-.5221636	:	remove	airw1
R2ADJ	-.4966632	:	remove	radchw1
R2ADJ	-.5107767	:	remove	dauthw3
R2ADJ	-.5214388	:	remove	HP2vacatn
R2ADJ	-.4951153	:	remove	illw2
R2ADJ	-.521202	:	remove	emplw12
R2ADJ	-.5133662	:	remove	emplw24
R2ADJ	-.5180692	:	remove	inc4w1
R2ADJ	-.5172593	:	remove	cataw3
R2ADJ	-.5221104	:	remove	movew2
R2ADJ	-.5150956	:	remove	mhlthw2
R2ADJ	-.5178928	:	remove	goferw2
R2ADJ	-.5209067	:	remove	ncontw3
R2ADJ	-.5124306	:	remove	liqw1
R2ADJ	-.5175416	:	remove	WHPel
R2ADJ	-.4148192	:	remove	radchw3
R2ADJ	-.4868809	:	remove	carcin

Final Model

Source	SS	df	MS	Number of obs =	266
Model	163811.849	19	8621.67626	F(19, 246) =	16.26
Residual	130409.204	246	530.118714	Prob > F =	0.0000
				R-squared =	0.5568
				Adj R-squared =	0.5225
Total	294221.053	265	1110.26812	Root MSE =	23.024

radfmw3	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ecprw1	.1254988	.0503471	2.49	0.013	.0263324	.2246653
polprw1	.0941924	.0544032	1.73	0.085	-.0129631	.2013479
airw1	.0601755	.0551626	1.09	0.276	-.0484757	.1688267
radchw1	-.2099751	.0553686	-3.79	0.000	-.319032	-.1009181
dauthw3	.1156282	.0434539	2.66	0.008	.0300391	.2012173
HP2vacatn	5.402456	4.318603	1.25	0.212	-3.103699	13.90861
illw2	6.56711	1.685405	3.90	0.000	3.247445	9.886776
emplw12	4.558075	3.508865	1.30	0.195	-2.353176	11.46933
emplw24	-56.58483	23.61595	-2.40	0.017	-103.1001	-10.06958
inc4w1	-10.86351	5.97285	-1.82	0.070	-22.62796	.9009356
cataw3	33.26305	17.22973	1.93	0.055	-.6735585	67.19966
movew2	-4.660553	4.223784	-1.10	0.271	-12.97995	3.658839
mhlthw2	-.1853882	.084212	-2.20	0.029	-.3512568	-.0195196
goferw2	.1570533	.085182	1.84	0.066	-.0107259	.3248324
ncontw3	-4.512832	3.326704	-1.36	0.176	-11.06529	2.039624
liqw1	3.136153	1.25698	2.49	0.013	.660337	5.61197
WHPel	.0911958	.0481917	1.89	0.060	-.0037251	.1861167
radchw3	.4378951	.0581434	7.53	0.000	.3233727	.5524175
carcin	.2345435	.0531926	4.41	0.000	.1297725	.3393146
_cons	23.41992	11.95145	1.96	0.051	-.120309	46.96014

```

470 .
471 . vselect radfmw3 trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vac
> atn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, best
97 Observations Containing Missing Predictor Values

```

Response : radfmw3
 Fixed Predictors :
 Selected Predictors: radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPe
 > l cataw3 inc4w1 emplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3
 > HP2vacatn airw1 liqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smok
 > w1 Havmil radtlw1 emplw16 trgovw1 emplw13 goferw1 childw1 healthef fdferw1 d
 > eaw1 trrepw1

Actual Regressions **93566**
 Possible Regressions **5.500e+11**

Optimal Models Highlighted:

#	Preds	R2ADJ	C	AIC	AICC	BIC
1		.2355937	134.2978	2550.692	3305.659	2557.859
2		.3323882	84.80472	2515.668	3270.697	2526.419
3		.3766738	62.70824	2498.398	3253.504	2512.732
4		.4241354	39.15786	2478.314	3233.513	2496.231
5		.4413257	31.24988	2471.231	3226.541	2492.732
6		.4574095	23.97224	2464.436	3219.872	2489.52
7		.4720774	17.47516	2458.117	3213.696	2486.785
8		.4831957	12.82708	2453.422	3209.16	2485.674
9		.4937031	8.529849	2448.921	3204.836	2484.756
10		.5009288	5.917193	2446.057	3202.165	2485.475
11		.5074787	3.670039	2443.497	3199.817	2486.499
12		.5125889	2.163869	2441.674	3198.222	2488.259
13		.5150109	2.00815	2441.295	3198.09	2491.464
14		.5179364	1.61373	2440.628	3197.688	2494.38
15		.5196916	1.805369	2440.596	3197.939	2497.932
16		.5208596	2.290972	2440.882	3198.527	2501.801
17		.5218728	2.856596	2441.249	3199.213	2505.751
18		.5221636	3.776624	2442.012	3200.316	2510.098
19		.5225309	4.660817	2442.728	3201.391	2514.398
20		.5219	6.026731	2443.996	3203.036	2519.25
21		.5215418	7.259469	2445.107	3204.545	2523.944
22		.5207687	8.688787	2446.444	3206.299	2528.865
23		.5199358	10.1435	2447.809	3208.101	2533.813
24		.5187146	11.77874	2449.384	3210.134	2538.971
25		.5173705	13.46707	2451.02	3212.248	2544.19
26		.5161873	15.07462	2452.56	3214.288	2549.315
27		.5148921	16.7299	2454.156	3216.404	2554.494
28		.5132826	18.52631	2455.917	3218.707	2559.839
29		.5116352	20.334	2457.691	3221.045	2565.196
30		.5098196	22.21283	2459.549	3223.488	2570.637
31		.5079184	24.12391	2461.444	3225.992	2576.116
32		.5058538	26.10222	2463.419	3228.597	2581.674
33		.5037768	28.07812	2465.39	3231.222	2587.229
34		.5016779	30.05575	2467.364	3233.872	2592.786
35		.4995494	32.03853	2469.344	3236.552	2598.35

36	.4974036	34.02076	2471.323	3239.255	2603.912
37	.4952249	36.00925	2473.309	3241.99	2609.482
38	.4930201	38.00083	2475.299	3244.752	2615.056
39	.4907787	40	2477.298	3247.549	2620.638

Selected Predictors

```

1 : radchw3
2 : radchw3 carcin
3 : radchw3 illw2 ecprw1
4 : radchw3 illw2 ecprw1 carcin
5 : radchw3 illw2 ecprw1 mhlthw2 carcin
6 : radchw3 illw2 liqw1 ecprw1 mhlthw2 carcin
7 : radchw3 illw2 liqw1 ecprw1 mhlthw2 emplw24 carcin
8 : radchw3 illw2 radchw1 liqw1 ecprw1 mhlthw2 emplw24 carcin
9 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 emplw24 carcin
10 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 emplw24 polprw1 carci
> n
11 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel emplw24 polprw1
> carcin
12 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 emplw24
> polprw1 carcin
13 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel inc4w1 emplw24
> polprw1 goferw2 carcin
14 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 carcin
15 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 carcin emplw12
16 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 carcin emplw12
17 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 HP2vacatn carcin emplw12
18 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 HP2vacatn carcin emplw12
19 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 HP2vacatn airw1 carcin emplw12
20 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 fdferw2 HP2vacatn airw1 carcin emplw12
21 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 HP2vacatn airw1 carcin e
> mplw12
22 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 HP2vacatn airw1 liqw2 ca
> rcin emplw12
23 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 HP2vacatn airw1 liqw2 sh
> housw1 carcin emplw12
24 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e

```

```

> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 HP2vacatn airw1 liqw2 sh
> housw1 carcin emplw23 emplw12
25 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 carcin emplw23 emplw12
26 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 emplw12
27 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12
28 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1
29 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil
30 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil trgovw1
31 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> trgovw1
32 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> trgovw1 healthef
33 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13
34 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13 healthef
35 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13 childw1 healthef
36 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13 goferw1 childw1 healthef
37 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13 goferw1 childw1 healthef fdferw1
38 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e

```

```

> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13 goferw1 childw1 healthef fdferw1 deaw1
39 : radchw3 illw2 radchw1 dauthw3 liqw1 ecprw1 mhlthw2 WHPel cataw3 inc4w1 e
> mplw24 polprw1 goferw2 ncontw3 movew2 WHPpa fdferw2 pillw3 HP2vacatn airw1 l
> iqw2 shhousw1 pillw1 carcin emplw23 HP2probsoc emplw12 smokw1 Havmil radtlw1
> emplw16 trgovw1 emplw13 goferw1 childw1 healthef fdferw1 deaw1 trrepw1

```

```

472 .
473 .
474 . subtitle "full factor analytic model with level of measurement assumption vi
> olation"

```

```

Date and time: 26 Apr 2012 12:55:01
Stata version: 12.1
Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
using 33554432 bytes of memory
Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
Stata data file: chwide22apr2012female
> s.dta
data file has 2196 variables
and 363 observations

```

full factor analytic model with level of measurement assumption violation

```

475 . factor trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 illw2 emplw12 emplw13 emplw16 emplw23 //
> /
> emplw24 inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw
> 2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin , factors(7)
(obs=266)

```

Factor analysis/correlation	Number of obs	=	266
Method: principal factors	Retained factors	=	7
Rotation: (unrotated)	Number of params	=	252

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.56523	1.92463	0.2400	0.2400
Factor2	2.64060	0.17000	0.1388	0.3788
Factor3	2.47060	0.71419	0.1299	0.5087
Factor4	1.75641	0.33148	0.0923	0.6011
Factor5	1.42493	0.20991	0.0749	0.6760
Factor6	1.21502	0.09700	0.0639	0.7399
Factor7	1.11802	0.07697	0.0588	0.7987
Factor8	1.04105	0.02825	0.0547	0.8534
Factor9	1.01280	0.14786	0.0532	0.9066
Factor10	0.86493	0.14273	0.0455	0.9521
Factor11	0.72221	0.12414	0.0380	0.9901
Factor12	0.59807	0.12048	0.0314	1.0215
Factor13	0.47759	0.08355	0.0251	1.0466
Factor14	0.39403	0.05120	0.0207	1.0673
Factor15	0.34283	0.08485	0.0180	1.0854
Factor16	0.25798	0.06214	0.0136	1.0989
Factor17	0.19583	0.04798	0.0103	1.1092
Factor18	0.14786	0.04001	0.0078	1.1170
Factor19	0.10784	0.03511	0.0057	1.1227
Factor20	0.07273	0.01901	0.0038	1.1265
Factor21	0.05372	0.03896	0.0028	1.1293
Factor22	0.01476	0.01340	0.0008	1.1301
Factor23	0.00136	0.00903	0.0001	1.1302
Factor24	-0.00767	0.02353	-0.0004	1.1298
Factor25	-0.03119	0.01584	-0.0016	1.1281
Factor26	-0.04703	0.02124	-0.0025	1.1257
Factor27	-0.06828	0.02888	-0.0036	1.1221
Factor28	-0.09716	0.01104	-0.0051	1.1170
Factor29	-0.10820	0.02082	-0.0057	1.1113
Factor30	-0.12901	0.03474	-0.0068	1.1045
Factor31	-0.16375	0.00928	-0.0086	1.0959
Factor32	-0.17303	0.01192	-0.0091	1.0868
Factor33	-0.18496	0.01370	-0.0097	1.0771
Factor34	-0.19866	0.01300	-0.0104	1.0666
Factor35	-0.21166	0.02748	-0.0111	1.0555
Factor36	-0.23914	0.00563	-0.0126	1.0429
Factor37	-0.24477	0.02124	-0.0129	1.0300
Factor38	-0.26602	0.03940	-0.0140	1.0161
Factor39	-0.30542	.	-0.0161	1.0000

LR test: independent vs. saturated: $\chi^2(741) = 4806.31$ Prob> $\chi^2 = 0.0000$

Factor loadings (pattern matrix) and unique variances

		Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
		Factor7	Uniqueness					
>		trgovw1	0.3798	0.2680	-0.0551	-0.0143	-0.1889	-0.4687
>	0.3223		0.4214					
>		ecprw1	0.4679	0.1354	-0.2311	0.0834	0.0790	0.0910
>	0.3809		0.5428					
>		polprw1	0.3380	-0.1101	-0.4182	0.0368	0.1621	0.1918
>	0.3819		0.4885					
>		airw1	0.2720	-0.1913	-0.3696	0.0569	0.2471	0.3111
>	0.3811		0.4465					
>		radchw1	0.4416	-0.3005	-0.5356	-0.1165	0.1491	-0.0314
>	-0.2904		0.3067					
>		dauthw3	0.1120	0.0270	-0.2277	0.0500	0.0761	0.0622
>	-0.0309		0.9218					
>		healthef	0.5237	0.4061	0.2232	-0.6119	0.2377	-0.0031
>	-0.0256		0.0794					
>		HP2vacatn	0.3491	-0.0468	0.1767	0.3288	0.2967	-0.2194
>	-0.0689		0.5957					
>		shhousw1	0.3421	0.1433	-0.0279	0.1963	-0.0298	0.1087
>	0.1417		0.7903					
>		trrepw1	0.3944	0.1755	-0.0993	0.1119	-0.3153	-0.4687
>	0.2558		0.4067					
>		childw1	0.4196	-0.3487	0.1994	-0.0260	-0.0826	-0.0097
>	0.1593		0.6296					
>		radtlw1	0.3456	-0.2075	-0.5690	-0.0840	0.1523	-0.0349
>	-0.2489		0.4203					
>		illw2	0.2095	0.0126	0.3612	-0.0575	-0.0202	-0.0165
>	-0.0292		0.8206					
>		emplw12	0.2802	-0.7879	0.2244	-0.2791	-0.3198	-0.0331
>	0.1083		0.0574					
>		emplw13	-0.1045	0.1897	-0.0584	0.4212	0.1469	0.1075
>	-0.1405		0.7194					
>		emplw16	-0.2636	0.7456	-0.1965	0.0482	0.2478	-0.0095
>	0.0035		0.2721					
>		emplw23	-0.0026	0.2292	-0.0499	0.1513	0.2020	0.0190
>	0.0619		0.8771					
>		emplw24	-0.0368	0.0293	-0.0662	-0.1271	0.0409	-0.1233
>	-0.1497		0.9380					
>		inc4w1	-0.0980	-0.1326	0.2147	0.0219	-0.0679	0.1191
>	-0.0155		0.9072					
>		deaw1	0.3613	-0.0200	-0.1094	-0.0013	-0.0144	0.0142
>	0.0442		0.8548					
>		cataw3	0.0675	0.0585	-0.0320	0.0707	-0.1557	-0.0950
>	-0.1846		0.9186					
>		movew2	-0.1261	0.2146	0.0582	0.0345	-0.0749	0.0469

>	0.0383		0.9242					
	mhlthw2		-0.1919	0.1187	-0.1457	-0.1484	-0.1056	-0.1152
>	0.0163		0.8812					
	goferw1		0.6385	0.0924	0.0112	0.0243	-0.2346	0.1657
>	-0.1708		0.4714					
	goferw2		0.4617	0.3265	0.0203	0.1806	-0.3891	0.1347
>	-0.1061		0.4664					
	fdferw1		0.6238	0.1554	0.0039	0.1179	-0.2406	0.3060
>	-0.1681		0.3929					
	fdferw2		0.4166	0.3994	0.0800	0.1966	-0.3190	0.2748
>	-0.0795		0.4383					
	ncontw3		0.1599	-0.0709	0.1702	0.1358	0.0830	-0.0530
>	-0.0129		0.9121					
	pillw1		0.2868	-0.0636	-0.0369	0.1731	-0.0244	0.1434
>	-0.0630		0.8572					
	pillw3		0.1429	-0.2342	0.0950	0.1895	0.0596	0.0017
>	-0.0327		0.8752					
	smokw1		-0.0443	-0.1643	0.0820	-0.0270	-0.0527	0.1061
>	-0.0794		0.9432					
	liqw1		0.1580	-0.1304	0.4741	-0.1517	0.1305	0.2563
>	0.1610		0.6016					
	liqw2		-0.0306	0.0649	0.4651	-0.0937	0.1450	0.2465
>	0.0256		0.6874					
	WHPel		0.3519	-0.0146	0.3619	0.2524	0.2476	-0.0730
>	-0.1166		0.6010					
	WHPpa		0.4776	-0.1521	0.2727	0.2572	0.2669	-0.1578
>	0.0120		0.5119					
	HP2probsoc		0.4772	-0.0739	0.3075	0.2808	0.2431	-0.2877
>	-0.1297		0.4347					
	radchw3		0.4887	-0.0921	-0.3827	-0.2531	-0.0163	-0.0947
>	-0.2673		0.4615					
	Havmil		-0.0651	0.2593	0.1090	-0.0688	-0.2311	-0.0479
>	0.0478		0.8539					
	carcin		0.5272	0.4053	0.2075	-0.6153	0.2356	-0.0083
>	-0.0212		0.0802					

> _____

```

476 . // 7 factors account for 77.45% of the common variance
477 .
478 . rotate, blanks(.36)

```

```

Factor analysis/correlation
Method: principal factors
Rotation: orthogonal varimax (Kaiser off)
Number of obs   = 266
Retained factors = 7
Number of params = 252

```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	2.53103	0.08773	0.1331	0.1331
Factor2	2.44330	0.03765	0.1285	0.2615
Factor3	2.40565	0.07246	0.1265	0.3880
Factor4	2.33318	0.07640	0.1227	0.5107
Factor5	2.25679	0.60361	0.1187	0.6293
Factor6	1.65318	0.08551	0.0869	0.7162
Factor7	1.56767	.	0.0824	0.7987

LR test: independent vs. saturated: $\chi^2(741) = 4806.31$ Prob> $\chi^2 = 0.0000$

Rotated factor loadings (pattern matrix) and unique variances

Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor7	Uniqueness					
trgovw1	0.4214					
ecprw1	0.5428					0.5440
polprw1	0.4885					0.6616
airw1	0.4465					0.7116
radchw1	0.3067			0.7943		
dauthw3	0.9218					
healthef	0.0794	0.9478				
HP2vacatn	0.5957				0.6227	
shhousw1	0.7903					
trrepw1	0.4067					

>	childw1	0.5042	
		0.6296	
>	radtlw1		0.7394
		0.4203	
>	illw2		
		0.8206	
>	emplw12	0.9676	
		0.0574	
>	emplw13	-0.3780	
		0.7194	
>	emplw16	-0.8203	
		0.2721	
>	emplw23		
		0.8771	
>	emplw24		
		0.9380	
>	inc4w1		
		0.9072	
>	deaw1		
		0.8548	
>	cataw3		
		0.9186	
>	movew2		
		0.9242	
>	mhlthw2		
		0.8812	
>	goferw1		0.6130
		0.4714	
>	goferw2		0.6905
		0.4664	
>	fdferw1		0.7177
		0.3929	
>	fdferw2		0.7165
		0.4383	
>	ncontw3		
		0.9121	
>	pillw1		
		0.8572	
>	pillw3		
		0.8752	
>	smokw1		
		0.9432	
>	liqw1		
		0.6016	
>	liqw2		-0.3798
		0.6874	
>	WHPel		0.5946
		0.6010	
>	WHPpa		0.6486


```

479 .
480 . // items with missing values are dropped
481 . /*pwcrr trgowl ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn //
> /
> shhousw1 trrepw1 childw1 radtlw1 emplw23 emplw12 emplw13 emplw16 emplw23 /
> //
> emplw24 inc4w1 deaw1 movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> ncontw3 pillw1 pillw3 smokw1 liqw1 liqw2 WHPel WHPpa HP2probsoc radchw3 H
> avmil ///
> carcin, sig obs
> */
482 .
483 . des trgowl ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn ///
> shhousw1 trrepw1 childw1 radtlw1 ///
> movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> pillw3 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin

```

variable name	storage type	display format	value label	variable label
trgowl	byte	%8.0g		level of trust in government reports about chornobyl in time period 1976-1986
ecprw1	byte	%8.0g		consider hazardous (in percent) - economic problems in 1986
polprw1	byte	%8.0g		consider hazardous (in percent) - political problems in 1986
airw1	byte	%8.0g		consider hazardous (in percent) - air and water pollution in 1986
radchw1	byte	%8.0g		believed % of polution related to chornobyl in 1986
dauthw3	byte	%8.0g		level of danger by authorities (in percent) NOW
healthef	byte	%8.0g		* a person exposed to any radiation likely to suffer from (% of agreement)
HP2vacatn	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth probs interfering with vacations
shhousw1	byte	%8.0g		Percentage of strains and hassles related to housing in 1986
trrepw1	byte	%8.0g		* level of trust in medical/scientific reports about chornobyl in time period 197
childw1	byte	%8.0g		number of children in 1986
radtlw1	byte	%8.0g		believed % of cumulative

				radiation exposed to in a lifetime in 1986
movew2	byte	%8.0g		Total number of moves experienced in time period 1987-1996
mhlthw2	byte	%8.0g		level of general psychological/mental health in 1996
goferw1	byte	%8.0g		level of fear in percent from going outdoors in 1976-1986
goferw2	byte	%8.0g		level of fear in percent from going outdoors in 1987-1996
fdferw1	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 197
fdferw2	byte	%8.0g		* level of fear in percent from consuming foods contaminated with radiation in 198
pillw3	byte	%8.0g		number of pills for pain per week in 1997-now
liqw2	byte	%8.0g		number of spirits per week in 1987-1996
WHPel	float	%9.0g		Wtd Health Profile Pt 1 Energy Level Subscale
WHPpa	float	%9.0g		Wtd Health Profile Physical Ability Pt 1 Subscale
HP2probsoc	byte	%9.0g	hp2fmt	Hlth profile Pt2: Hlth causing probs with social life
radchw3	byte	%8.0g		believed % of polution related to chornobyl NOW
Havmil	float	%9.0g		Distance from Chornobyl in miles
carcin	byte	%8.0g		* a person exposed to carcinogen is likely to get cancer (% of agreement)

484 .

485 . subtitle "Polychoric correlation input to female radfmw3 factor analysis of
> waves 1 2 and 3"

```

Date and time: 26 Apr 2012    12:55:01
Stata version: 12.1
Operating system: MacOSX    10.6.8    on
> Macintosh (Intel 64-bit) with 4 processors
    using 33554432 bytes of memory
    Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
    Stata data file: chwide22apr2012female
> s.dta
    data file has 2196 variables

```

and 363 observations

Polychoric correlation input to female radfmw3 factor analysis of waves 1 2 and 3

```
486 . polychoricpca trgovw1 ecprw1 polprw1 airw1 radchw1 dauthw3 healthef HP2vacatn
> n ///
> shhousw1 trrepw1 childw1 radtlw1 ///
> movew2 mhlthw2 goferw1 goferw2 fdferw1 fdferw2 ///
> pillw3 liqw2 WHPel WHPpa HP2probsoc radchw3 Havmil ///
> carcin
```

Polychoric correlation matrix

	trgovw1	ecprw1	polprw1	airw1	radchw1	dauthw3	healthef	HP2vacatn	shhousw1	trrepw1	childw1	radtlw1	movew2	mhlthw2	goferw1	goferw2	fdferw1	fdferw2	pillw3
> trgovw1	1																		
> ecprw1	.28859277	1																	
> polprw1	.11801945	.3928653	1																
> airw1	-.03161785	.3894387	.61122023	1															
> radchw1	.04166414	.13477172	.34660255	.28189324	1														
> dauthw3	.08167052	.12677604	.08015559	.07477056	.20314918	1													
> healthef	.25442484	.19766103	.04033379	.01429384	.0806502	-.0207	1												
> HP2vacatn	.16513508	.15028258	.11272925	.03146053	.19567907	.0014	.07009103	1											
> shhousw1	.14309352	.32199476	.12630359	.1053291	.07700469	.1345	.10113147	.15386047	1										
> trrepw1	.68869281	.2221981	.11544428	-.01571451	.09005529	.0623	.1005603	.14016015	.19651434	1									
> childw1	.09334401	.24329379	.1719435	.11280561	.13960761	-.0050	.13307373	.19540017	.1356385	.11280561	1								
> radtlw1	.04919999	.17835437	.27321118	.24832092	.70576801	.2520	.04973925	.1263297	.05080114	.27321118	.24832092	1							
> movew2	.09182652	-.20547066	-.07083791	-.06204363	-.22715104	-.1132	.09182652	-.20547066	-.07083791	-.06204363	-.22715104	-.1132	1						
> mhlthw2	.06946725	-.01854396	-.06640915	-.14422791	-.03638281	.0591	.06946725	-.01854396	-.06640915	-.14422791	-.03638281	.0591	-.06640915	1					
> goferw1	.18220139	.24784855	.10729205	.05449081	.23602673	.1115	.18220139	.24784855	.10729205	.05449081	.23602673	.1115	.05449081	.23602673	1				
> goferw2	.20418621	.23584373	.01762824	.00308118	.03191754	-.0141	.20418621	.23584373	.01762824	.00308118	.03191754	-.0141	.00308118	.03191754	-.0141	1			
> fdferw1	.1175841	.25403045	.19231927	.11373535	.21019865	.1375	.1175841	.25403045	.19231927	.11373535	.21019865	.1375	.11373535	.21019865	.1375	.19231927	1		
> fdferw2	.14152777	.22559114	.08167114	.01352264	-.02163182	.0290	.14152777	.22559114	.08167114	.01352264	-.02163182	.0290	.01352264	-.02163182	.0290	.08167114	.01352264	1	
> pillw3	.00696819	-.06166724	.04523843	.08531672	.06883702	-.0096	.00696819	-.06166724	.04523843	.08531672	.06883702	-.0096	.08531672	.06883702	-.0096	.04523843	.08531672	.06883702	1

```

> 7799 -.04349494 .17694247 .04163556
      liqw2 -.03862569 -.12806617 -.21996792 -.15890456 -.23113272 .0324
> 6814 .18765144 -.03789597 .00429827
      WHPel .03610819 .04887979 -.07491078 -.03956261 -.01070668 .01
> 5009 .18341958 .44806923 .13572413
      WHPpa .12368728 .17998984 .10527756 .12295099 .13510987 -.0609
> 9581 .11343135 .49768441 .18999759
HP2probsoc .21440158 .17609535 -.00657573 .00877428 .14881776 -.0910
> 1339 .2684481 .82500881 .09855659
      radchw3 .12763238 .19079393 .22046608 .14226822 .62778158 .079
> 7472 .24859923 .06902496 .03800995
      Havmil .07130262 -.05311769 -.09332771 -.14694944 -.17810989 -.1437
> 9213 .08019806 -.05670042 -.04625728
      carcin .25997453 .20573416 .05174142 .01673589 .09026124 -.0184
> 7693 .9923397 .06335885 .09745947

      trrepw1      childw1      radtlw1      movew2      mhlthw2      gof
> erwl      goferw2      fdferw1      fdferw2
      trrepw1      1
      childw1      .13856382      1
      radtlw1      .06813526      .0998403      1
      movew2      -.09828649      -.20480689      -.29683171      1
      mhlthw2      .02431863      -.16763105      -.01453582      -.03388494      1
      goferw1      .25275289      .26507402      .16606021      -.16991088      -.0108195
>      1
      goferw2      .26124384      .12835047      .06427539      .13439966      -.04983399      .4145
> 9995      1
      fdferw1      .18261871      .19881901      .14487332      -.09325263      -.1009811      .7059
> 5182      .39529023      1
      fdferw2      .18128435      .03096658      -.01042525      .14342739      -.11455515      .3143
> 2805      .62657717      .53654942      1
      pillw3      .04557374      .09182869      -.0296717      -.41850999      -.14224143      -.0063
> 7678      -.00539128      -.01917617      -.0020618
      liqw2      -.1231931      .03413774      -.25972075      .12014926      .01367211      .0981
> 7949      -.0618692      .0480406      .02381149
      WHPel      .0640612      .21420758      -.07404251      .01201938      -.33116739      .1461
> 6235      .09766643      .23141275      .16662611
      WHPpa      .12199503      .37007776      .08548527      -.08357679      -.19643422      .1814
> 3421      .16461507      .17682788      .06022856
HP2probsoc      .23150791      .37474635      .05276879      -.22158376      -.14924655      .3193
> 8486      .16185376      .29611015      .13301171
      radchw3      .15226495      .15685941      .50026176      -.11102746      .04722786      .3077
> 4694      .20933389      .23353496      .07660773
      Havmil      .08423715      -.05523818      -.20185284      .23108569      .04684673      -.0818
> 5322      .17219091      -.01053957      .18116714
      carcin      .10771753      .14381933      .05818175      -.05690067      -.07649724      .266
> 3634      .18169685      .23753168      .21509858

```

```

                pillw3      liqw2      WHPel      WHPpa      HP2probsoc      rad
> chw3      Havmil      carcin
    pillw3      1
    liqw2      -.03629435      1
    WHPel      .09616168      .11917044      1
    WHPpa      .13558619      .06196506      .50995347      1
HP2probsoc      .17552845      .13158997      .58126823      .60920643      1
    radchw3      .03896238      -.15367164      -.01806647      .14775872      .21203563
>      1
    Havmil      -.0614773      .04816902      -.27131422      -.06395478      -.20535273      .0195
> 6795      1
    carcin      -.05035509      .181311      .1907086      .11203093      .26805762      .2578
> 2604      .08130166      1

```

Principal component analysis

k	Eigenvalues	Proportion explained	Cum. explained
1	4.882889	0.187803	0.187803
2	2.783410	0.107054	0.294858
3	2.434777	0.093645	0.388503
4	1.770348	0.068090	0.456593
5	1.575893	0.060611	0.517204
6	1.492183	0.057392	0.574596
7	1.269746	0.048836	0.623432
8	1.218453	0.046864	0.670296
9	1.052770	0.040491	0.710787
10	0.913185	0.035123	0.745910
11	0.884968	0.034037	0.779947
12	0.830939	0.031959	0.811906
13	0.718074	0.027618	0.839524
14	0.623982	0.023999	0.863524
15	0.558806	0.021493	0.885016
16	0.509310	0.019589	0.904605
17	0.452251	0.017394	0.921999
18	0.435393	0.016746	0.938745
19	0.357496	0.013750	0.952495
20	0.328990	0.012653	0.965149
21	0.286583	0.011022	0.976171
22	0.231967	0.008922	0.985093
23	0.191760	0.007375	0.992468
24	0.153058	0.005887	0.998355
25	0.035848	0.001379	0.999734
26	0.006923	0.000266	1.000000

```

487 . matrix define mypchor123f=r(R)

488 . factormat mypchor123f, n(363) factors(8) blanks(.36)
      (obs=363)

```

```

Factor analysis/correlation
  Method: principal factors
  Rotation: (unrotated)
Number of obs   =   363
Retained factors =    8
Number of params =  180

```

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	4.55909	2.15462	0.2989	0.2989
Factor2	2.40447	0.28300	0.1576	0.4566
Factor3	2.12147	0.56638	0.1391	0.5957
Factor4	1.55509	0.38772	0.1020	0.6976
Factor5	1.16738	0.08912	0.0765	0.7742
Factor6	1.07825	0.23879	0.0707	0.8449
Factor7	0.83946	0.16556	0.0550	0.8999
Factor8	0.67390	0.13473	0.0442	0.9441
Factor9	0.53917	0.08407	0.0354	0.9794
Factor10	0.45510	0.12193	0.0298	1.0093
Factor11	0.33318	0.03442	0.0218	1.0311
Factor12	0.29876	0.10722	0.0196	1.0507
Factor13	0.19154	0.07642	0.0126	1.0633
Factor14	0.11511	0.04815	0.0075	1.0708
Factor15	0.06696	0.03310	0.0044	1.0752
Factor16	0.03386	0.03379	0.0022	1.0774
Factor17	0.00007	0.01123	0.0000	1.0774
Factor18	-0.01116	0.01950	-0.0007	1.0767
Factor19	-0.03066	0.03391	-0.0020	1.0747
Factor20	-0.06456	0.02764	-0.0042	1.0705
Factor21	-0.09220	0.02537	-0.0060	1.0644
Factor22	-0.11758	0.04731	-0.0077	1.0567
Factor23	-0.16488	0.03062	-0.0108	1.0459
Factor24	-0.19551	0.02073	-0.0128	1.0331
Factor25	-0.21624	0.07186	-0.0142	1.0189
Factor26	-0.28811	.	-0.0189	1.0000

LR test: independent vs. saturated: chi2(325) = 5426.41 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

>	Variable	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
	Factor7	Factor8	Uniqueness				
>							
>	trgovw1	0.3867				0.6242	
>			0.3338				
>	ecprw1	0.4792					
>			0.5487				
>	polprw1		-0.4775				0.4560
>			0.4300				
>	airw1		-0.4486				0.4924
>			0.4658				
>	radchw1	0.4357	-0.6285				
>			0.2875				
>	dauthw3						
>			0.8284				
>	healthef	0.5270	0.3721	0.3846	-0.6313		
>			0.0196				
>	HP2vacatn	0.5486		-0.5814			
>			0.2576				
>	shhousw1						
>			0.7738				
>	trrepw1	0.4023				0.5772	
>			0.3684				
>	childw1	0.4149					
>			0.7727				
>	radtlw1		-0.6344				
>			0.3691				
>	movew2						
>	0.5317		0.3535				
>	mhlthw2						
>			0.8332				
>	goferw1	0.6138					
>			0.3826				
>	goferw2	0.4451			0.3832		
>			0.4532				
>	fdferw1	0.6124					
>			0.3215				
>	fdferw2	0.4105			0.3723		
>			0.4301				
>	pillw3						
>	-0.3924		0.6613				
>	liqw2		0.3989				
>			0.7636				
>	WHPel	0.4182		-0.4533			
>			0.4419				
>	WHPpa	0.5054		-0.4272			

	radchw1			0.8103
>			0.2875	
	dauthw3			
>			0.8284	
	healthef		0.9791	
>			0.0196	
	HP2vacatn	0.8382		
>			0.2576	
	shhousw1			
>			0.7738	
	trrepw1			0.7571
>			0.3684	
	childw1			
>			0.7727	
	radtlw1			0.7608
>			0.3691	
	movew2			
>	0.7615		0.3535	
	mhlthw2			
>			0.8332	
	goferw1			0.6646
>			0.3826	
	goferw2			0.6351
>			0.4532	
	fdferw1			0.7676
>			0.3215	
	fdferw2			0.6789
>			0.4301	
	pillw3			
>	-0.5109		0.6613	
	liqw2			
>			0.7636	
	WHPel	0.6564		
>			0.4419	
	WHPpa	0.6719		
>			0.5082	
	HP2probsoc	0.9142		
>			0.0773	
	radchw3			0.7165
>			0.3841	
	Havmil			
>	0.6201		0.5190	
	carcin		0.9803	
>			0.0161	

> (blanks represent abs(loading)<.36)

Factor rotation matrix

		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6	Factor7	Factor8
>	Factor1	0.5604	0.4087	0.4950	0.3438	0.2663	0.2654	-0.11	
>	Factor2	0.2532	0.3725	0.1745	-0.7114	-0.4247	0.0395	0.24	
>	Factor3	-0.7490	0.3997	0.3421	0.1205	0.0565	0.2418	0.22	
>	Factor4	0.0295	-0.7116	0.5093	-0.2167	0.1588	0.3139	0.19	
>	Factor5	0.0629	0.0012	-0.4794	0.0351	-0.1356	0.8415	-0.09	
>	Factor6	0.0064	0.1661	-0.2729	-0.4249	0.8332	0.0149	0.15	
>	Factor7	0.2362	-0.0187	-0.2070	0.3613	-0.0094	-0.1557	0.75	
>	Factor8	-0.0160	-0.0148	-0.0286	0.0445	-0.0878	0.1960	0.48	

```
490 .
491 . di "{hline}"
```

```
492 .
493 .
494 . subtitle "Confirmatory Factor tracking across waves of most powerful 3 factors"
> rs"
```

```

                                Date and time: 26 Apr 2012   12:55:16
                                Stata version: 12.1
                                Operating system: MacOSX 10.6.8 on
> Macintosh (Intel 64-bit) with 4 processors
                                using 33554432 bytes of memory
                                Working directory: /Users/robertyaffee
> /Documents/data/research/chwk/phase3/data/ox
                                Stata data file: chwide22apr2012female
> s.dta
                                data file has 2196 variables
                                and 363 observations
```

Confirmatory Factor tracking across waves of most powerful 3 factors

```

495 . // factor 1 radw gofer fdferw healthef HP2probsoc
496 . // factor 2 radltw radchw
497 . // factor 3 ecprw polprw airw
498 . // factor 4 trgovw trrepw healthef
499 .
500 . factor trgovw1 ecprw1 polprw1 airw1 trgovw2 radw1 radtlw1 radchw1 ///
> ecprw2 polprw2 airw2 radw2 radtlw2 radchw2 ///
> trgovw3 ecprw3 polprw3 airw3 radw3 radtlw3 radchw3 dauthw3 healthef HP2
> vacatn ///
> shhousw1 trrepw1 trrepw2 trrepw3 dauthw1 dauthw2 dauthw3 childw1 illw2 ///
> inc4w1 deaw1 cataw3 movew2 mhlthw2 goferw1 goferw2 goferw3 fdferw1 fdferw
> 2 fdferw3 ///
> ncontw3 pillw1 pillw3 smokw1 smokw2 smokw3 liqw1 liqw2 liqw3 WHPel WHPpa
> HP2probsoc Havmil ///
> carcin, factors(6) blanks(.36)
(obs=266)
(collinear variables specified)

```

Factor analysis/correlation	Number of obs	=	266
Method: principal factors	Retained factors	=	6
Rotation: (unrotated)	Number of params	=	333

Factor	Eigenvalue	Difference	Proportion	Cumulative
Factor1	8.33052	4.46834	0.2151	0.2151
Factor2	3.86218	0.13166	0.0997	0.3148
Factor3	3.73052	0.37329	0.0963	0.4111
Factor4	3.35722	0.63870	0.0867	0.4977
Factor5	2.71853	0.50587	0.0702	0.5679
Factor6	2.21266	0.15161	0.0571	0.6250
Factor7	2.06105	0.25177	0.0532	0.6782
Factor8	1.80928	0.17737	0.0467	0.7249
Factor9	1.63191	0.21907	0.0421	0.7671
Factor10	1.41283	0.14936	0.0365	0.8035
Factor11	1.26347	0.23220	0.0326	0.8362
Factor12	1.03127	0.06170	0.0266	0.8628
Factor13	0.96957	0.12501	0.0250	0.8878
Factor14	0.84456	0.06063	0.0218	0.9096
Factor15	0.78393	0.12692	0.0202	0.9298
Factor16	0.65702	0.03999	0.0170	0.9468
Factor17	0.61702	0.10670	0.0159	0.9627
Factor18	0.51032	0.01126	0.0132	0.9759
Factor19	0.49906	0.04973	0.0129	0.9888
Factor20	0.44933	0.04181	0.0116	1.0004
Factor21	0.40752	0.03270	0.0105	1.0109
Factor22	0.37482	0.07731	0.0097	1.0206

Factor23	0.29751	0.04265	0.0077	1.0283
Factor24	0.25486	0.03003	0.0066	1.0349
Factor25	0.22484	0.01102	0.0058	1.0407
Factor26	0.21382	0.01207	0.0055	1.0462
Factor27	0.20175	0.05974	0.0052	1.0514
Factor28	0.14201	0.00865	0.0037	1.0551
Factor29	0.13337	0.03527	0.0034	1.0585
Factor30	0.09810	0.01536	0.0025	1.0610
Factor31	0.08273	0.04266	0.0021	1.0632
Factor32	0.04008	0.01694	0.0010	1.0642
Factor33	0.02313	0.00794	0.0006	1.0648
Factor34	0.01520	0.01520	0.0004	1.0652
Factor35	-0.00000	0.00067	-0.0000	1.0652
Factor36	-0.00067	0.00615	-0.0000	1.0652
Factor37	-0.00682	0.00690	-0.0002	1.0650
Factor38	-0.01372	0.01740	-0.0004	1.0646
Factor39	-0.03112	0.00172	-0.0008	1.0638
Factor40	-0.03283	0.01630	-0.0008	1.0630
Factor41	-0.04913	0.00625	-0.0013	1.0617
Factor42	-0.05538	0.01180	-0.0014	1.0603
Factor43	-0.06718	0.01804	-0.0017	1.0586
Factor44	-0.08522	0.01112	-0.0022	1.0564
Factor45	-0.09634	0.00626	-0.0025	1.0539
Factor46	-0.10260	0.00878	-0.0026	1.0512
Factor47	-0.11138	0.00993	-0.0029	1.0483
Factor48	-0.12131	0.00712	-0.0031	1.0452
Factor49	-0.12842	0.00556	-0.0033	1.0419
Factor50	-0.13399	0.01755	-0.0035	1.0384
Factor51	-0.15153	0.00776	-0.0039	1.0345
Factor52	-0.15929	0.00221	-0.0041	1.0304
Factor53	-0.16150	0.00167	-0.0042	1.0262
Factor54	-0.16317	0.01831	-0.0042	1.0220
Factor55	-0.18149	0.02896	-0.0047	1.0173
Factor56	-0.21045	0.01128	-0.0054	1.0119
Factor57	-0.22172	0.01809	-0.0057	1.0062
Factor58	-0.23981	.	-0.0062	1.0000

LR test: independent vs. saturated: chi2(1653)= . Prob>chi2 = .

Factor loadings (pattern matrix) and unique variances

Variable Uniqueness		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
>	trgovw1	0.4647					
>	0.5162						
>	ecprw1	0.6708			-0.4354		
>	0.3339						
>	polprw1	0.4735					
>	0.5601						
>	airw1	0.4140	-0.4029		-0.4408		
>	0.4180						
>	trgovw2	0.4319		-0.5659			
>	0.3175						
>	radw1				0.4132		
>	0.6147						
>	radtlw1	0.4961	-0.4841		0.3640		
>	0.3325						
>	radchw1	0.5018	-0.4221				
>	0.3900						
>	ecprw2	0.6010					
>	0.5138						
>	polprw2	0.5574					
>	0.5302						
>	airw2	0.6682			-0.3738		
>	0.3660						
>	radw2			0.3912			
>	0.5223						
>	radtlw2	0.6352			0.4174		
>	0.2043						
>	radchw2	0.6311			0.3981		
>	0.2254						
>	trgovw3			-0.5594			
>	0.4817						
>	ecprw3	0.6058					
>	0.5022						
>	polprw3	0.4206			-0.4093		
>	0.4912						
>	airw3	0.6466					
>	0.4253						
>	radw3			0.3980			
>	0.5060						
>	radtlw3	0.5972			0.4043		
>	0.2448						
>	radchw3	0.6180		0.3682	0.3690		
>	0.2289						
>	dauthw3			-0.4070		0.6786	

>	0.1752			
	healthef	0.4100		-0.4721
>	0.4289			
	HP2vacatn			
>	0.7919			
	shhousw1			
>	0.7669			
	trrepw1	0.4492		
>	0.5545			
	trrepw2	0.4582	-0.5426	
>	0.2629			
	trrepw3		-0.5054	
>	0.3889			
	dauthw1			
>	0.8421			
	dauthw2		-0.4104	0.5185
>	0.4122			
	dauthw3		-0.4070	0.6786
>	0.1752			
	childw1			
>	0.8218			
	illw2			
>	0.8054			
	inc4w1			
>	0.9366			
	deaw1	0.3846		
>	0.8413			
	cataw3			
>	0.8952			
	movew2			
>	0.9315			
	mhlthw2			
>	0.9054			
	goferw1	0.4970		
>	0.6189			
	goferw2	0.4035	0.4687	
>	0.4908			
	goferw3		0.4925	0.3711
>	0.4658			
	fdferw1	0.4694		
>	0.5557			
	fdferw2		0.5513	0.3839
>	0.3717			
	fdferw3		0.5670	0.3787
>	0.4088			
	ncontw3			
>	0.9049			
	pillw1			
>	0.8852			

```

> | pillw3 |
> | 0.9602 |
> | smokw1 |
> | 0.9538 |
> | smokw2 |
> | 0.8391 |
> | smokw3 |
> | 0.8788 |
> | liqw1 |
> | 0.7586 |
> | liqw2 |
> | 0.7450 |
> | liqw3 |
> | 0.9054 |
> | WHPel |
> | 0.7081 |
> | WHPpa |
> | 0.6802 |
> | HP2probsoc |
> | 0.6598 |
> | Havmil |
> | 0.9087 |
> | carcin | 0.4196 -0.4698
> | 0.4277 |
> |_____
> |_____

```

(blanks represent abs(loading)<.36)

```
501 . rotate, blanks(.36)
```

```

Factor analysis/correlation      Number of obs   =    266
Method: principal factors        Retained factors =     6
Rotation: orthogonal varimax (Kaiser off)  Number of params =   333

```

Factor	Variance	Difference	Proportion	Cumulative
Factor1	5.20649	0.04019	0.1344	0.1344
Factor2	5.16630	1.04889	0.1334	0.2678
Factor3	4.11740	0.48329	0.1063	0.3741
Factor4	3.63411	0.53399	0.0938	0.4679
Factor5	3.10012	0.11291	0.0800	0.5479
Factor6	2.98722	.	0.0771	0.6250

```
LR test: independent vs. saturated: chi2(1653)= . Prob>chi2 = .
```

Rotated factor loadings (pattern matrix) and unique variances

		Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Variable Uniqueness							
>	trgovw1			0.6358			
>	0.5162						
>	ecprw1	0.7600					
>	0.3339						
>	polprw1	0.5985					
>	0.5601						
>	airw1	0.7177					
>	0.4180						
>	trgovw2			0.7976			
>	0.3175						
>	radw1	-0.4028					
>	0.6147						
>	radtlw1		0.7391				
>	0.3325						
>	radchw1		0.7316				
>	0.3900						
>	ecprw2	0.6318					
>	0.5138						
>	polprw2	0.6309					
>	0.5302						
>	airw2	0.7433					
>	0.3660						
>	radw2	-0.3886				-0.3821	
>	0.5223						
>	radtlw2		0.8651				
>	0.2043						
>	radchw2		0.8619				
>	0.2254						
>	trgovw3			0.6870			
>	0.4817						
>	ecprw3	0.5752					
>	0.5022						
>	polprw3	0.6792					
>	0.4912						
>	airw3	0.7060					
>	0.4253						
>	radw3	-0.3954				-0.4149	
>	0.5060						
>	radtlw3		0.8503				
>	0.2448						
>	radchw3		0.8609				
>	0.2289						
>	dauthw3					0.8883	

>	0.1752		
	healthef		0.6310
>	0.4289		
	HP2vacatn		0.3779
>	0.7919		
	shhousw1		
>	0.7669		
	trrepw1	0.6066	
>	0.5545		
	trrepw2	0.8382	
>	0.2629		
	trrepw3	0.7672	
>	0.3889		
	dauthw1		
>	0.8421		
	dauthw2		0.7338
>	0.4122		
	dauthw3		0.8883
>	0.1752		
	childw1		
>	0.8218		
	illw2		
>	0.8054		
	inc4w1		
>	0.9366		
	deaw1		
>	0.8413		
	cataw3		
>	0.8952		
	movew2		
>	0.9315		
	mhlthw2		
>	0.9054		
	goferw1	0.3802	
>	0.6189		
	goferw2	0.6647	
>	0.4908		
	goferw3	0.7288	
>	0.4658		
	fdferw1	0.5468	
>	0.5557		
	fdferw2	0.7699	
>	0.3717		
	fdferw3	0.7597	
>	0.4088		
	ncontw3		
>	0.9049		
	pillw1		
>	0.8852		

```

> | pillw3 |
> | 0.9602 |
> | smokw1 |
> | 0.9538 |
> | smokw2 |
> | 0.8391 |
> | smokw3 |
> | 0.8788 |
> | liqw1 | 0.4548
> | 0.7586 |
> | liqw2 | 0.3906
> | 0.7450 |
> | liqw3 |
> | 0.9054 |
> | WHPel | 0.4398
> | 0.7081 |
> | WHPpa | 0.4616
> | 0.6802 |
> | HP2probsoc | 0.5038
> | 0.6598 |
> | Havmil |
> | 0.9087 |
> | carcin | 0.6248
> | 0.4277 |
> |_____
> |_____

```

(blanks represent abs(loading)<.36)

Factor rotation matrix

	Factor1	Factor2	Factor3	Factor4	Factor5	Factor6
Factor1	0.6079	0.5780	0.3734	0.2755	0.1469	0.2440
Factor2	-0.2700	-0.4261	0.3693	0.6602	-0.0663	0.4111
Factor3	-0.1653	0.4232	-0.6317	0.3698	-0.4523	0.2308
Factor4	-0.7062	0.5403	0.2984	0.0436	0.2825	-0.1963
Factor5	0.0358	-0.0954	-0.4855	0.2367	0.8276	0.1141
Factor6	0.1738	-0.0654	-0.0206	0.5418	-0.0695	-0.8165

```

502 .
503 . save chwide22apr2012females, replace
file chwide22apr2012females.dta saved

```