Appendix F

Factor Analysis Results

Factor Analysis Output

. factor $myxvars, factor(5) blank(.3)

(obs=105)

Factor analysis/correlation Number of obs = 105

 Method: principal factors Retained factors = 5

 Rotation: (unrotated) Number of params = 150

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 Factor | Eigenvalue Difference Proportion Cumulative

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 Factor1 | 14.20581 12.35857 0.6074 0.6074

 Factor2 | 1.84724 0.24025 0.0790 0.6864

 Factor3 | 1.60698 0.31597 0.0687 0.7551

 Factor4 | 1.29102 0.31218 0.0552 0.8103

 Factor5 | 0.97884 0.11143 0.0419 0.8522

 Factor6 | 0.86741 0.15184 0.0371 0.8893

 Factor7 | 0.71557 0.10343 0.0306 0.9199

 Factor8 | 0.61214 0.13193 0.0262 0.9461

 Factor9 | 0.48021 0.04433 0.0205 0.9666

 Factor10 | 0.43589 0.10860 0.0186 0.9852

 Factor11 | 0.32729 0.06054 0.0140 0.9992

 Factor12 | 0.26674 0.03747 0.0114 1.0106

 Factor13 | 0.22927 0.04929 0.0098 1.0204

 Factor14 | 0.17998 0.01328 0.0077 1.0281

 Factor15 | 0.16670 0.02476 0.0071 1.0353

 Factor16 | 0.14194 0.06008 0.0061 1.0413

 Factor17 | 0.08186 0.02827 0.0035 1.0448

 Factor18 | 0.05359 0.02023 0.0023 1.0471

 Factor19 | 0.03336 0.00347 0.0014 1.0485

 Factor20 | 0.02989 0.02528 0.0013 1.0498

 Factor21 | 0.00460 0.01639 0.0002 1.0500

 Factor22 | -0.01179 0.03237 -0.0005 1.0495

 Factor23 | -0.04416 0.01922 -0.0019 1.0476

 Factor24 | -0.06338 0.01441 -0.0027 1.0449

 Factor25 | -0.07779 0.02129 -0.0033 1.0416

 Factor26 | -0.09908 0.01169 -0.0042 1.0374

 Factor27 | -0.11076 0.00979 -0.0047 1.0326

 Factor28 | -0.12056 0.00559 -0.0052 1.0275

 Factor29 | -0.12615 0.02583 -0.0054 1.0221

 Factor30 | -0.15198 0.02522 -0.0065 1.0156

 Factor31 | -0.17720 0.00973 -0.0076 1.0080

 Factor32 | -0.18693 . -0.0080 1.0000

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 LR test: independent vs. saturated: chi2(496) = 2708.64 Prob>chi2 = 0.0000

Factor loadings (pattern matrix) and unique variances

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 Variable | Factor1 Factor2 Factor3 Factor4 Factor5 | Uniqueness

 -------------+--------------------------------------------------+--------------

 num\_aPurpose | 0.5973 | 0.6140

 num\_bBenef~s | 0.7788 | 0.2775

 num\_cFinan~s | 0.6147 | 0.4497

 num\_dNegat~s | 0.5472 -0.3190 -0.3782 | 0.3793

 num\_aInfor~d | 0.8029 | 0.2739

 num\_bCould~e | 0.7613 | 0.2689

 num\_cWhen\_~e | 0.8033 | 0.2399

 num\_dRefle~t | 0.6461 -0.3378 | 0.3714

 num\_eCl~sons | 0.5842 | 0.4667

 num\_fRange | 0.7674 | 0.3033

 num\_aClear~e | 0.7253 | 0.4443

 num\_bClear~d | 0.7620 | 0.3213

 num\_cProgr~s | 0.6500 | 0.4934

 num\_dWilling | 0.7061 | 0.3132

 num\_eCl~ions | 0.7688 | 0.3377

 num\_fIncre~t | 0.7798 -0.3424 | 0.2140

 num\_gSuffi~o | 0.8120 | 0.2181

 num\_hUnder~e | 0.7362 | 0.3545

 num\_aInput | 0.5765 0.5849 | 0.2926

 num\_bNotif~n | 0.5792 0.3178 | 0.5348

 num\_cIn\_Ad~e | 0.6606 0.3554 | 0.3113

 num\_dUnder~d | 0.6360 0.5581 | 0.2093

 num\_eAsk | 0.6953 0.3537 | 0.3480

 num\_aEncou~d | 0.6310 0.4581 | 0.3819

 num\_bInter~g | 0.7071 0.3890 | 0.2911

 num\_cInfor~e | 0.8228 | 0.1702

 num\_aActiv~s | 0.5546 0.5012 | 0.3630

 num\_cMater~s | 0.3247 | 0.7308

 num\_dTrans~e | 0.4237 0.4271 0.4492 | 0.4110

 num\_bDiffe~s | 0.4414 0.3602 | 0.5683

 num\_dNot\_I~n | 0.3815 0.4227 | 0.6300

 num\_Satisf~d | 0.6479 | 0.4869

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 (blanks represent abs(loading)<.3)

. rotate, varimax blank (.3)

Factor analysis/correlation Number of obs = 105

 Method: principal factors Retained factors = 5

 Rotation: orthogonal varimax (Kaiser off) Number of params = 150

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 Factor | Variance Difference Proportion Cumulative

 -------------+------------------------------------------------------------

 Factor1 | 7.14581 2.50825 0.3056 0.3056

 Factor2 | 4.63755 0.60040 0.1983 0.5039

 Factor3 | 4.03715 1.83847 0.1726 0.6765

 Factor4 | 2.19868 0.28798 0.0940 0.7705

 Factor5 | 1.91070 . 0.0817 0.8522

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 LR test: independent vs. saturated: chi2(496) = 2708.64 Prob>chi2 = 0.0000

Rotated factor loadings (pattern matrix) and unique variances

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 Variable | Factor1 Factor2 Factor3 Factor4 Factor5 | Uniqueness

 -------------+--------------------------------------------------+--------------

 num\_aPurpose | 0.4643 0.3036 | 0.6140

 num\_bBenef~s | 0.5528 0.3272 0.4859 | 0.2775

 num\_cFinan~s | 0.3299 0.3863 0.4833 | 0.4497

 num\_dNegat~s | 0.4315 0.6022 | 0.3793

 num\_aInfor~d | 0.6745 0.4744 | 0.2739

 num\_bCould~e | 0.4514 0.6823 | 0.2689

 num\_cWhen\_~e | 0.7264 0.3799 | 0.2399

 num\_dRefle~t | 0.7082 | 0.3714

 num\_eCl~sons | 0.6082 | 0.4667

 num\_fRange | 0.4004 0.6639 | 0.3033

 num\_aClear~e | 0.5838 0.3621 | 0.4443

 num\_bClear~d | 0.4746 0.5311 0.3765 | 0.3213

 num\_cProgr~s | 0.3706 0.4112 0.3916 | 0.4934

 num\_dWilling | 0.7188 0.3504 | 0.3132

 num\_eCl~ions | 0.4907 0.5941 | 0.3377

 num\_fIncre~t | 0.6569 0.5771 | 0.2140

 num\_gSuffi~o | 0.6351 0.4246 0.4135 | 0.2181

 num\_hUnder~e | 0.6241 0.3474 | 0.3545

 num\_aInput | 0.7900 | 0.2926

 num\_bNotif~n | 0.5446 | 0.5348

 num\_cIn\_Ad~e | 0.3280 0.7002 | 0.3113

 num\_dUnder~d | 0.8330 | 0.2093

 num\_eAsk | 0.3425 0.5991 | 0.3480

 num\_aEncou~d | 0.5549 0.4754 | 0.3819

 num\_bInter~g | 0.7612 | 0.2911

 num\_cInfor~e | 0.8087 0.3275 | 0.1702

 num\_aActiv~s | 0.3843 0.6671 | 0.3630

 num\_cMater~s | 0.3762 | 0.7308

 num\_dTrans~e | 0.7162 | 0.4110

 num\_bDiffe~s | 0.3908 0.4295 | 0.5683

 num\_dNot\_I~n | 0.3528 0.3131 | 0.6300

 num\_Satisf~d | 0.5873 | 0.4869

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 (blanks represent abs(loading)<.3)

Factor rotation matrix

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 | Factor1 Factor2 Factor3 Factor4 Factor5

 -------------+---------------------------------------------

 Factor1 | 0.6660 0.5022 0.4312 0.2538 0.2319

 Factor2 | -0.4756 -0.1594 0.8107 0.2828 -0.1058

 Factor3 | 0.3664 -0.5156 -0.1657 0.6668 -0.3574

 Factor4 | -0.2430 0.6542 -0.1844 0.2471 -0.6464

 Factor5 | -0.3700 0.1687 -0.3088 0.5915 0.6240

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. rotate,clear

. rotate, promax blank (.3)

Factor analysis/correlation Number of obs = 105

 Method: principal factors Retained factors = 5

 Rotation: oblique promax (Kaiser off) Number of params = 150

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 Factor | Variance Proportion Rotated factors are correlated

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 Factor1 | 10.97550 0.4693

 Factor2 | 9.81851 0.4198

 Factor3 | 7.91702 0.3385

 Factor4 | 6.12092 0.2617

 Factor5 | 3.62904 0.1552

 --------------------------------------------------------------------------

 LR test: independent vs. saturated: chi2(496) = 2708.64 Prob>chi2 = 0.0000

Rotated factor loadings (pattern matrix) and unique variances

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 Variable | Factor1 Factor2 Factor3 Factor4 Factor5 | Uniqueness

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 num\_aPurpose | 0.3868 | 0.6140

 num\_bBenef~s | 0.4063 0.4517 | 0.2775

 num\_cFinan~s | 0.4860 | 0.4497

 num\_dNegat~s | 0.4102 0.6263 | 0.3793

 num\_aInfor~d | 0.6094 0.4104 | 0.2739

 num\_bCould~e | 0.7159 | 0.2689

 num\_cWhen\_~e | 0.7051 | 0.2399

 num\_dRefle~t | 0.7737 | 0.3714

 num\_eCl~sons | 0.6441 | 0.4667

 num\_fRange | 0.6718 | 0.3033

 num\_aClear~e | 0.5073 | 0.4443

 num\_bClear~d | 0.3339 0.4791 | 0.3213

 num\_cProgr~s | 0.3574 0.3620 | 0.4934

 num\_dWilling | 0.7025 | 0.3132

 num\_eCl~ions | 0.3378 0.5811 | 0.3377

 num\_fIncre~t | 0.5983 0.5739 | 0.2140

 num\_gSuffi~o | 0.5119 0.3383 0.3543 | 0.2181

 num\_hUnder~e | 0.5318 | 0.3545

 num\_aInput | 0.8546 | 0.2926

 num\_bNotif~n | 0.5179 | 0.5348

 num\_cIn\_Ad~e | 0.7298 | 0.3113

 num\_dUnder~d | 0.9099 | 0.2093

 num\_eAsk | 0.5539 | 0.3480

 num\_aEncou~d | 0.4967 0.4429 | 0.3819

 num\_bInter~g | 0.7888 | 0.2911

 num\_cInfor~e | 0.8058 | 0.1702

 num\_aActiv~s | 0.7089 | 0.3630

 num\_cMater~s | 0.3699 | 0.7308

 num\_dTrans~e | 0.8182 | 0.4110

 num\_bDiffe~s | 0.3709 0.4065 | 0.5683

 num\_dNot\_I~n | 0.3561 -0.3417 | 0.6300

 num\_Satisf~d | 0.5277 | 0.4869

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 (blanks represent abs(loading)<.3)

Factor rotation matrix

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 | Factor1 Factor2 Factor3 Factor4 Factor5

 -------------+---------------------------------------------

 Factor1 | 0.8635 0.8109 0.7038 0.6054 0.4276

 Factor2 | -0.3033 -0.0363 0.6640 0.3109 -0.1547

 Factor3 | 0.2734 -0.3399 -0.0665 0.5604 -0.3713

 Factor4 | -0.1620 0.4670 -0.0304 0.2053 -0.6309

 Factor5 | -0.2479 0.0866 -0.2417 0.4251 0.5073

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