

APPENDIX TABLE OF CONTENTS

| | Page |
|--|-------------|
| 1. Table of Contents..... | i |
| 2.VDCU Loan Assessment Form..... | ii |
| 3. Appendix Tables | |
| A. Appendix Table A.1: Travel/Commuter Data-Center for Rural Studies..... | iii |
| B. Appendix Table A.2: Variable Correlations..... | iv |
| C. Appendix Table A.3: Summary Table of Allocation Models..... | vi |

Appendix Table A.1: Travel/Commuter Data- Center for Rural Studies

| | | |
|---|-------------------|--|
| Vehicle Miles Traveled (Millions), 1999 | 6,867 | |
| Aggregate Travel Time to Work, 1990 | 4,688,636 minutes | |
| Mean Travel Time to Work, Workers 16 years + who did not work at home, 1990 | 18.02 minutes | |
| Mean Travel Time to Work, 1980 | 17.3 minutes | |
| Means of Transport to work: Public transportation-Bus or Trolley Bus, 1990 | 1,522 | |
| Means of Transport to work: Public transportation-Subway or elevated, 1990 | 96 | |
| Means of Transport to work: Public transportation-Railroad, 1990 | 35 | |
| Means of Transport to work: Public transportation-Ferryboat, 1990 | 9 | |
| Means of Transport to work: Public transportation-Taxicab, 1990 | 371 | Total persons using public transportation, 1990 = 2033 |
| Means of Transport to work: Motorcycle, 1990 | 277 | |
| Means of Transport to work: Bicycle, 1990 | 1,054 | |
| Means of Transport to work: Walked, 1990 | 19,001 | |
| Means of Transport to work: Car, truck, or van- Drove Alone, 1990 | 199,808 | |
| Means of Transport to work: Car, truck, or van- Carpooled, 1990 | 35,731 | |
| Means of Transport to work: Other Means, 1990 | 2,351 | Total persons using private transportation, 1990 = 258,222 |
| Worked at home, 1990 | 16,510 | Percent of employed persons working at home = 5.9 |

Source: Center for Rural Studies, U.S. Department of Commerce, Censuses of Pop. & Housing / Federal Highway Administration (FHWA). www.uvm.edu/indicators

Appendix Table A.2: Variable Correlations

| | qual | single | coapp | lowinc~e | credit~e | c2score | |
|--------------|---------|----------|---------|----------|----------|----------|---|
| havenone | | | | | | | |
| ----- | | | | | | | |
| qual | 1.0000 | | | | | | |
| single | -0.2156 | 1.0000 | | | | | |
| coapp | 0.2156 | -1.0000 | 1.0000 | | | | |
| lowincome | 0.2454 | 0.0227 | -0.0227 | 1.0000 | | | |
| creditscore | 0.3685 | -0.1307 | 0.1307 | 0.1132 | 1.0000 | | |
| c2score | 0.2018 | -0.2089 | 0.2089 | -0.0669 | 1.0000 | 1.0000 | |
| havenone | -0.1421 | 0.1894 | -0.1894 | 0.0907 | . | -0.9817 | |
| 1.0000 | | | | | | | |
| prevapp | 0.4254 | -0.2551 | 0.2551 | 0.0411 | 0.0762 | 0.1131 | - |
| 0.1016 | | | | | | | |
| barriers | -0.2564 | 0.0420 | -0.0420 | 0.1493 | -0.1825 | -0.0410 | |
| 0.0102 | | | | | | | |
| delinq | -0.2036 | -0.0657 | 0.0657 | -0.1385 | -0.4695 | 0.2006 | - |
| 0.2781 | | | | | | | |
| income | -0.1119 | 0.1077 | -0.1077 | -0.0173 | 0.0962 | -0.0771 | |
| 0.0939 | | | | | | | |
| jobhist | 0.0491 | -0.0592 | 0.0592 | 0.1946 | -0.0302 | 0.1027 | - |
| 0.1099 | | | | | | | |
| meddebts | -0.0881 | 0.1564 | -0.1564 | 0.1627 | -0.1520 | 0.0364 | - |
| 0.0646 | | | | | | | |
| insuffcredit | -0.1176 | -0.1072 | 0.1072 | 0.1204 | 0.1928 | -0.3040 | |
| 0.3379 | | | | | | | |
| taxliens | -0.0762 | 0.0537 | -0.0537 | 0.0557 | -0.0252 | 0.0434 | - |
| 0.0492 | | | | | | | |
| oth | 0.0515 | -0.0270 | 0.0270 | -0.0935 | -0.1587 | -0.0078 | - |
| 0.0196 | | | | | | | |
| compensating | 0.6087 | -0.1746 | 0.1746 | 0.1096 | 0.4963 | 0.1384 | - |
| 0.0572 | | | | | | | |
| goodmortgage | 0.4915 | -0.2171 | 0.2171 | 0.2136 | 0.4325 | 0.1746 | - |
| 0.1024 | | | | | | | |
| goodnontrad | 0.3352 | -0.0354 | 0.0354 | 0.0046 | 0.1304 | 0.0928 | - |
| 0.0716 | | | | | | | |
| lowunsecdebt | 0.1444 | -0.0264 | 0.0264 | 0.0668 | 0.2277 | -0.1280 | |
| 0.1659 | | | | | | | |
| poscredith~t | 0.3519 | -0.1215 | 0.1215 | 0.0135 | 0.3938 | 0.1828 | - |
| 0.1151 | | | | | | | |
| posvdcuhist | 0.3548 | -0.0975 | 0.0975 | 0.2123 | 0.0449 | 0.1916 | - |
| 0.1866 | | | | | | | |
| stableempl~t | 0.1115 | 0.0149 | -0.0149 | -0.2422 | -0.0169 | -0.0783 | |
| 0.0769 | | | | | | | |
| stableres | 0.0700 | 0.1310 | -0.1310 | -0.0137 | 0.1700 | 0.1355 | - |
| 0.1097 | | | | | | | |
| vdcupriority | -0.1938 | 0.0372 | -0.0372 | -0.0450 | 0.0534 | 0.0729 | - |
| 0.0656 | | | | | | | |
| hitoryofhi~i | 0.2178 | 0.1087 | -0.1087 | 0.0792 | 0.3245 | -0.1929 | |
| 0.2284 | | | | | | | |
| other | 0.3134 | -0.3696 | 0.3696 | 0.1515 | 0.2670 | 0.1108 | - |
| 0.0646 | | | | | | | |
| | prevapp | barriers | delinq | income | jobhist | meddebts | |
| insuff~t | | | | | | | |
| ----- | | | | | | | |
| prevapp | 1.0000 | | | | | | |
| barriers | -0.1840 | 1.0000 | | | | | |
| delinq | -0.0639 | 0.2999 | 1.0000 | | | | |
| income | -0.0443 | 0.2664 | -0.1890 | 1.0000 | | | |
| jobhist | -0.0911 | 0.5803 | 0.1171 | -0.1135 | 1.0000 | | |

| | | | | | | | |
|--------------|----------|----------|----------|----------|----------|----------|---|
| meddebts | -0.1231 | 0.3676 | 0.1730 | -0.0983 | 0.1379 | 1.0000 | |
| insuffcredit | 0.0906 | 0.1677 | -0.3039 | -0.0899 | 0.0527 | -0.1465 | |
| 1.0000 | | | | | | | |
| taxliens | -0.0423 | 0.1388 | 0.0594 | -0.0337 | -0.0548 | 0.3433 | - |
| 0.0503 | | | | | | | |
| oth | 0.0940 | 0.1905 | -0.1292 | 0.1619 | 0.0884 | 0.0422 | - |
| 0.0952 | | | | | | | |
| compensating | 0.3492 | -0.2988 | -0.2140 | -0.1089 | -0.0889 | -0.2112 | |
| 0.0432 | | | | | | | |
| goodmortgage | 0.1564 | -0.1021 | -0.0336 | -0.1361 | 0.1230 | -0.0292 | |
| 0.0115 | | | | | | | |
| goodnontrad | 0.1449 | -0.1608 | 0.0098 | -0.1208 | -0.0666 | -0.0467 | - |
| 0.0802 | | | | | | | |
| lowunsecdebt | 0.1265 | 0.0688 | -0.1735 | -0.1031 | 0.2617 | -0.1197 | |
| 0.3079 | | | | | | | |
| poscredith~t | 0.2869 | -0.2122 | -0.3805 | 0.1972 | 0.0089 | -0.1092 | - |
| 0.1216 | | | | | | | |
| posvdcuhist | 0.3226 | -0.2106 | 0.1678 | -0.1281 | -0.1485 | -0.0907 | - |
| 0.1286 | | | | | | | |
| stableempl~t | 0.1660 | -0.2101 | -0.0067 | -0.0759 | -0.2685 | -0.0247 | |
| 0.0637 | | | | | | | |
| stableres | 0.1500 | -0.1988 | -0.0125 | -0.1054 | -0.1168 | -0.1632 | |
| 0.0271 | | | | | | | |
| vdcupriority | 0.0914 | 0.0631 | 0.1205 | 0.0473 | 0.0291 | -0.1238 | |
| 0.1909 | | | | | | | |
| hitoryofhi~i | -0.0856 | 0.0254 | -0.1796 | 0.2118 | -0.0076 | -0.0484 | |
| 0.0061 | | | | | | | |
| other | 0.3070 | 0.0733 | 0.1011 | -0.0983 | 0.1379 | -0.0696 | |
| 0.1642 | | | | | | | |
| | taxliens | oth | compen~g | goodmo~e | goodno~d | lowuns~t | |
| poscre~t | | | | | | | |
| taxliens | 1.0000 | | | | | | |
| oth | -0.0269 | 1.0000 | | | | | |
| compensating | -0.0578 | -0.1513 | 1.0000 | | | | |
| goodmortgage | -0.0594 | -0.1303 | 0.6398 | 1.0000 | | | |
| goodnontrad | -0.0446 | 0.0037 | 0.5378 | 0.4375 | 1.0000 | | |
| lowunsecdebt | -0.0411 | -0.1350 | 0.3414 | 0.2206 | -0.0598 | 1.0000 | |
| poscredith~t | -0.0375 | 0.2135 | 0.3925 | 0.2300 | 0.1444 | 0.1178 | |
| 1.0000 | | | | | | | |
| posvdcuhist | -0.0311 | -0.1023 | 0.3297 | 0.1205 | 0.0309 | -0.1560 | |
| 0.0821 | | | | | | | |
| stableempl~t | 0.1407 | -0.1260 | 0.4011 | 0.0456 | 0.2694 | 0.0405 | - |
| 0.1652 | | | | | | | |
| stableres | -0.1280 | -0.1683 | 0.4739 | 0.1630 | 0.1741 | 0.0458 | |
| 0.1952 | | | | | | | |
| vdcupriority | 0.0311 | -0.0913 | 0.2023 | 0.2255 | 0.1693 | 0.1560 | - |
| 0.0073 | | | | | | | |
| hitoryofhi~i | -0.0166 | -0.0545 | 0.1804 | 0.1796 | 0.0254 | -0.0832 | |
| 0.1834 | | | | | | | |
| other | -0.0239 | -0.0785 | 0.2382 | 0.2583 | 0.1197 | 0.2308 | |
| 0.1706 | | | | | | | |
| | posvdc~t | stable~t | stable~s | vdcupr~y | hitory~i | other | |
| posvdcuhist | 1.0000 | | | | | | |
| stableempl~t | 0.1276 | 1.0000 | | | | | |

| | | | | | | |
|--------------|---------|---------|---------|---------|---------|--------|
| stableres | 0.1870 | 0.1895 | 1.0000 | | | |
| vdcupriority | 0.0322 | 0.1630 | 0.2618 | 1.0000 | | |
| hitoryofhi~i | -0.0630 | -0.0172 | 0.1296 | -0.0861 | 1.0000 | |
| other | 0.2310 | -0.1697 | -0.0933 | -0.0166 | -0.0484 | 1.0000 |

Appendix Table A.3: Summary of Models

| | Stage A _B | Stage B _B | Stage A _{CF} | Stage B _{CF} | Complete |
|---|-------------------------------|------------------------------|-----------------------------|----------------------------|------------------------------|
| Personal & Historical | | | | | |
| Single | -0.47 [-0.18] (0.16) | -0.44 [-0.17] (0.21) | -0.29 [-0.11] (0.45) | -0.29 [-0.11] (0.48) | -0.41 [-.15] (0.32) |
| Low-income | 1.11** [0.42] (0.00) | 0.89** [0.33] (0.02) | 1.08**[0.40](0.01) | 1.16**[0.43](0.01) | 0.95** [0.35] (0.04) |
| Previous Application | 1.72** [0.65] (0.00) | 1.85** [0.70] (0.00) | 1.54**[0.56](0.00) | 1.86**[0.69](0.00) | 2.12* [0.79] (0.00) |
| Barriers | | | | | |
| Number of Barriers ¹ | -0.32* [-0.12] (0.06) | | | | |
| Delinquencies | | -0.66 [-0.25] (0.10) | | | -0.67 [-0.25] (0.15) |
| Job History | | 0.26 [0.10] (0.43) | | | 0.12 [0.05] (0.76) |
| Compensating Factors | | | | | |
| Number of Compensating Factors ² | | | 0.58** [0.21] (0.00) | | |
| Good Mortgage | | | | 0.59 [0.22] (0.18) | -10.34* [-3.88] (0.08) |
| Good Non-Traditional | | | | 1.04** [0.39] (0.02) | 1.68** [0.63] (0.00) |
| Low unsecured Debt | | | | 0.36 [0.13](0.45) | |
| Stable Residence | | | | -0.71*[-0.26](0.07) | -0.48 [-0.18] (0.23) |
| Stable Employment | | | | 0.56[0.21](0.16) | |
| Credit Scores | | | | | |
| Has No Credit Score | 3.83** [1.44] (0.04) | 2.92 [1.10] (0.17) | 0.67 [0.25] (0.19) | 3.81* [1.40] (0.07) | -1.06 [-0.40] (0.72) |
| Credit Score | 0.009** [0.003] (0.006) | 0.008** [0.003] (0.03) | 0.004* [0.001] (0.06) | 0.009** [0.003](0.01) | 0.001 [0.0003] (0.86) |
| Interaction Terms | | | | | |
| Good Mortgage and Credit Score | | | | | 0.02* [0.007] (0.06) |
| Good Mortgage and Has No Credit Score | | | | | 11.50* [4.31] (0.05) |
| Constant | | | | | |
| Constant | -5.34** [-2.02] (0.01) | -4.69** [-1.77] (0.04) | -4.85**[-1.79](0.02) | -6.49**[-2.39](0.01) | -1.18 [-0.44] (0.70) |
| χ^2 Likelihood Ratio Test | $\chi^2_6=62.10$ | $\chi^2_7= 61.49$ | $\chi^2_6=82.22$ | $\chi^2_{10}= 77.68$ | $\chi^2_{12}=81.78$ |
| Pseudo R ² | .3960 | .3921 | .5243 | .4954 | .5215 |

¹ Variable “Number of Barriers” is not included in the complete model to allow this model to capture individual barrier category effects.

² Variable “Number of Compensating Factors” is not included in the complete model to allow this model to capture individual compensating factor category effects.

| | | | | | |
|-----------------------|--------|--------|--------|--------|--------|
| <i>Log Likelihood</i> | -47.36 | -47.66 | -37.29 | -39.56 | -37.51 |
|-----------------------|--------|--------|--------|--------|--------|
