

มหาวิทยาลัยเชียงใหม่
Chiang Mai University

ภาคผนวก

ภาคผนวก ก
อัตราส่วนทางการเงิน

มหาวิทยาลัยเชียงใหม่
Chiang Mai University

| no. | Y | LD | LP | IL | DA | EA | GP | RO | RP | PB | PM | DE |
|-----|------|--------|-------|------|-------|-------|-------|-------|------|--------|------|-------|
| 1 | 1.00 | 103.14 | 1.34 | .39 | 76.98 | 5.14 | 90.54 | 9.46 | .12 | 93.14 | 1.59 | 18.47 |
| 2 | 1.00 | 76.92 | .55 | 2.06 | 82.58 | 3.92 | 90.94 | 9.06 | .05 | 45.70 | 1.08 | 24.50 |
| 3 | 1.00 | 88.51 | .87 | 1.32 | 81.66 | 6.23 | 90.98 | 9.02 | .07 | 47.43 | 1.16 | 15.05 |
| 4 | 1.00 | 88.42 | .86 | 1.88 | 81.33 | 5.11 | 88.88 | 11.12 | .07 | 45.55 | 1.24 | 18.59 |
| 5 | 1.00 | 104.67 | .34 | 1.13 | 75.44 | 7.24 | 91.50 | 8.50 | .03 | 36.85 | 1.14 | 12.81 |
| 6 | 1.00 | 87.67 | .31 | 3.01 | 81.53 | 5.27 | 90.10 | 9.90 | .03 | 37.87 | 1.05 | 17.98 |
| 7 | 1.00 | 115.17 | .21 | .65 | 61.19 | 8.48 | 91.86 | 8.14 | .02 | 69.81 | 1.62 | 10.80 |
| 8 | 1.00 | 102.91 | .29 | 2.63 | 70.25 | 6.51 | 93.67 | 6.33 | .03 | 33.31 | .96 | 14.36 |
| 9 | 1.00 | 84.90 | .11 | 3.27 | 84.78 | 4.36 | 91.91 | 8.09 | .01 | 22.36 | .78 | 21.94 |
| 10 | 1.00 | 103.23 | .27 | 3.54 | 71.80 | 5.49 | 87.08 | 12.92 | .02 | 33.28 | .97 | 17.20 |
| 11 | 1.00 | 111.21 | .21 | 3.42 | 67.11 | 6.38 | 87.22 | 12.78 | .02 | 57.94 | 1.20 | 14.68 |
| 12 | 1.00 | 100.54 | .43 | .53 | 80.13 | 6.39 | 95.29 | 4.71 | .04 | 41.07 | 1.01 | 14.65 |
| 13 | 1.00 | 91.86 | .16 | 1.84 | 76.88 | 6.00 | 92.41 | 7.59 | .01 | 19.84 | .69 | 15.66 |
| 14 | 1.00 | 93.58 | .47 | .66 | 77.12 | 5.02 | 88.53 | 11.47 | .04 | 35.92 | 1.23 | 18.94 |
| 15 | 1.00 | 110.53 | 12.23 | 1.93 | 72.28 | 14.29 | 86.52 | 13.48 | 1.18 | 40.80 | 1.11 | 6.00 |
| 16 | 1.00 | 102.76 | 1.09 | .35 | 78.92 | 4.61 | 90.22 | 9.78 | .09 | 122.33 | 2.02 | 20.68 |
| 17 | 1.00 | 79.83 | .47 | 1.64 | 85.06 | 4.43 | 93.74 | 6.26 | .04 | 60.00 | 1.41 | 21.56 |
| 18 | 1.00 | 93.96 | .70 | 1.19 | 82.51 | 5.41 | 90.95 | 9.05 | .05 | 64.39 | 1.55 | 17.49 |
| 19 | 1.00 | 86.75 | .38 | 1.63 | 81.21 | 5.82 | 88.57 | 11.43 | .03 | 63.55 | 1.64 | 16.19 |
| 20 | 1.00 | 100.01 | .34 | .91 | 81.15 | 7.53 | 93.09 | 6.91 | .03 | 49.78 | 1.53 | 12.28 |
| 21 | 1.00 | 95.67 | .44 | 1.92 | 81.65 | 6.86 | 90.49 | 89.51 | .03 | 52.91 | 1.42 | 13.57 |
| 22 | 1.00 | 125.53 | .25 | .72 | 61.57 | 9.21 | 91.72 | 8.28 | .02 | 94.60 | 2.15 | 9.86 |
| 23 | 1.00 | 100.99 | .28 | 2.31 | 72.09 | 5.83 | 93.09 | 6.91 | .02 | 46.54 | 1.30 | 16.16 |
| 24 | 1.00 | 94.41 | .15 | 2.87 | 82.33 | 4.92 | 91.50 | 8.50 | .01 | 28.96 | .97 | 19.33 |
| 25 | 1.00 | 102.54 | .30 | 2.72 | 72.56 | 5.30 | 85.70 | 14.30 | .02 | 42.75 | 1.26 | 17.85 |
| 26 | 1.00 | 106.74 | 1.29 | 3.05 | 72.02 | 5.39 | 88.12 | 11.88 | .10 | 72.71 | 1.60 | 17.56 |
| 27 | 1.00 | 100.77 | .34 | .61 | 82.86 | 6.39 | 95.53 | 4.47 | .03 | 54.27 | 1.25 | 14.66 |
| 28 | 1.00 | 98.34 | .22 | 1.71 | 77.41 | 6.19 | 90.80 | 9.20 | .02 | 26.00 | .87 | 15.16 |
| 29 | 1.00 | 93.68 | .34 | .64 | 80.56 | 4.81 | 89.44 | 10.56 | .03 | 50.62 | 1.61 | 19.78 |

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|----|------|--------|------|------|-------|-------|-------|-------|-----|--------|------|-------|
| 30 | 1.00 | 109.96 | .12 | 2.12 | 74.99 | 13.13 | 83.82 | 16.18 | .01 | 47.18 | 1.28 | 6.61 |
| 31 | 1.00 | 107.29 | 1.33 | .50 | 76.80 | 5.16 | 90.10 | 9.90 | .09 | 169.80 | 2.69 | 18.39 |
| 32 | 1.00 | 92.84 | .51 | 1.96 | 84.28 | 4.83 | 92.78 | 7.22 | .04 | 73.16 | 1.86 | 19.71 |
| 33 | 1.00 | 102.14 | .44 | 1.24 | 80.26 | 6.18 | 92.82 | 7.18 | .03 | 91.81 | 2.16 | 15.18 |
| 34 | 1.00 | 97.77 | .41 | 1.77 | 79.23 | 6.51 | 90.42 | 9.58 | .03 | 87.34 | 2.23 | 14.36 |
| 35 | 1.00 | 92.37 | .49 | 1.04 | 85.95 | 7.52 | 90.19 | 9.81 | .03 | 71.34 | 2.21 | 12.29 |
| 36 | 1.00 | 98.55 | .67 | 2.11 | 81.50 | 6.31 | 90.87 | 9.13 | .05 | 65.35 | 1.84 | 14.86 |
| 37 | 1.00 | 130.25 | .92 | .72 | 62.34 | 8.13 | 97.48 | 2.52 | .07 | 143.80 | 3.13 | 11.30 |
| 38 | 1.00 | 101.53 | .49 | 1.94 | 73.93 | 7.07 | 94.05 | 5.95 | .04 | 62.24 | 1.77 | 13.15 |
| 39 | 1.00 | 104.81 | .11 | 2.74 | 78.10 | 5.93 | 93.62 | 6.38 | .01 | 44.64 | 1.36 | 15.87 |
| 40 | 1.00 | 107.64 | .40 | 2.63 | 68.58 | 5.46 | 90.68 | 9.32 | .03 | 56.83 | 1.64 | 17.32 |
| 41 | 1.00 | 104.24 | .80 | 2.40 | 72.55 | 6.58 | 91.29 | 8.71 | .05 | 77.09 | 1.90 | 14.20 |
| 42 | 1.00 | 99.68 | .40 | .59 | 84.78 | 5.99 | 96.04 | 3.96 | .03 | 78.45 | 1.67 | 15.70 |
| 43 | 1.00 | 101.86 | .31 | 1.58 | 77.86 | 4.71 | 94.60 | 5.40 | .02 | 36.00 | 1.14 | 20.25 |
| 44 | 1.00 | 96.64 | .68 | .68 | 82.34 | 5.50 | 89.72 | 10.28 | .05 | 63.39 | 2.14 | 17.19 |
| 45 | 1.00 | 98.94 | .20 | 2.81 | 78.62 | 11.49 | 90.12 | 9.88 | .01 | 62.42 | 1.68 | 7.70 |
| 46 | 1.00 | 113.83 | .73 | .68 | 75.25 | 6.33 | 91.90 | 8.10 | .05 | 197.62 | 3.27 | 14.81 |
| 47 | 1.00 | 91.54 | .42 | 2.56 | 85.86 | 4.36 | 94.24 | 5.76 | .03 | 95.82 | 2.50 | 21.93 |
| 48 | 1.00 | 95.50 | .33 | 1.44 | 82.60 | 7.35 | 91.65 | 8.35 | .02 | 110.73 | 2.67 | 12.61 |
| 49 | 1.00 | 102.90 | .27 | 1.85 | 77.89 | 7.36 | 91.02 | 8.98 | .02 | 108.84 | 2.80 | 12.59 |
| 50 | 1.00 | 98.68 | .13 | 1.11 | 83.35 | 9.22 | 90.63 | 9.37 | .01 | 85.22 | 2.69 | 9.85 |
| 51 | 1.00 | 97.47 | .36 | 2.28 | 83.87 | 6.16 | 91.59 | 8.41 | .02 | 78.34 | 2.18 | 15.25 |
| 52 | 1.00 | 111.68 | .36 | 1.06 | 75.28 | 7.47 | 96.33 | 3.67 | .03 | 190.63 | 4.22 | 12.39 |
| 53 | 1.00 | 106.55 | .32 | 1.82 | 74.65 | 6.86 | 93.96 | 6.04 | .02 | 77.71 | 2.29 | 13.57 |
| 54 | 1.00 | 104.63 | .14 | 3.85 | 79.43 | 5.07 | 95.41 | 4.59 | .01 | 65.41 | 2.07 | 18.71 |
| 55 | 1.00 | 109.60 | .24 | 2.84 | 72.35 | 6.55 | 91.63 | 8.37 | .02 | 72.01 | 2.03 | 14.26 |
| 56 | 1.00 | 111.81 | .80 | 2.08 | 72.19 | 6.31 | 90.21 | 9.79 | .05 | 90.42 | 2.54 | 14.85 |
| 57 | 1.00 | 103.58 | .18 | .76 | 80.99 | 5.88 | 96.40 | 3.60 | .01 | 95.64 | 2.23 | 16.00 |
| 58 | 1.00 | 98.96 | .24 | 1.99 | 81.25 | 4.59 | 93.59 | 6.41 | .01 | 47.15 | 1.80 | 20.77 |
| 59 | 1.00 | 97.43 | .19 | .70 | 83.52 | 5.40 | 90.79 | 9.21 | .01 | 78.49 | 2.77 | 17.53 |

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|----|------|--------|------|------|-------|------|-------|-------|-----|--------|------|-------|
| 60 | 1.00 | 90.06 | .31 | 3.86 | 84.84 | 8.70 | 84.46 | 15.54 | .02 | 87.93 | 2.06 | 10.49 |
| 61 | 1.00 | 117.77 | .91 | .56 | 74.89 | 6.81 | 90.40 | 9.60 | .07 | 191.14 | 3.16 | 13.69 |
| 62 | 1.00 | 96.62 | .72 | 2.69 | 87.10 | 5.55 | 95.23 | 4.77 | .05 | 96.70 | 2.49 | 17.00 |
| 63 | 1.00 | 101.11 | .43 | 1.33 | 81.56 | 7.42 | 91.99 | 8.01 | .03 | 102.52 | 2.56 | 12.48 |
| 64 | 1.00 | 104.41 | .24 | 1.55 | 78.55 | 7.05 | 92.05 | 7.95 | .02 | 100.88 | 2.51 | 13.19 |
| 65 | 1.00 | 97.01 | .31 | 1.29 | 85.32 | 8.56 | 91.02 | 8.98 | .02 | 77.99 | 2.63 | 10.68 |
| 66 | 1.00 | 101.03 | .73 | 1.90 | 83.67 | 6.09 | 92.26 | 7.74 | .05 | 81.74 | 2.41 | 15.43 |
| 67 | 1.00 | 108.71 | 1.03 | 1.11 | 77.36 | 7.14 | 95.42 | 4.58 | .08 | 209.67 | 4.73 | 13.00 |
| 68 | 1.00 | 112.70 | .93 | 1.71 | 74.35 | 6.98 | 94.04 | 5.96 | .07 | 78.00 | 2.39 | 13.33 |
| 69 | 1.00 | 104.04 | .44 | 3.82 | 78.62 | 5.00 | 91.32 | 8.68 | .04 | 68.45 | 2.15 | 19.01 |
| 70 | 1.00 | 110.07 | .82 | 2.35 | 73.72 | 9.06 | 89.64 | 10.36 | .07 | 70.58 | 1.89 | 10.04 |
| 71 | 1.00 | 120.06 | 2.11 | 1.74 | 70.35 | 7.04 | 82.42 | 17.58 | .13 | 90.15 | 2.83 | 13.20 |
| 72 | 1.00 | 108.17 | .40 | .73 | 77.60 | 6.04 | 95.74 | 4.26 | .03 | 82.48 | 2.02 | 15.54 |
| 73 | 1.00 | 110.44 | .42 | 2.14 | 74.42 | 5.12 | 94.78 | 5.22 | .03 | 43.23 | 1.50 | 18.52 |
| 74 | 1.00 | 110.65 | .24 | .59 | 77.88 | 6.31 | 89.96 | 10.04 | .02 | 68.80 | 2.27 | 14.86 |
| 75 | 1.00 | 89.49 | .25 | 5.07 | 83.84 | 6.88 | 89.32 | 10.68 | .02 | 80.05 | 2.21 | 13.53 |
| 76 | 1.00 | 114.45 | .80 | .51 | 75.56 | 8.54 | 88.48 | 11.52 | .06 | 205.26 | 3.39 | 10.71 |
| 77 | 1.00 | 96.64 | .74 | 1.99 | 87.41 | 5.36 | 90.91 | 9.09 | .06 | 98.22 | 2.58 | 17.66 |
| 78 | 1.00 | 100.43 | .39 | 1.22 | 81.62 | 8.07 | 87.81 | 12.19 | .03 | 112.75 | 2.92 | 11.39 |
| 79 | 1.00 | 99.72 | .27 | 1.58 | 80.46 | 8.05 | 88.61 | 11.39 | .02 | 106.38 | 2.68 | 11.42 |
| 80 | 1.00 | 102.98 | .12 | 1.37 | 83.54 | 8.53 | 91.79 | 8.21 | .01 | 75.70 | 2.62 | 10.72 |
| 81 | 1.00 | 104.85 | .53 | 1.88 | 79.99 | 7.53 | 91.04 | 8.99 | .04 | 85.59 | 2.55 | 12.27 |
| 82 | 1.00 | 107.58 | .24 | 1.08 | 78.25 | 8.42 | 93.20 | 6.80 | .02 | 228.51 | 5.22 | 10.87 |
| 83 | 1.00 | 110.84 | .60 | 1.66 | 76.15 | 7.36 | 92.65 | 7.35 | .05 | 86.69 | 2.61 | 12.59 |
| 84 | 1.00 | 94.66 | .43 | 3.81 | 82.63 | 4.38 | 90.57 | 9.43 | .04 | 72.33 | 2.31 | 21.84 |
| 85 | 1.00 | 102.59 | .34 | 1.79 | 80.32 | 7.71 | 90.25 | 9.75 | .03 | 81.45 | 2.06 | 11.96 |
| 86 | 1.00 | 124.67 | .76 | 1.48 | 67.39 | 7.46 | 86.59 | 13.41 | .06 | 81.70 | 2.68 | 12.41 |
| 87 | 1.00 | 108.13 | .24 | .90 | 77.03 | 6.99 | 93.70 | 6.30 | .02 | 78.66 | 1.97 | 13.30 |
| 88 | 1.00 | 107.50 | .24 | 2.46 | 75.29 | 7.23 | 90.77 | 9.23 | .02 | 43.87 | 1.55 | 12.84 |
| 89 | 1.00 | 121.22 | .22 | .62 | 70.20 | 5.77 | 90.03 | 9.97 | .02 | 73.42 | 2.46 | 16.35 |

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|-----|------|--------|------|------|-------|-------|-------|-------|-----|---------|-------|-------|
| 90 | 1.00 | 94.56 | .25 | 5.74 | 79.34 | 5.79 | 94.84 | 5.16 | .02 | 94.14 | 2.52 | 16.28 |
| 91 | 1.00 | 116.17 | .67 | .58 | 73.16 | 8.70 | 87.50 | 12.50 | .06 | 210.80 | 3.62 | 10.49 |
| 92 | 1.00 | 101.07 | .48 | 1.52 | 82.89 | 5.88 | 90.74 | 9.26 | .00 | 1135.33 | 31.30 | 16.00 |
| 93 | 1.00 | 107.51 | .31 | 1.27 | 79.27 | 9.17 | 88.42 | 11.58 | .03 | 115.07 | 3.27 | 9.91 |
| 94 | 1.00 | 108.29 | .48 | 1.41 | 75.45 | 8.22 | 86.95 | 13.05 | .04 | 106.39 | 3.10 | 11.17 |
| 95 | 1.00 | 102.46 | .27 | 1.25 | 83.21 | 6.78 | 92.15 | 7.85 | .03 | 80.32 | 2.72 | 13.76 |
| 96 | 1.00 | 110.39 | .83 | 1.39 | 78.37 | 7.02 | 86.38 | 13.62 | .07 | 87.84 | 2.82 | 13.24 |
| 97 | 1.00 | 112.07 | .46 | 1.06 | 77.45 | 10.70 | 93.19 | 6.81 | .04 | 221.87 | 5.48 | 8.35 |
| 98 | 1.00 | 113.52 | .61 | 1.60 | 75.13 | 7.31 | 86.58 | 13.42 | .05 | 101.93 | 3.10 | 12.68 |
| 99 | 1.00 | 103.36 | 1.02 | 3.38 | 75.39 | 4.89 | 84.79 | 15.21 | .08 | 85.52 | 2.76 | 19.45 |
| 100 | 1.00 | 118.72 | .54 | 1.60 | 72.25 | 8.36 | 87.80 | 12.20 | .05 | 95.06 | 2.37 | 10.97 |
| 101 | 1.00 | 132.49 | .37 | 1.38 | 64.44 | 7.55 | 90.33 | 9.67 | .03 | 87.15 | 2.97 | 12.25 |
| 102 | 1.00 | 119.41 | .41 | .95 | 69.32 | 6.77 | 94.39 | 5.61 | .04 | 80.09 | 2.16 | 13.77 |
| 103 | 1.00 | 118.35 | .53 | 2.89 | 69.72 | 7.77 | 91.98 | 8.02 | .04 | 45.10 | 1.77 | 11.87 |
| 104 | 1.00 | 126.07 | .22 | .48 | 66.66 | 6.69 | 89.91 | 10.09 | .02 | 75.85 | 2.58 | 13.95 |
| 105 | 1.00 | 98.88 | .92 | 4.52 | 76.49 | 6.25 | 94.36 | 5.64 | .04 | 110.45 | 2.97 | 14.99 |
| 106 | 1.00 | 114.06 | .51 | .57 | 74.40 | 8.98 | 88.77 | 11.23 | .04 | 266.23 | 4.49 | 10.14 |
| 107 | 1.00 | 111.18 | .42 | 1.40 | 78.05 | 7.01 | 92.73 | 7.27 | .03 | 153.54 | 4.27 | 13.24 |
| 108 | 1.00 | 107.82 | .40 | 1.40 | 79.73 | 9.01 | 89.54 | 10.46 | .02 | 150.57 | 4.32 | 10.10 |
| 109 | 1.00 | 110.34 | .25 | 1.57 | 75.48 | 7.78 | 89.56 | 10.44 | .02 | 134.80 | 3.79 | 11.85 |
| 110 | 1.00 | 97.92 | .32 | 1.18 | 84.74 | 6.01 | 92.13 | 7.87 | .02 | 125.18 | 3.80 | 15.63 |
| 111 | 1.00 | 113.54 | .42 | 1.32 | 76.24 | 7.42 | 90.76 | 9.24 | .03 | 118.74 | 3.66 | 12.47 |
| 112 | 1.00 | 113.62 | .43 | 1.37 | 75.66 | 11.67 | 94.20 | 5.80 | .03 | 307.95 | 7.13 | 7.57 |
| 113 | 1.00 | 112.05 | .29 | 1.66 | 74.05 | 7.07 | 90.94 | 9.06 | .02 | 138.64 | 4.05 | 13.15 |
| 114 | 1.00 | 105.29 | 1.19 | 3.32 | 72.31 | 6.89 | 84.58 | 15.42 | .08 | 129.76 | 4.08 | 13.52 |
| 115 | 1.00 | 114.31 | .59 | 2.02 | 73.47 | 7.74 | 89.69 | 10.31 | .04 | 138.81 | 3.38 | 11.92 |
| 116 | 1.00 | 110.47 | .41 | 1.43 | 73.44 | 7.09 | 90.21 | 9.79 | .03 | 127.68 | 4.20 | 13.11 |
| 117 | 1.00 | 122.30 | .24 | 1.08 | 69.36 | 6.66 | 95.58 | 4.42 | .02 | 116.50 | 2.87 | 14.02 |
| 118 | 1.00 | 124.59 | .28 | 2.66 | 65.61 | 7.19 | 90.49 | 9.51 | .02 | 58.60 | 2.33 | 12.91 |
| 119 | 1.00 | 117.36 | .29 | 1.21 | 70.90 | 6.63 | 90.00 | 10.00 | .02 | 107.11 | 3.29 | 14.07 |

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| 120 | 1.00 | 103.68 | .30 | 4.03 | 72.88 | 8.74 | 84.42 | 15.58 | .02 | 156.36 | 3.83 | 10.45 |
| 121 | 1.00 | 115.79 | .58 | .58 | 73.04 | 9.31 | 88.99 | 11.01 | .04 | 264.40 | 5.04 | 9.74 |
| 122 | 1.00 | 105.86 | .51 | 1.61 | 81.24 | 7.07 | 94.21 | 5.79 | .04 | 160.53 | 4.86 | 13.14 |
| 123 | 1.00 | 106.06 | .42 | 1.31 | 80.93 | 9.62 | 91.13 | 8.87 | .03 | 152.94 | 4.91 | 9.40 |
| 124 | 1.00 | 114.98 | .24 | 1.45 | 73.77 | 7.52 | 89.28 | 10.72 | .02 | 135.53 | 4.63 | 12.30 |
| 125 | 1.00 | 103.90 | .35 | 1.30 | 81.99 | 7.26 | 92.93 | 7.07 | .03 | 121.93 | 4.17 | 12.78 |
| 126 | 1.00 | 110.50 | .23 | 1.38 | 77.35 | 7.25 | 93.31 | 6.69 | .02 | 108.74 | 4.41 | 12.80 |
| 127 | 1.00 | 114.64 | .36 | 1.51 | 77.02 | 10.60 | 94.03 | 5.97 | .03 | 310.33 | 7.84 | 8.43 |
| 128 | 1.00 | 114.30 | .46 | 2.05 | 72.14 | 6.65 | 90.23 | 9.77 | .03 | 134.22 | 4.39 | 14.05 |
| 129 | 1.00 | 143.94 | 13.87 | 4.78 | 67.35 | 8.39 | 91.73 | 8.27 | 1.28 | 102.25 | 3.19 | 10.91 |
| 130 | 1.00 | 109.80 | .51 | 2.54 | 76.64 | 7.60 | 92.73 | 7.27 | .04 | 126.31 | 3.61 | 12.16 |
| 131 | 1.00 | 124.89 | .42 | 1.45 | 68.82 | 8.91 | 91.73 | 8.27 | .03 | 135.03 | 5.36 | 10.23 |
| 132 | 1.00 | 122.27 | .47 | 1.17 | 68.76 | 9.74 | 94.58 | 5.42 | .04 | 135.91 | 3.72 | 9.27 |
| 133 | 1.00 | 115.50 | .00 | 3.26 | 70.22 | 6.39 | 90.36 | 9.64 | .00 | 59.94 | 2.58 | 14.64 |
| 134 | 1.00 | 116.98 | .21 | 1.32 | 72.99 | 7.48 | 90.68 | 9.32 | .02 | 112.70 | 3.55 | 12.36 |
| 135 | 1.00 | 108.48 | .22 | 6.02 | 72.45 | 8.53 | 92.42 | 7.58 | .02 | 104.58 | 4.40 | 10.72 |
| 136 | 1.00 | 113.51 | 5.39 | .93 | 67.20 | 7.33 | 86.04 | 13.96 | .15 | 297.28 | 6.18 | 12.64 |
| 137 | 1.00 | 118.60 | 5.05 | 2.43 | 73.32 | 5.79 | 93.35 | 6.65 | .22 | 160.05 | 5.28 | 16.28 |
| 138 | 1.00 | 103.43 | 4.39 | 1.43 | 73.98 | 7.14 | 89.47 | 10.53 | .19 | 170.17 | 5.83 | 13.00 |
| 139 | 1.00 | 101.64 | 3.20 | 1.75 | 77.94 | 5.82 | 89.96 | 10.04 | .15 | 164.23 | 6.02 | 16.19 |
| 140 | 1.00 | 104.49 | 2.70 | 1.82 | 78.79 | 5.31 | 91.51 | 8.49 | .12 | 142.00 | 4.69 | 17.84 |
| 141 | 1.00 | 117.74 | 2.93 | 1.81 | 66.29 | 5.72 | 91.11 | 8.89 | .08 | 123.45 | 5.37 | 16.48 |
| 142 | .00 | 218.75 | 14.09 | 3.87 | 45.76 | -2.51 | 92.63 | 7.37 | 1.02 | 373.07 | 9.97 | -40.82 |
| 143 | .00 | 147.79 | 8.48 | 2.54 | 59.83 | -.05 | 89.33 | 10.67 | .43 | 158.32 | 5.42 | -2114 |
| 144 | .00 | 147.70 | 16.61 | 3.30 | 68.08 | -1.32 | 99.76 | .24 | .56 | 102.05 | 3.18 | -76.53 |
| 145 | .00 | 233.27 | 14.93 | 3.71 | 42.27 | -4.19 | 83.04 | 16.96 | .94 | 151.56 | 4.58 | -24.88 |
| 146 | 1.00 | 167.68 | 2.49 | 2.01 | 51.17 | 6.31 | 93.98 | 6.02 | .10 | 153.17 | 7.27 | 14.84 |
| 147 | 1.00 | 128.88 | 3.08 | 2.07 | 68.98 | 6.99 | 94.23 | 5.77 | .13 | 178.03 | 4.96 | 13.31 |
| 148 | 1.00 | 118.86 | 4.82 | 4.58 | 65.98 | 4.07 | 90.66 | 9.34 | .23 | 76.63 | 3.49 | 23.57 |
| 149 | 1.00 | 128.37 | 2.77 | 1.81 | 63.40 | 5.70 | 89.86 | 10.14 | .12 | 133.37 | 4.17 | 16.55 |

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|-----|------|--------|-------|------|-------|-------|--------|-------|------|--------|------|---------|
| 150 | 1.00 | 158.79 | 1.20 | 7.83 | 52.08 | 6.01 | 97.61 | 2.39 | .02 | 103.96 | 4.77 | 15.65 |
| 151 | 1.00 | 98.22 | 10.72 | .73 | 76.54 | 7.98 | 84.88 | 15.15 | .36 | 253.97 | 6.14 | 11.53 |
| 152 | 1.00 | 119.13 | 14.83 | 4.46 | 75.44 | 7.84 | 90.01 | 9.99 | .70 | 144.24 | 5.04 | 11.76 |
| 153 | 1.00 | 95.65 | 11.45 | 1.57 | 82.26 | 7.44 | 88.59 | 11.41 | .45 | 161.69 | 5.77 | 12.44 |
| 154 | 1.00 | 92.07 | 5.77 | 2.83 | 84.11 | 4.97 | 87.85 | 12.15 | .18 | 167.66 | 6.72 | 19.12 |
| 155 | 1.00 | 91.62 | 4.16 | 3.08 | 83.61 | 5.56 | 92.80 | 7.20 | .08 | 139.71 | 4.84 | 16.98 |
| 156 | 1.00 | 103.41 | 4.32 | 3.32 | 79.03 | 5.89 | 92.66 | 7.34 | .10 | 125.08 | 5.69 | 15.97 |
| 157 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 158 | .00 | 116.48 | 19.37 | 5.14 | 74.70 | 3.43 | 100.46 | -46 | 1.09 | 120.24 | 4.41 | 28.16 |
| 159 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 160 | .00 | 108.31 | 36.67 | 4.40 | 94.08 | .00 | 109.84 | -9.84 | 2.73 | 81.93 | 2.68 | -933784 |
| 161 | 1.00 | 108.57 | 7.06 | 3.86 | 77.64 | 6.50 | 91.25 | 8.75 | .30 | 162.83 | 8.43 | 14.40 |
| 162 | 1.00 | 98.60 | 9.62 | 3.78 | 82.06 | 6.27 | 95.65 | 4.31 | .41 | 178.92 | 5.20 | 14.96 |
| 163 | .00 | 88.65 | 20.34 | 7.08 | 91.82 | -1.20 | 95.61 | 4.39 | 1.14 | 65.17 | 3.09 | -84.32 |
| 164 | .00 | 88.89 | 10.38 | 4.04 | 82.34 | 1.58 | 93.51 | 6.49 | .48 | 127.10 | 4.27 | 62.49 |
| 165 | .00 | 106.81 | 31.38 | 8.90 | 83.75 | 12.42 | 94.78 | 5.22 | 3.26 | 64.55 | 3.12 | 7.05 |
| 166 | 1.00 | 96.29 | 18.09 | .20 | 80.92 | 3.80 | 71.01 | 28.99 | .73 | 175.06 | 4.51 | 25.30 |
| 167 | 1.00 | 116.46 | 24.07 | 4.45 | 80.80 | 10.19 | 88.09 | 11.91 | 1.53 | 85.71 | 3.03 | 8.82 |
| 168 | 1.00 | 80.60 | 4.80 | .53 | 83.68 | 3.61 | 87.15 | 12.85 | .76 | 95.91 | 3.81 | 26.69 |
| 169 | 1.00 | 86.82 | 3.83 | .81 | 82.14 | 8.41 | 85.04 | 14.96 | 1.07 | 97.25 | 4.61 | 10.89 |
| 170 | 1.00 | 99.55 | 7.70 | 2.01 | 80.64 | 5.47 | 91.89 | 8.11 | .54 | 69.09 | 2.89 | 17.29 |
| 171 | 1.00 | 108.63 | 7.51 | 3.50 | 77.56 | 2.64 | 89.71 | 10.29 | .42 | 59.40 | 2.83 | 36.81 |
| 172 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 173 | .00 | 108.39 | 20.52 | 5.32 | 80.04 | 1.28 | 88.57 | 11.43 | .00 | 66.05 | 2.54 | 76.83 |
| 174 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 175 | .00 | 116.33 | 33.33 | 4.03 | 96.37 | -3.67 | 78.63 | 21.37 | .00 | 49.14 | 1.76 | -28.25 |
| 176 | 1.00 | 100.85 | 14.01 | 3.44 | 79.54 | 7.84 | 83.93 | 16.07 | 1.10 | 78.96 | 3.85 | 11.76 |
| 177 | 1.00 | 110.75 | 18.84 | 3.35 | 82.88 | 3.53 | 87.53 | 12.47 | 1.19 | 83.83 | 3.28 | 27.37 |
| 178 | 1.00 | 141.69 | 41.14 | 7.52 | 72.06 | 7.22 | 92.10 | 7.90 | 1.40 | 68.46 | 2.61 | 12.85 |
| 179 | .00 | 111.30 | 7.36 | .11 | 75.82 | 9.61 | 89.34 | 10.66 | -.37 | 65.51 | 2.29 | 9.40 |

| | | | | | | | | | | | | |
|-----|------|--------|-------|------|--------|-------|-------|-------|--------|-------|------|--------|
| 180 | 1.00 | 8.28 | 4.05 | 1.09 | 69.49 | 26.61 | 97.78 | 2.22 | -11.46 | 17.22 | .93 | 2.76 |
| 181 | 1.00 | 76.02 | 1.43 | .29 | 83.29 | 2.15 | 83.81 | 16.19 | .73 | 76.61 | 2.01 | 45.45 |
| 182 | 1.00 | 110.30 | 25.50 | 4.31 | 84.01 | 8.64 | 87.01 | 12.99 | .46 | 36.04 | 1.46 | 10.58 |
| 183 | 1.00 | 76.27 | 4.07 | .45 | 84.26 | 3.31 | 81.32 | 18.68 | .00 | 47.51 | 2.18 | 29.24 |
| 184 | 1.00 | 83.74 | 4.06 | .59 | 82.83 | 7.72 | 75.86 | 24.14 | .19 | 48.48 | 2.31 | 11.96 |
| 185 | 1.00 | 90.14 | 1.74 | 1.61 | 83.98 | 3.25 | 93.74 | 6.26 | .71 | 30.29 | 1.29 | 29.78 |
| 186 | 1.00 | 102.25 | 4.37 | 2.30 | 78.48 | 4.36 | 82.61 | 17.39 | 2.58 | 24.72 | 1.21 | 21.96 |
| 187 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 188 | .00 | 101.94 | 21.58 | 5.04 | 89.47 | -.05 | 95.55 | 4.45 | .01 | 22.68 | .97 | -1871 |
| 189 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 190 | .00 | 113.60 | 30.89 | 3.98 | 101.40 | -4.98 | 83.73 | 16.27 | .00 | 18.41 | .74 | -21.06 |
| 191 | 1.00 | 97.66 | 16.71 | 3.08 | 86.30 | 5.49 | 76.16 | 23.84 | .78 | 37.52 | 1.78 | 17.22 |
| 192 | 1.00 | 127.18 | 17.34 | 2.83 | 68.34 | 14.98 | 86.41 | 13.59 | .10 | 49.50 | 1.68 | 5.67 |
| 193 | 1.00 | 137.95 | 41.50 | 7.29 | 75.01 | 6.23 | 76.96 | 23.04 | .00 | 42.18 | 1.70 | 15.05 |
| 194 | 1.00 | 118.21 | 7.74 | .19 | 70.09 | 7.63 | 90.06 | 9.94 | .21 | 29.46 | 1.57 | 12.11 |
| 195 | 1.00 | 9.15 | 1.00 | .95 | 67.93 | 6.79 | 88.87 | 11.13 | .14 | 15.32 | .88 | 13.74 |

มหาวิทยาลัยเชียงใหม่
Chiang Mai University

ภาคผนวก ข

การคำนวณค่าแบบจำลอง Logit

Logistic Regression

Total number of cases: 195 (Unweighted)

Number of selected cases: 195

Number of unselected cases: 0

Number of selected cases: 195

Number rejected because of missing data: 0

Number of cases included in the analysis: 195

Dependent Variable Encoding:

| Original Value | Internal Value |
|----------------|----------------|
| .00 | 0 |
| 1.00 | 1 |

Dependent Variable.. Y

Beginning Block Number 0. Initial Log Likelihood Function

-2 Log Likelihood 128.96545

* Constant is included in the model.

Estimation terminated at iteration number 4 because

Log Likelihood decreased by less than .01 percent.

Iteration History:

| Iteration | Log Likelihood | Constant |
|-----------|----------------|-----------|
| 1 | -67.992916 | 1.5897436 |
| 2 | -64.582895 | 2.0648528 |
| 3 | -64.482876 | 2.1649232 |
| 4 | -64.482723 | 2.1690469 |

Classification Table for Y

The Cut Value is .50

| Observed | Predicted | | Percent Correct | |
|----------|-----------|------|-----------------|---------|
| | .00 | 1.00 | | |
| .00 | 0 | 0 | 20 | .00% |
| 1.00 | 1 | 0 | 175 | 100.00% |
| | | | Overall | 89.74% |

----- Variables in the Equation -----

| Variable | B | S.E. | Wald | df | Sig | R |
|----------|--------|-------|---------|----|-------|---|
| Constant | 2.1690 | .2360 | 84.4449 | 1 | .0000 | |

95% CI for Exp(B)

| Variable | Exp(B) | Lower | Upper |
|----------|--------|-------|-------|
| | | | |

Beginning Block Number 1. Method: Forward Stepwise (LR)

----- Variables not in the Equation -----

Residual Chi Square not computed because of redundancies.

| Variable | Score | df | Sig. | R |
|----------|---------|----|-------|-------|
| DA | 38.3886 | 1 | .0000 | .5312 |
| DE | 8.8777 | 1 | .0029 | .2309 |
| EA | 69.8826 | 1 | .0000 | .7255 |
| GP | 45.0554 | 1 | .0000 | .5778 |
| LD | 5.2850 | 1 | .0215 | .1596 |
| IL | 8.5217 | 1 | .0035 | .2249 |
| LP | 40.5169 | 1 | .0000 | .5465 |
| PB | 2.0431 | 1 | .1529 | .0183 |
| PM | 1.0404 | 1 | .3077 | .0000 |
| RO | 7.5610 | 1 | .0060 | .2077 |
| RP | 4.6783 | 1 | .0305 | .1441 |

Variable(s) Entered on Step Number

1.. EA

Estimation terminated at iteration number 6 because
Log Likelihood decreased by less than .01 percent.

Iteration History:

| Iteration | Log Likelihood | Constant | EA |
|-----------|----------------|------------|-----------|
| 1 | -49.470564 | .1876995 | .22336304 |
| 2 | -32.232626 | -.5688082 | .48291899 |
| 3 | -27.351955 | -1.1317384 | .69463583 |
| 4 | -26.494772 | -1.4452137 | .82317924 |
| 5 | -26.448484 | -1.5279626 | .86063992 |
| 6 | -26.448282 | -1.5331910 | .86324078 |

-2 Log Likelihood 52.897
 Goodness of Fit 10660.537
 Cox & Snell - R² .323
 Nagelkerke - R² .668

| | Chi-Square | df | Significance |
|-------|------------|----|--------------|
| Model | 76.069 | 1 | .0000 |
| Block | 76.069 | 1 | .0000 |
| Step | 76.069 | 1 | .0000 |

----- Hosmer and Lemeshow Goodness-of-Fit Test-----

Y = .00 Y = 1.00

| Group | Observed | Expected | Observed | Expected | Total |
|-------|----------|----------|----------|----------|--------|
| 1 | 17.000 | 15.345 | 3.000 | 4.655 | 20.000 |
| 2 | 1.000 | 2.193 | 19.000 | 17.807 | 20.000 |
| 3 | .000 | .919 | 20.000 | 19.081 | 20.000 |
| 4 | .000 | .565 | 20.000 | 19.435 | 20.000 |
| 5 | .000 | .378 | 20.000 | 19.622 | 20.000 |
| 6 | .000 | .235 | 19.000 | 18.765 | 19.000 |
| 7 | .000 | .177 | 20.000 | 19.823 | 20.000 |
| 8 | .000 | .122 | 20.000 | 19.878 | 20.000 |
| 9 | .000 | .056 | 20.000 | 19.944 | 20.000 |
| 10 | 2.000 | .010 | 14.000 | 15.990 | 16.000 |

| | Chi-Square | df | Significance |
|----------------------|------------|----|--------------|
| Goodness-of-fit test | 387.4679 | 8 | .0000 |

Classification Table for Y

The Cut Value is .50

| | Predicted | | Percent Correct |
|----------|-----------|------|-----------------|
| | .00 | 1.00 | |
| Observed | 0 | 1 | |
| .00 | 17 | 3 | 85.00% |
| 1.00 | 1 | 175 | 100.00% |
| | Overall | | 98.46% |

----- Variables in the Equation -----

| Variable | B | S.E. | Wald | df | Sig | R |
|----------|---------|-------|---------|----|-------|-------|
| EA | .8632 | .1531 | 31.7750 | 1 | .0000 | .4805 |
| Constant | -1.5332 | .6635 | 5.3400 | 1 | .0208 | |

95% CI for Exp(B)

| Variable | Exp(B) | Lower | Upper |
|----------|--------|--------|--------|
| EA | 2.3708 | 1.7561 | 3.2008 |

Correlation Matrix:

| | Constant | EA |
|----------|----------|---------|
| Constant | 1.00000 | -.81881 |
| EA | -.81881 | 1.00000 |

Predicted Probability is of Membership for 1.00

The Cut Value is .50

Symbols: 0 - .00

1 - 1.00

Each Symbol Represents 10 Cases.

----- Model if Term Removed -----

| Term | Log Likelihood | -2 Log LR | df | Significance of Log LR |
|---------|----------------|-----------|----|------------------------|
| Removed | | | | |
| EA | -64.483 | 76.069 | 1 | .0000 |

----- Variables not in the Equation -----

Residual Chi Square not computed because of redundancies.

| Variable | Score | df | Sig | R |
|----------|--------|----|-------|-------|
| DA | 1.8665 | 1 | .1719 | .0000 |
| DE | .2328 | 1 | .6294 | .0000 |
| GP | 1.1078 | 1 | .2926 | .0000 |
| LD | .3126 | 1 | .5761 | .0000 |
| IL | 3.9931 | 1 | .0457 | .1243 |
| LP | 9.5246 | 1 | .0020 | .2415 |
| PB | .1330 | 1 | .7153 | .0000 |
| PM | .0006 | 1 | .9809 | .0000 |
| RO | 3.9085 | 1 | .0480 | .1216 |
| RP | 4.8055 | 1 | .0284 | .1475 |

Variable(s) Entered on Step Number

2.. LP

Estimation terminated at iteration number 6 because
Log Likelihood decreased by less than .01 percent.

Iteration History:

| Iteration | Log Likelihood | Constant | EA | LP |
|-----------|----------------|------------|-----------|------------|
| 1 | -45.743210 | .57261983 | .19388299 | -.05201044 |
| 2 | -29.210525 | .03091234 | .42800788 | -.06666846 |
| 3 | -23.929465 | -.47802727 | .64446267 | -.08225423 |
| 4 | -22.735545 | -.74260872 | .79169811 | -.09831314 |
| 5 | -22.619149 | -.81602273 | .85063975 | -.10620868 |
| 6 | -22.617306 | -.82319387 | .85881612 | -.10739560 |

-2 Log Likelihood 45.235

Goodness of Fit 1423.734

Cox & Snell - R² .349

Nagelkerke - R² .721

| | Chi-Square | df | Significance |
|-------|------------|----|--------------|
| Model | 83.731 | 2 | .0000 |
| Block | 83.731 | 2 | .0000 |
| Step | 7.662 | 1 | .0056 |

----- Hosmer and Lemeshow Goodness-of-Fit Test-----

Y = .00 Y = 1.00

| Group | Observed | Expected | Observed | Expected | Total |
|-------|----------|----------|----------|----------|--------|
| 1 | 18.000 | 15.862 | 2.000 | 4.138 | 20.000 |
| 2 | .000 | 2.566 | 20.000 | 17.434 | 20.000 |
| 3 | .000 | .590 | 20.000 | 19.410 | 20.000 |

| | | | | | |
|----|-------|------|--------|--------|--------|
| 4 | .000 | .368 | 20.000 | 19.632 | 20.000 |
| 5 | .000 | .234 | 20.000 | 19.766 | 20.000 |
| 6 | .000 | .155 | 20.000 | 19.845 | 20.000 |
| 7 | .000 | .111 | 20.000 | 19.889 | 20.000 |
| 8 | .000 | .076 | 20.000 | 19.924 | 20.000 |
| 9 | 2.000 | .033 | 18.000 | 19.967 | 20.000 |
| 10 | .000 | .006 | 15.000 | 14.994 | 15.000 |

| | Chi-Square | df | Significance |
|----------------------|------------|----|--------------|
| Goodness-of-fit test | 123.5673 | 8 | .0000 |

Classification Table for Y

The Cut Value is .50

| Observed | Predicted | | Percent Correct | |
|----------------|-----------|------|-----------------|---------|
| | .00 | 1.00 | | |
| | 0 | 1 | | |
| .00 | 0 | 17 | 3 | 85.00% |
| 1.00 | 1 | 0 | 175 | 100.00% |
| Overall 98.46% | | | | |

----- Variables in the Equation -----

| Variable | B | S.E. | Wald | df | Sig | R |
|----------|--------|-------|---------|----|-------|--------|
| EA | .8588 | .1685 | 25.9670 | 1 | .0000 | .4311 |
| LP | -.1074 | .0363 | 8.7426 | 1 | .0031 | -.2287 |
| Constant | -.8232 | .6967 | 1.3962 | 1 | .2374 | |

95% CI for Exp(B)

| Variable | Exp(B) | Lower | Upper |
|----------|--------|--------|--------|
| EA | 2.3604 | 1.6964 | 3.2842 |
| LP | .8982 | .8365 | .9644 |

Correlation Matrix:

| | Constant | EA | LP |
|----------|----------|---------|---------|
| Constant | 1.00000 | -.70776 | -.17032 |
| EA | -.70776 | 1.00000 | -.30371 |
| LP | -.17032 | -.30371 | 1.00000 |

Predicted Probability is of Membership for 1.00

The Cut Value is .50

Symbols: 0 - .00

1 - 1.00

Each Symbol Represents 10 Cases.

----- Model if Term Removed -----

| Term | Log Likelihood | -2 Log LR | df | Significance of Log LR |
|---------|----------------|-----------|----|------------------------|
| Removed | | | | |
| EA | -51.568 | 57.901 | 1 | .0000 |
| LP | -26.448 | 7.662 | 1 | .0056 |

----- Variables not in the Equation -----

Residual Chi Square not computed because of redundancies.

| Variable | Score | df | Sig | R |
|----------|--------|----|-------|-------|
| DA | 6.4415 | 1 | .0111 | .1856 |
| DE | .0097 | 1 | .9216 | .0000 |
| GP | 4.4285 | 1 | .0353 | .1372 |

| | | | | |
|----|--------|---|-------|-------|
| LD | 5.7247 | 1 | .0167 | .1699 |
| IL | .0042 | 1 | .9483 | .0000 |
| PB | .6910 | 1 | .4058 | .0000 |
| PM | .4356 | 1 | .5093 | .0000 |
| RO | 7.6607 | 1 | .0056 | .2095 |
| RP | 1.7657 | 1 | .1839 | .0000 |

Variable(s) Entered on Step Number

3.. RO

Estimation terminated at iteration number 7 because
Log Likelihood decreased by less than .01 percent.

Iteration History:

| Iteration | Log Likelihood | Constant | EA | LP | RO |
|-----------|----------------|------------|-----------|------------|-----------|
| 1 | -43.847686 | .3214887 | .18722406 | -.05527137 | .03202941 |
| 2 | -24.915609 | -.6052467 | .37950255 | -.08459348 | .11081051 |
| 3 | -18.293211 | -1.4263577 | .52727279 | -.12368705 | .20840661 |
| 4 | -16.450739 | -2.0358737 | .62662924 | -.15945367 | .30037470 |
| 5 | -16.165026 | -2.3812675 | .67757268 | -.18105107 | .35742635 |
| 6 | -16.153551 | -2.4729889 | .69054771 | -.18661511 | .37216411 |
| 7 | -16.153525 | -2.4780046 | .69123089 | -.18689840 | .37292671 |

-2 Log Likelihood 32.307

Goodness of Fit 890.078

Cox & Snell - R² .391

Nagelkerke - R² .808

| | Chi-Square | df | Significance |
|-------|------------|----|--------------|
| Model | 96.658 | 3 | .0000 |
| Block | 96.658 | 3 | .0000 |
| Step | 12.928 | 1 | .0003 |

----- Hosmer and Lemeshow Goodness-of-Fit Test-----

Y = .00 Y = 1.00

| Group | Observed | Expected | Observed | Expected | Total |
|-------|----------|----------|----------|----------|--------|
| 1 | 18.000 | 17.467 | 2.000 | 2.533 | 20.000 |
| 2 | 1.000 | 1.414 | 19.000 | 18.586 | 20.000 |
| 3 | .000 | .478 | 20.000 | 19.522 | 20.000 |
| 4 | .000 | .270 | 20.000 | 19.730 | 20.000 |
| 5 | .000 | .167 | 20.000 | 19.833 | 20.000 |
| 6 | .000 | .101 | 20.000 | 19.899 | 20.000 |
| 7 | .000 | .057 | 20.000 | 19.943 | 20.000 |
| 8 | 1.000 | .032 | 19.000 | 19.968 | 20.000 |
| 9 | .000 | .012 | 20.000 | 19.988 | 20.000 |
| 10 | .000 | .002 | 15.000 | 14.998 | 15.000 |

| | Chi-Square | df | Significance |
|--|------------|----|--------------|
|--|------------|----|--------------|

| | | | |
|----------------------|---------|---|-------|
| Goodness-of-fit test | 31.0404 | 8 | .0001 |
|----------------------|---------|---|-------|

Classification Table for Y

The Cut Value is .50

| | Predicted | | | Percent Correct |
|----------|-----------|------|--|-----------------|
| | .00 | 1.00 | | |
| Observed | 0 | 1 | | |
| .00 | 18 | 2 | | 90.00% |
| 1.00 | 1 | 174 | | 99.43% |
| Overall | | | | 98.46% |

----- Variables in the Equation -----

| Variable | B | S.E. | Wald | df | Sig | R |
|----------|---------|--------|---------|----|-------|--------|
| EA | .6912 | .1569 | 19.4050 | 1 | .0000 | .3674 |
| LP | -.1869 | .0586 | 10.1896 | 1 | .0014 | -.2520 |
| RO | .3729 | .1327 | 7.8919 | 1 | .0050 | .2137 |
| Constant | -2.4780 | 1.2048 | 4.2301 | 1 | .0397 | |

95% CI for Exp(B)

| Variable | Exp(B) | Lower | Upper |
|----------|--------|--------|--------|
| EA | 1.9962 | 1.4677 | 2.7150 |
| LP | .8295 | .7396 | .9304 |
| RO | 1.4520 | 1.1193 | 1.8835 |

Correlation Matrix:

| | Constant | EA | LP | RO |
|----------|----------|---------|---------|---------|
| Constant | 1.00000 | -.59909 | .15971 | -.70659 |
| EA | -.59909 | 1.00000 | -.14374 | .18596 |

| | | | | |
|----|---------|---------|---------|---------|
| LP | .15971 | -.14374 | 1.00000 | -.56637 |
| RO | -.70659 | .18596 | -.56637 | 1.00000 |

Predicted Probability is of Membership for 1.00

The Cut Value is .50

Symbols: 0 - .00

1 - 1.00

Each Symbol Represents 10 Cases.

----- Model if Term Removed -----

| Term | Log Likelihood | -2 Log LR | df | Significance of Log LR |
|------|----------------|-----------|----|------------------------|
| EA | -37.039 | 41.770 | 1 | .0000 |
| LP | -23.215 | 14.122 | 1 | .0002 |
| RO | -22.617 | 12.928 | 1 | .0003 |

----- Variables not in the Equation -----

Residual Chi Square 4.032 with 8 df Sig = .8542

| Variable | Score | df | Sig | R |
|----------|--------|----|-------|-------|
| DA | 1.3477 | 1 | .2457 | .0000 |
| DE | .3610 | 1 | .5480 | .0000 |
| GP | 1.3320 | 1 | .2485 | .0000 |
| LD | .3687 | 1 | .5437 | .0000 |
| IL | .3001 | 1 | .5838 | .0000 |
| PB | .0338 | 1 | .8540 | .0000 |
| PM | .0011 | 1 | .9741 | .0000 |
| RP | 1.4551 | 1 | .2277 | .0000 |

No more variables can be deleted or added.

CASE Observed

| Y | Pred | PGroup | Resid | ZResid |
|------------|-------|--------|--------|----------|
| 165 S 0 ** | .8992 | 1 | -.8992 | -2.9875 |
| 178 S 1 ** | .0971 | 0 | .9029 | 3.0499 |
| 179 S 0 ** | .9988 | 1 | -.9988 | -29.4377 |

S=Selected U=Unselected cases

** = Misclassified cases

* Cases with studentized residuals greater than 2 are listed.

The Cut Value is .50

ภาคผนวก ค

วิธีคำนวณค่าการวิเคราะห์ Multiple Discriminant

Discriminant

Analysis Case Processing Summary

| Unweighted Cases | | N | Percent |
|------------------|---|-----|---------|
| Valid | | 195 | 100.0 |
| Excluded | Missing or out-of-range group codes | 0 | .0 |
| | At least one missing discriminating variable | 0 | .0 |
| | Both missing or out-of-range group codes and at least one missing discriminating variable | 0 | .0 |
| | Total | 0 | .0 |
| Total | | 195 | 100.0 |

Group Statistics

| Y | | Mean | Std. Deviation | Valid N (listwise) | |
|-------|--------|-----------|-------------------|--------------------|----------|
| | | | | Unweighted | Weighted |
| .00 | LD | 90.4105 | 71.0357 | 20 | 20.000 |
| | LP | 14.2965 | 12.3831 | 20 | 20.000 |
| | IL | 3.0730 | 2.6601 | 20 | 20.000 |
| | DA | 54.2865 | 39.4300 | 20 | 20.000 |
| | EA | .5175 | 4.1197 | 20 | 20.000 |
| | DE | -46893.1 | 208753.3 | 20 | 20.000 |
| | GP | 64.7390 | 43.9858 | 20 | 20.000 |
| | RO | 5.2610 | 7.5165 | 20 | 20.000 |
| | RP | .5649 | .9461 | 20 | 20.000 |
| | PB | 73.2891 | 88.2183 | 20 | 20.000 |
| PM | 2.4522 | 2.5155 | 20 | 20.000 | |
| 1.00 | LD | 105.4417 | 16.9022 | 175 | 175.000 |
| | LP | 2.6483 | 6.0514 | 175 | 175.000 |
| | IL | 1.9944 | 1.3613 | 175 | 175.000 |
| | DA | 76.6119 | 6.3239 | 175 | 175.000 |
| | EA | 6.9352 | 2.3986 | 175 | 175.000 |
| | DE | 14.7789 | 5.0732 | 175 | 175.000 |
| | GP | 90.4317 | 3.9193 | 175 | 175.000 |
| | RO | 10.0256 | 7.2030 | 175 | 175.000 |
| | RP | 8.249E-02 | .9376 | 175 | 175.000 |
| | PB | 105.7699 | 97.1016 | 175 | 175.000 |
| PM | 3.0832 | 2.6395 | 175 | 175.000 | |
| Total | LD | 103.9001 | 27.7730 | 195 | 195.000 |
| | LP | 3.8430 | 7.7727 | 195 | 195.000 |
| | IL | 2.1051 | 1.5693 | 195 | 195.000 |
| | DA | 74.3221 | 15.3052 | 195 | 195.000 |
| | EA | 6.2770 | 3.2608 | 195 | 195.000 |
| | DE | -4796.29 | 66869.42 | 195 | 195.000 |
| | GP | 87.7966 | 16.2584 | 195 | 195.000 |
| | RO | 9.5369 | 7.3599 | 195 | 195.000 |
| | RP | .1320 | .9474 | 195 | 195.000 |
| | PB | 102.4385 | 96.5220 | 195 | 195.000 |
| PM | 3.0185 | 2.6278 | 195 | 195.000 | |

Tests of Equality of Group Means

| | Wilks' Lambda | F | df1 | df2 | Sig. |
|----|---------------|---------|-----|-----|------|
| LD | .973 | 5.376 | 1 | 193 | .021 |
| LP | .792 | 50.620 | 1 | 193 | .000 |
| IL | .956 | 8.820 | 1 | 193 | .003 |
| DA | .803 | 47.306 | 1 | 193 | .000 |
| EA | .642 | 107.796 | 1 | 193 | .000 |
| DE | .954 | 9.206 | 1 | 193 | .003 |
| GP | .769 | 57.990 | 1 | 193 | .000 |
| RO | .961 | 7.785 | 1 | 193 | .006 |
| RP | .976 | 4.744 | 1 | 193 | .031 |
| PB | .990 | 2.043 | 1 | 193 | .154 |
| PM | .995 | 1.035 | 1 | 193 | .310 |

Analysis 1

Stepwise Statistics

Variables Entered/Removed^{a, b, d}

| Step | Entered | Wilks' Lambda | | | | | | | |
|------|---------|---------------|-----|-----|---------|-----------|-----|---------|------|
| | | Statistic | df1 | df2 | df3 | Exact F | | | |
| | | | | | | Statistic | df1 | df2 | Sig. |
| 1 | EA | .642 | 1 | 1 | 193.000 | 107.796 | 1 | 193.000 | .000 |
| 2 | LP | .537 | 2 | 1 | 193.000 | 82.614 | 2 | 192.000 | .000 |
| 3 | DA | .383 | 3 | 1 | 193.000 | 102.587 | 3 | 191.000 | .000 |
| 4 | RP | .365 | 4 | 1 | 193.000 | 82.604 | 4 | 190.000 | .000 |
| 5 | RO | .353 | 5 | 1 | 193.000 | 69.214 | 5 | 189.000 | .000 |

At each step, the variable that minimizes the overall Wilks' Lambda is entered.

- Maximum number of steps is 22.
- Maximum significance of F to enter is .05.
- Minimum significance of F to remove is .10.
- F level, tolerance, or VIN insufficient for further computation.

Variables in the Analysis

| Step | | Tolerance | Sig. of F to Remove | Wilks' Lambda |
|------|----|-----------|---------------------|---------------|
| 1 | EA | 1.000 | .000 | |
| 2 | EA | .998 | .000 | .792 |
| | LP | .998 | .000 | .642 |
| 3 | EA | .992 | .000 | .522 |
| | LP | .797 | .000 | .544 |
| | DA | .797 | .000 | .537 |
| 4 | EA | .783 | .000 | .521 |
| | LP | .739 | .000 | .541 |
| | DA | .797 | .000 | .501 |
| | RP | .738 | .003 | .383 |
| 5 | EA | .780 | .000 | .505 |
| | LP | .724 | .000 | .533 |
| | DA | .792 | .000 | .469 |
| | RP | .738 | .003 | .370 |
| | RO | .948 | .013 | .365 |

Wilks' Lambda

| step | Number of variables | Lambda | Df1 | Df2 | Df3 |
|------|---------------------|--------|-----|-----|-----|
| 1 | 1 | 0.642 | 1 | 1 | 193 |
| 2 | 2 | 0.537 | 2 | 1 | 193 |
| 3 | 3 | 0.383 | 3 | 1 | 193 |
| 4 | 4 | 0.365 | 4 | 1 | 193 |
| 5 | 5 | 0.353 | 5 | 1 | 193 |

Wilks' Lambda

| Step | Exact F | | | |
|------|-----------|-----|--------|-----------|
| | Statistic | Df1 | Df2 | Sig. |
| 1 | 107.796 | 1 | 193.00 | 4.890E-20 |
| 2 | 82.614 | 2 | 192.00 | 0.00 |
| 3 | 102.587 | 3 | 191.00 | 1.340E-39 |
| 4 | 82.604 | 4 | 190.00 | 1.618E-40 |
| 5 | 69.214 | 5 | 189.00 | 7.220E-41 |

Summary of Canonical Discriminant Functions

Eigenvalues

| Function | Eigenvalue | % of Variance | Cumulative % | Canonical Correlation |
|----------|--------------------|---------------|--------------|-----------------------|
| 1 | 1.831 ^a | 100.0 | 100.0 | .804 |

a. First 1 canonical discriminant functions were used in the analysis.

Wilks' Lambda

| Test of Function(s) | Wilks' Lambda | Chi-square | df | Sig. |
|---------------------|---------------|------------|----|------|
| 1 | .353 | 198.245 | 5 | .000 |

Standardized Canonical Discriminant Function Coefficients

| | Function |
|----|----------|
| | 1 |
| LP | -.849 |
| DA | .694 |
| EA | .771 |
| RO | .230 |
| RP | .306 |

Structure Matrix

| | Function |
|-----------------|----------|
| | 1 |
| EA | .552 |
| LP | -.378 |
| DA | .366 |
| GP ^a | .337 |
| IL ^a | -.175 |
| RO | .148 |
| RP | -.116 |
| PB ^a | .095 |
| DE ^a | .048 |
| PM ^a | .044 |
| LD ^a | -.021 |

Pooled within-groups correlations between discriminating variables and standardized canonical discriminant functions

Variables ordered by absolute size of correlation within function.

- a. This variable not used in the analysis.

**Canonical
Discriminant Function
Coefficients**

| | Function |
|------------|----------|
| | 1 |
| LP | -.122 |
| DA | .050 |
| EA | .295 |
| RO | .032 |
| RP | .326 |
| (Constant) | -5.476 |

Unstandardized coefficients

Functions at Group Centroids

| Y | Function |
|------|----------|
| | 1 |
| .00 | -3.982 |
| 1.00 | .455 |

Unstandardized canonical discriminant functions evaluated at group means

Classification Statistics

Classification Processing Summary

| | | |
|----------------|--|-----|
| Processed | | 195 |
| Excluded | Missing or out-of-range group codes | 0 |
| | At least one missing discriminating variable | 0 |
| Used in Output | | 195 |

Prior Probabilities for Groups

| Y | Prior | Cases Used in Analysis | |
|-------|-------|------------------------|----------|
| | | Unweighted | Weighted |
| .00 | .500 | 20 | 20.000 |
| 1.00 | .500 | 175 | 175.000 |
| Total | 1.000 | 195 | 195.000 |

Classification Function Coefficients

| | Y | |
|------------|-----------|---------|
| | .00 | 1.00 |
| LP | 4.382E-02 | -.499 |
| DA | .276 | .500 |
| EA | .153 | 1.460 |
| RO | 9.578E-03 | .151 |
| RP | .125 | 1.573 |
| (Constant) | -8.608 | -25.080 |

Fisher's linear discriminant functions

Casewise Statistics

| Case No. | actual group | predicted group | Highest Group | | Second Highest group | | Discriminant scores | | F.1 | |
|------------|--------------|-----------------|-----------------|----|--|--|--|------|--------|------|
| | | | P(D>d/G=g) p | df | Squared Mahalanobis P(G=g/ distance to D=d) centroid group | Squared Mahalanobis P(G=g/ distance to D=d) centroid group | Squared Mahalanobis P(G=g/ distance to D=d) centroid group | | | |
| Original 1 | | | | | | | | | | |
| 1 | 1 | 1 | .721 | 1 | 1.000 | .127 | 0 | .000 | 16.650 | .098 |
| 2 | 1 | 1 | .709 | 1 | 1.000 | .139 | 0 | .000 | 16.522 | .083 |
| 3 | 1 | 1 | .819 | 1 | 1.000 | .052 | 0 | .000 | 21.767 | .683 |
| 4 | 1 | 1 | .960 | 1 | 1.000 | .003 | 0 | .000 | 19.246 | .405 |
| 5 | 1 | 1 | .804 | 1 | 1.000 | .061 | 0 | .000 | 21.948 | .703 |
| 6 | 1 | 1 | .983 | 1 | 1.000 | .000 | 0 | .000 | 19.883 | .477 |
| 7 | 1 | 1 | .916 | 1 | 1.000 | .011 | 0 | .000 | 18.764 | .350 |
| 8 | 1 | 1 | .770 | 1 | 1.000 | .086 | 0 | .000 | 17.179 | .163 |
| 9 | 1 | 1 | .904 | 1 | 1.000 | .015 | 0 | .000 | 18.629 | .334 |
| 10 | 1 | 1 | .761 | 1 | 1.000 | .093 | 0 | .000 | 17.080 | .151 |
| 11 | 1 | 1 | .781 | 1 | 1.000 | .077 | 0 | .000 | 17.301 | .177 |
| 12 | 1 | 1 | .916 | 1 | 1.000 | .011 | 0 | .000 | 20.636 | .560 |
| 13 | 1 | 1 | .954 | 1 | 1.000 | .003 | 0 | .000 | 19.181 | .397 |
| 14 | 1 | 1 | .811 | 1 | 1.000 | .057 | 0 | .000 | 17.622 | .216 |
| 15 | 1 | 1 | .213 | 1 | 1.000 | 1.548 | 0 | .000 | 32.278 | 1.69 |
| 16 | 1 | 1 | .701 | 1 | 1.000 | .148 | 0 | .000 | 16.427 | .071 |
| 17 | 1 | 1 | .858 | 1 | 1.000 | .032 | 0 | .000 | 18.129 | .276 |
| 18 | 1 | 1 | .963 | 1 | 1.000 | .002 | 0 | .000 | 20.106 | .502 |
| 19 | 1 | 1 | .835 | 1 | 1.000 | .043 | 0 | .000 | 21.576 | .663 |
| 20 | 1 | 1 | .569 | 1 | 1.000 | .325 | 0 | .000 | 25.073 | 1.02 |
| 21 | 1 | 1 | .003 | 1 | 1.000 | 9.098 | 0 | .000 | 55.555 | 3.47 |
| 22 | 1 | 1 | .897 | 1 | 1.000 | .017 | 0 | .000 | 20.851 | .584 |

| | | | | | | | | | | |
|----|---|---|------|---|-------|-------|---|------|--------|--------|
| 23 | 1 | 1 | .703 | 1 | 1.000 | .146 | 0 | .000 | 16.446 | .073 |
| 24 | 1 | 1 | .944 | 1 | 1.000 | .005 | 0 | .000 | 19.072 | .385 |
| 25 | 1 | 1 | .778 | 1 | 1.000 | .079 | 0 | .000 | 17.270 | .174 |
| 26 | 1 | 1 | .647 | 1 | 1.000 | .209 | 0 | .000 | 15.839 | -.002 |
| 27 | 1 | 1 | .808 | 1 | 1.000 | .059 | 0 | .000 | 21.908 | .698 |
| 28 | 1 | 1 | .944 | 1 | 1.000 | .005 | 0 | .000 | 20.318 | .525 |
| 29 | 1 | 1 | .885 | 1 | 1.000 | .021 | 0 | .000 | 18.422 | .31 |
| 30 | 1 | 1 | .026 | 1 | 1.000 | 4.951 | 0 | .000 | 44.388 | 2.68 |
| 31 | 1 | 1 | .725 | 1 | 1.000 | .124 | 0 | .000 | 16.689 | .10 |
| 32 | 1 | 1 | .940 | 1 | 1.000 | .006 | 0 | .000 | 19.027 | .38 |
| 33 | 1 | 1 | .901 | 1 | 1.000 | .016 | 0 | .000 | 20.812 | .58 |
| 34 | 1 | 1 | .803 | 1 | 1.000 | .062 | 0 | .000 | 21.962 | .70 |
| 35 | 1 | 1 | .376 | 1 | 1.000 | .783 | 0 | .000 | 28.323 | 1.34 |
| 36 | 1 | 1 | .791 | 1 | 1.000 | .070 | 0 | .000 | 22.106 | .72 |
| 37 | 1 | 1 | .690 | 1 | 1.000 | .159 | 0 | .000 | 16.308 | .05 |
| 38 | 1 | 1 | .981 | 1 | 1.000 | .001 | 0 | .000 | 19.903 | .47 |
| 39 | 1 | 1 | .960 | 1 | 1.000 | .003 | 0 | .000 | 19.247 | .40 |
| 40 | 1 | 1 | .546 | 1 | .999 | .365 | 0 | .001 | 14.694 | -1.149 |
| 41 | 1 | 1 | .893 | 1 | 1.000 | .018 | 0 | .000 | 18.512 | .32 |
| 42 | 1 | 1 | .842 | 1 | 1.000 | .040 | 0 | .000 | 21.493 | .65 |
| 43 | 1 | 1 | .636 | 1 | 1.000 | .223 | 0 | .000 | 15.717 | -.01 |
| 44 | 1 | 1 | .917 | 1 | 1.000 | .011 | 0 | .000 | 20.630 | .56 |
| 45 | 1 | 1 | .086 | 1 | 1.000 | 2.945 | 0 | .000 | 37.863 | 2.17 |
| 46 | 1 | 1 | .932 | 1 | 1.000 | .007 | 0 | .000 | 18.944 | .37 |
| 47 | 1 | 1 | .863 | 1 | 1.000 | .030 | 0 | .000 | 18.190 | .28 |
| 48 | 1 | 1 | .526 | 1 | 1.000 | .402 | 0 | .000 | 25.721 | 1.08 |
| 49 | 1 | 1 | .670 | 1 | 1.000 | .182 | 0 | .000 | 23.654 | .88 |
| 50 | 1 | 1 | .202 | 1 | 1.000 | 1.629 | 0 | .000 | 32.643 | 1.73 |
| 51 | 1 | 1 | .728 | 1 | 1.000 | .121 | 0 | .000 | 22.893 | .80 |
| 52 | 1 | 1 | .881 | 1 | 1.000 | .022 | 0 | .000 | 21.041 | .60 |

| | | | | | | | | | | |
|----|---|---|------|---|-------|-------|---|------|--------|-------|
| 53 | 1 | 1 | .986 | 1 | 1.000 | .000 | 0 | .000 | 19.842 | .472 |
| 54 | 1 | 1 | .767 | 1 | 1.000 | .088 | 0 | .000 | 17.142 | .158 |
| 55 | 1 | 1 | .914 | 1 | 1.000 | .012 | 0 | .000 | 18.742 | .347 |
| 56 | 1 | 1 | .842 | 1 | 1.000 | .039 | 0 | .000 | 17.965 | .256 |
| 57 | 1 | 1 | .988 | 1 | 1.000 | .000 | 0 | .000 | 19.553 | .440 |
| 58 | 1 | 1 | .765 | 1 | 1.000 | .090 | 0 | .000 | 17.123 | .156 |
| 59 | 1 | 1 | .882 | 1 | 1.000 | .022 | 0 | .000 | 21.027 | .603 |
| 60 | 1 | 1 | .169 | 1 | 1.000 | 1.893 | 0 | .000 | 33.792 | 1.83 |
| 61 | 1 | 1 | .943 | 1 | 1.000 | .005 | 0 | .000 | 20.329 | .527 |
| 62 | 1 | 1 | .857 | 1 | 1.000 | .033 | 0 | .000 | 21.325 | .636 |
| 63 | 1 | 1 | .560 | 1 | 1.000 | .340 | 0 | .000 | 25.207 | 1.03 |
| 64 | 1 | 1 | .734 | 1 | 1.000 | .115 | 0 | .000 | 22.819 | .795 |
| 65 | 1 | 1 | .250 | 1 | 1.000 | 1.325 | 0 | .000 | 31.232 | 1.60 |
| 66 | 1 | 1 | .795 | 1 | 1.000 | .068 | 0 | .000 | 22.064 | .715 |
| 67 | 1 | 1 | .902 | 1 | 1.000 | .015 | 0 | .000 | 20.793 | .578 |
| 68 | 1 | 1 | .981 | 1 | 1.000 | .001 | 0 | .000 | 19.478 | .431 |
| 69 | 1 | 1 | .798 | 1 | 1.000 | .066 | 0 | .000 | 17.480 | .199 |
| 70 | 1 | 1 | .478 | 1 | 1.000 | .503 | 0 | .000 | 26.489 | 1.16 |
| 71 | 1 | 1 | .970 | 1 | 1.000 | .001 | 0 | .000 | 20.022 | .492 |
| 72 | 1 | 1 | .889 | 1 | 1.000 | .019 | 0 | .000 | 18.474 | .316 |
| 73 | 1 | 1 | .587 | 1 | .999 | .295 | 0 | .001 | 15.168 | -.088 |
| 74 | 1 | 1 | .877 | 1 | 1.000 | .024 | 0 | .000 | 21.087 | .610 |
| 75 | 1 | 1 | .521 | 1 | 1.000 | .412 | 0 | .000 | 25.794 | 1.09 |
| 76 | 1 | 1 | .492 | 1 | 1.000 | .473 | 0 | .000 | 26.265 | 1.14 |
| 77 | 1 | 1 | .781 | 1 | 1.000 | .077 | 0 | .000 | 22.234 | .733 |
| 78 | 1 | 1 | .360 | 1 | 1.000 | .837 | 0 | .000 | 28.647 | 1.37 |
| 79 | 1 | 1 | .403 | 1 | 1.000 | .701 | 0 | .000 | 27.818 | 1.29 |
| 80 | 1 | 1 | .295 | 1 | 1.000 | 1.097 | 0 | .000 | 30.080 | 1.50 |
| 81 | 1 | 1 | .576 | 1 | 1.000 | .312 | 0 | .000 | 24.960 | 1.01 |
| 82 | 1 | 1 | .489 | 1 | 1.000 | .478 | 0 | .000 | 26.306 | 1.14 |

| | | | | | | | | | | |
|-----|---|---|------|---|-------|-------|---|------|--------|------|
| 83 | 1 | 1 | .798 | 1 | 1.000 | .066 | 0 | .000 | 22.030 | .711 |
| 84 | 1 | 1 | .832 | 1 | 1.000 | .045 | 0 | .000 | 17.857 | .244 |
| 85 | 1 | 1 | .502 | 1 | 1.000 | .451 | 0 | .000 | 26.102 | 1.12 |
| 86 | 1 | 1 | .983 | 1 | 1.000 | .000 | 0 | .000 | 19.880 | .476 |
| 87 | 1 | 1 | .847 | 1 | 1.000 | .037 | 0 | .000 | 21.438 | .648 |
| 88 | 1 | 1 | .788 | 1 | 1.000 | .072 | 0 | .000 | 22.142 | .723 |
| 89 | 1 | 1 | .695 | 1 | 1.000 | .154 | 0 | .000 | 16.364 | .063 |
| 90 | 1 | 1 | .935 | 1 | 1.000 | .007 | 0 | .000 | 18.968 | .373 |
| 91 | 1 | 1 | .511 | 1 | 1.000 | .433 | 0 | .000 | 25.961 | 1.11 |
| 92 | 1 | 1 | .825 | 1 | 1.000 | .049 | 0 | .000 | 21.704 | .677 |
| 93 | 1 | 1 | .267 | 1 | 1.000 | 1.231 | 0 | .000 | 30.768 | 1.56 |
| 94 | 1 | 1 | .505 | 1 | 1.000 | .445 | 0 | .000 | 26.053 | 1.12 |
| 95 | 1 | 1 | .624 | 1 | 1.000 | .241 | 0 | .000 | 24.282 | .946 |
| 96 | 1 | 1 | .655 | 1 | 1.000 | .199 | 0 | .000 | 23.850 | .902 |
| 97 | 1 | 1 | .192 | 1 | 1.000 | 1.698 | 0 | .000 | 32.953 | 1.75 |
| 98 | 1 | 1 | .702 | 1 | 1.000 | .146 | 0 | .000 | 23.232 | .838 |
| 99 | 1 | 1 | .764 | 1 | 1.000 | .090 | 0 | .000 | 17.116 | .155 |
| 100 | 1 | 1 | .606 | 1 | 1.000 | .266 | 0 | .000 | 24.530 | .971 |
| 101 | 1 | 1 | .856 | 1 | 1.000 | .033 | 0 | .000 | 18.108 | .273 |
| 102 | 1 | 1 | .765 | 1 | 1.000 | .089 | 0 | .000 | 17.131 | .157 |
| 103 | 1 | 1 | .936 | 1 | 1.000 | .006 | 0 | .000 | 20.407 | .535 |
| 104 | 1 | 1 | .768 | 1 | 1.000 | .087 | 0 | .000 | 17.154 | .160 |
| 105 | 1 | 1 | .882 | 1 | 1.000 | .022 | 0 | .000 | 18.395 | .307 |
| 106 | 1 | 1 | .438 | 1 | 1.000 | .603 | 0 | .000 | 27.182 | 1.23 |
| 107 | 1 | 1 | .792 | 1 | 1.000 | .069 | 0 | .000 | 22.098 | .719 |
| 108 | 1 | 1 | .299 | 1 | 1.000 | 1.079 | 0 | .000 | 29.985 | 1.49 |
| 109 | 1 | 1 | .633 | 1 | 1.000 | .228 | 0 | .000 | 24.158 | .933 |
| 110 | 1 | 1 | .738 | 1 | 1.000 | .112 | 0 | .000 | 22.773 | .790 |
| 111 | 1 | 1 | .722 | 1 | 1.000 | .126 | 0 | .000 | 22.969 | .810 |
| 112 | 1 | 1 | .142 | 1 | 1.000 | 2.154 | 0 | .000 | 34.867 | 1.92 |

| | | | | | | | | | | |
|-----|---|---|------|---|-------|-------|---|------|--------|-------|
| 113 | 1 | 1 | .882 | 1 | 1.000 | .022 | 0 | .000 | 21.028 | .603 |
| 114 | 1 | 1 | .906 | 1 | 1.000 | .014 | 0 | .000 | 20.753 | .573 |
| 115 | 1 | 1 | .744 | 1 | 1.000 | .107 | 0 | .000 | 22.698 | .782 |
| 116 | 1 | 1 | .893 | 1 | 1.000 | .018 | 0 | .000 | 20.907 | .590 |
| 117 | 1 | 1 | .725 | 1 | 1.000 | .123 | 0 | .000 | 16.696 | .104 |
| 118 | 1 | 1 | .821 | 1 | 1.000 | .051 | 0 | .000 | 17.728 | .228 |
| 119 | 1 | 1 | .913 | 1 | 1.000 | .012 | 0 | .000 | 18.728 | .345 |
| 120 | 1 | 1 | .431 | 1 | 1.000 | .620 | 0 | .000 | 27.299 | 1.24 |
| 121 | 1 | 1 | .429 | 1 | 1.000 | .626 | 0 | .000 | 27.334 | 1.24 |
| 122 | 1 | 1 | .699 | 1 | 1.000 | .149 | 0 | .000 | 23.265 | .841 |
| 123 | 1 | 1 | .220 | 1 | 1.000 | 1.507 | 0 | .000 | 32.092 | 1.68 |
| 124 | 1 | 1 | .745 | 1 | 1.000 | .106 | 0 | .000 | 22.679 | .780 |
| 125 | 1 | 1 | .592 | 1 | 1.000 | .287 | 0 | .000 | 24.733 | .991 |
| 126 | 1 | 1 | .765 | 1 | 1.000 | .089 | 0 | .000 | 22.429 | .754 |
| 127 | 1 | 1 | .217 | 1 | 1.000 | 1.521 | 0 | .000 | 32.155 | 1.68 |
| 128 | 1 | 1 | .947 | 1 | 1.000 | .004 | 0 | .000 | 19.106 | .389 |
| 129 | 1 | 1 | .281 | 1 | .994 | 1.161 | 0 | .006 | 11.287 | -.62 |
| 130 | 1 | 1 | .721 | 1 | 1.000 | .128 | 0 | .000 | 22.986 | .812 |
| 131 | 1 | 1 | .697 | 1 | 1.000 | .152 | 0 | .000 | 23.296 | .844 |
| 132 | 1 | 1 | .593 | 1 | 1.000 | .286 | 0 | .000 | 24.725 | .990 |
| 133 | 1 | 1 | .843 | 1 | 1.000 | .039 | 0 | .000 | 17.970 | .257 |
| 134 | 1 | 1 | .816 | 1 | 1.000 | .054 | 0 | .000 | 21.804 | .687 |
| 135 | 1 | 1 | .647 | 1 | 1.000 | .209 | 0 | .000 | 23.958 | .913 |
| 136 | 1 | 1 | .585 | 1 | .999 | .299 | 0 | .001 | 15.137 | -.09 |
| 137 | 1 | 1 | .390 | 1 | .998 | .739 | 0 | .002 | 12.799 | -.40 |
| 138 | 1 | 1 | .814 | 1 | 1.000 | .055 | 0 | .000 | 17.656 | .220 |
| 139 | 1 | 1 | .760 | 1 | 1.000 | .093 | 0 | .000 | 17.070 | .149 |
| 140 | 1 | 1 | .681 | 1 | 1.000 | .169 | 0 | .000 | 16.211 | .044 |
| 141 | 1 | 1 | .342 | 1 | .996 | .903 | 0 | .004 | 12.158 | -.49 |
| 142 | 0 | 0 | .280 | 1 | 1.000 | 1.166 | 1 | .000 | 30.439 | -5.06 |

| | | | | | | | | | | |
|-----|---|---|------|---|-------|-------|---|------|--------|-------|
| 143 | 0 | 0 | .341 | 1 | .996 | .908 | 1 | .004 | 12.141 | -3.02 |
| 144 | 0 | 0 | .772 | 1 | 1.000 | .084 | 1 | .000 | 22.339 | -4.27 |
| 145 | 0 | 0 | .115 | 1 | 1.000 | 2.483 | 1 | .000 | 36.157 | -5.55 |
| 146 | 1 | 1 | .116 | 1 | .946 | 2.471 | 0 | .054 | 8.210 | -1.11 |
| 147 | 1 | 1 | .588 | 1 | .999 | .293 | 0 | .001 | 15.180 | -.086 |
| 148 | 1 | 1 | .106 | 1 | .935 | 2.620 | 0 | .065 | 7.945 | -1.16 |
| 149 | 1 | 1 | .303 | 1 | .995 | 1.062 | 0 | .005 | 11.607 | -.575 |
| 150 | 1 | 1 | .110 | 1 | .940 | 2.550 | 0 | .060 | 8.067 | -1.14 |
| 151 | 1 | 1 | .667 | 1 | 1.000 | .185 | 0 | .000 | 16.058 | .025 |
| 152 | 1 | 1 | .279 | 1 | .994 | 1.174 | 0 | .006 | 11.247 | -.629 |
| 153 | 1 | 1 | .631 | 1 | 1.000 | .231 | 0 | .000 | 15.656 | -.025 |
| 154 | 1 | 1 | .628 | 1 | 1.000 | .235 | 0 | .000 | 15.623 | -.030 |
| 155 | 1 | 1 | .743 | 1 | 1.000 | .108 | 0 | .000 | 16.885 | .127 |
| 156 | 1 | 1 | .639 | 1 | 1.000 | .220 | 0 | .000 | 15.743 | -.014 |
| 157 | 0 | 0 | .135 | 1 | 1.000 | 2.231 | 1 | .000 | 35.176 | -5.47 |
| 158 | 0 | 0 | .209 | 1 | .986 | 1.575 | 1 | .014 | 10.126 | -2.72 |
| 159 | 0 | 0 | .135 | 1 | 1.000 | 2.231 | 1 | .000 | 35.176 | -5.47 |
| 160 | 0 | 0 | .512 | 1 | 1.000 | .431 | 1 | .000 | 25.945 | -4.63 |
| 161 | 1 | 1 | .558 | 1 | .999 | .343 | 0 | .001 | 14.834 | -.131 |
| 162 | 1 | 1 | .396 | 1 | .998 | .720 | 0 | .002 | 12.879 | -.393 |
| 163 | 0 | 0 | .419 | 1 | .998 | .653 | 1 | .002 | 13.170 | -3.17 |
| 164 | 0 | 1 | .027 | 1 | .503 | 4.912 | 0 | .497 | 4.933 | -1.76 |
| 165 | 0 | 1 | .511 | 1 | .999 | .432 | 0 | .001 | 14.287 | -.202 |
| 166 | 1 | 1 | .075 | 1 | .875 | 3.168 | 0 | .125 | 7.061 | -1.32 |
| 167 | 1 | 1 | .358 | 1 | .997 | .846 | 0 | .003 | 12.374 | -.465 |
| 168 | 1 | 1 | .564 | 1 | .999 | .332 | 0 | .001 | 14.908 | -.121 |
| 169 | 1 | 1 | .295 | 1 | 1.000 | 1.096 | 0 | .000 | 30.078 | 1.502 |
| 170 | 1 | 1 | .449 | 1 | .998 | .574 | 0 | .002 | 13.539 | -.303 |
| 171 | 1 | 1 | .091 | 1 | .912 | 2.864 | 0 | .088 | 7.534 | -1.23 |
| 172 | 0 | 0 | .135 | 1 | 1.000 | 2.231 | 1 | .000 | 35.176 | -5.47 |

| | | | | | | | | | | |
|-----------------|---|---|------|---|-------|-------|---|------|--------|-------|
| 173 | 0 | 0 | .438 | 1 | .998 | .601 | 1 | .002 | 13.410 | -3.20 |
| 174 | 0 | 0 | .135 | 1 | 1.000 | 2.231 | 1 | .000 | 35.176 | -5.47 |
| 175 | 0 | 0 | .266 | 1 | 1.000 | 1.235 | 1 | .000 | 30.786 | -5.09 |
| 176 | 1 | 1 | .652 | 1 | 1.000 | .204 | 0 | .000 | 15.885 | .003 |
| 177 | 1 | 0 | .027 | 1 | .514 | 4.867 | 1 | .486 | 4.978 | -1.77 |
| 178 | 1 | 0 | .952 | 1 | 1.000 | .004 | 1 | .000 | 20.222 | -4.04 |
| 179 | 0 | 1 | .965 | 1 | 1.000 | .002 | 0 | .000 | 20.077 | .499 |
| 180 | 1 | 1 | .210 | 1 | 1.000 | 1.571 | 0 | .000 | 32.381 | 1.708 |
| 181 | 1 | 1 | .606 | 1 | .999 | .267 | 0 | .001 | 15.374 | -.061 |
| 182 | 1 | 1 | .089 | 1 | .908 | 2.901 | 0 | .092 | 7.475 | -1.24 |
| 183 | 1 | 1 | .544 | 1 | .999 | .369 | 0 | .001 | 14.668 | -.152 |
| 184 | 1 | 1 | .392 | 1 | 1.000 | .731 | 0 | .000 | 28.010 | 1.310 |
| 185 | 1 | 1 | .604 | 1 | .999 | .270 | 0 | .001 | 15.351 | -.064 |
| 186 | 1 | 1 | .861 | 1 | 1.000 | .030 | 0 | .000 | 21.269 | .630 |
| 187 | 0 | 0 | .135 | 1 | 1.000 | 2.231 | 1 | .000 | 35.176 | -5.47 |
| 188 | 0 | 0 | .611 | 1 | .999 | .259 | 1 | .001 | 15.436 | -3.47 |
| 189 | 0 | 0 | .135 | 1 | 1.000 | 2.231 | 1 | .000 | 35.176 | -5.47 |
| 190 | 0 | 0 | .268 | 1 | 1.000 | 1.225 | 1 | .000 | 30.738 | -5.08 |
| 191 | 1 | 1 | .322 | 1 | .996 | .980 | 0 | .004 | 11.884 | -.535 |
| 192 | 1 | 1 | .786 | 1 | 1.000 | .074 | 0 | .000 | 22.173 | .727 |
| 193 | 1 | 0 | .826 | 1 | 1.000 | .048 | 1 | .000 | 21.689 | -4.20 |
| 194 | 1 | 1 | .478 | 1 | .999 | .503 | 0 | .001 | 13.900 | -.254 |
| 195 | 1 | 1 | .823 | 1 | 1.000 | .050 | 0 | .000 | 17.749 | .231 |
| Cross-validated | 1 | 1 | .989 | 5 | 1.000 | .579 | 1 | .000 | 17.013 | |
| | 2 | 1 | .839 | 5 | 1.000 | 2.076 | 1 | .000 | 18.330 | |
| | 3 | 1 | .994 | 5 | 1.000 | .435 | 1 | .000 | 22.043 | |
| | 4 | 1 | .973 | 5 | 1.000 | .866 | 1 | .000 | 19.999 | |
| | 5 | 1 | .999 | 5 | 1.000 | .167 | 1 | .000 | 21.946 | |
| | 6 | 1 | .972 | 5 | 1.000 | .872 | 1 | .000 | 20.643 | |
| | 7 | 1 | .886 | 5 | 1.000 | 1.723 | 1 | .000 | 20.352 | |

| | | | | | | | | | |
|----|---|---|------|---|-------|---------|---|------|---------|
| 8 | 1 | 1 | .993 | 5 | 1.000 | .463 | 1 | .000 | 17.465 |
| 9 | 1 | 1 | .840 | 5 | 1.000 | 2.062 | 1 | .000 | 20.547 |
| 10 | 1 | 1 | .980 | 5 | 1.000 | .753 | 1 | .000 | 17.643 |
| 11 | 1 | 1 | .977 | 5 | 1.000 | .796 | 1 | .000 | 17.919 |
| 12 | 1 | 1 | .972 | 5 | 1.000 | .882 | 1 | .000 | 21.395 |
| 13 | 1 | 1 | .995 | 5 | 1.000 | .401 | 1 | .000 | 19.474 |
| 14 | 1 | 1 | .977 | 5 | 1.000 | .795 | 1 | .000 | 18.257 |
| 15 | 1 | 1 | .003 | 5 | 1.000 | 17.702 | 1 | .000 | 49.251 |
| 16 | 1 | 1 | .959 | 5 | 1.000 | 1.045 | 1 | .000 | 17.225 |
| 17 | 1 | 1 | .821 | 5 | 1.000 | 2.202 | 1 | .000 | 20.165 |
| 18 | 1 | 1 | .974 | 5 | 1.000 | .841 | 1 | .000 | 20.833 |
| 19 | 1 | 1 | .987 | 5 | 1.000 | .615 | 1 | .000 | 22.040 |
| 20 | 1 | 1 | .985 | 5 | 1.000 | .664 | 1 | .000 | 25.327 |
| 21 | 1 | 1 | .000 | 5 | 1.000 | 388.553 | 1 | .000 | 486.721 |
| 22 | 1 | 1 | .825 | 5 | 1.000 | 2.169 | 1 | .000 | 22.885 |
| 23 | 1 | 1 | .991 | 5 | 1.000 | .518 | 1 | .000 | 16.733 |
| 24 | 1 | 1 | .939 | 5 | 1.000 | 1.264 | 1 | .000 | 20.214 |
| 25 | 1 | 1 | .959 | 5 | 1.000 | 1.039 | 1 | .000 | 18.123 |
| 26 | 1 | 1 | .987 | 5 | 1.000 | .614 | 1 | .000 | 16.164 |
| 27 | 1 | 1 | .943 | 5 | 1.000 | 1.222 | 1 | .000 | 22.964 |
| 28 | 1 | 1 | .998 | 5 | 1.000 | .266 | 1 | .000 | 20.472 |
| 29 | 1 | 1 | .954 | 5 | 1.000 | 1.097 | 1 | .000 | 19.385 |
| 30 | 1 | 1 | .103 | 5 | 1.000 | 9.151 | 1 | .000 | 49.739 |
| 31 | 1 | 1 | .989 | 5 | 1.000 | .571 | 1 | .000 | 17.048 |
| 32 | 1 | 1 | .900 | 5 | 1.000 | 1.611 | 1 | .000 | 20.511 |
| 33 | 1 | 1 | .991 | 5 | 1.000 | .539 | 1 | .000 | 21.225 |
| 34 | 1 | 1 | .998 | 5 | 1.000 | .264 | 1 | .000 | 22.057 |
| 35 | 1 | 1 | .958 | 5 | 1.000 | 1.058 | 1 | .000 | 28.567 |
| 36 | 1 | 1 | .994 | 5 | 1.000 | .433 | 1 | .000 | 22.362 |
| 37 | 1 | 1 | .814 | 5 | 1.000 | 2.244 | 1 | .000 | 18.259 |

| | | | | | | | | | |
|----|---|---|-------|---|-------|-------|---|------|--------|
| 38 | 1 | 1 | .996 | 5 | 1.000 | .368 | 1 | .000 | 20.163 |
| 39 | 1 | 1 | .987 | 5 | 1.000 | .623 | 1 | .000 | 19.760 |
| 40 | 1 | 1 | .980 | 5 | .999 | .758 | 1 | .001 | 15.021 |
| 41 | 1 | 1 | 1.000 | 5 | 1.000 | .146 | 1 | .000 | 18.544 |
| 42 | 1 | 1 | .889 | 5 | 1.000 | 1.696 | 1 | .000 | 23.038 |
| 43 | 1 | 1 | .915 | 5 | 1.000 | 1.485 | 1 | .000 | 16.872 |
| 44 | 1 | 1 | .980 | 5 | 1.000 | .757 | 1 | .000 | 21.266 |
| 45 | 1 | 1 | .488 | 5 | 1.000 | 4.443 | 1 | .000 | 39.785 |
| 46 | 1 | 1 | .999 | 5 | 1.000 | .186 | 1 | .000 | 19.023 |
| 47 | 1 | 1 | .777 | 5 | 1.000 | 2.494 | 1 | .000 | 20.515 |
| 48 | 1 | 1 | .986 | 5 | 1.000 | .647 | 1 | .000 | 25.887 |
| 49 | 1 | 1 | .998 | 5 | 1.000 | .254 | 1 | .000 | 23.625 |
| 50 | 1 | 1 | .876 | 5 | 1.000 | 1.803 | 1 | .000 | 32.910 |
| 51 | 1 | 1 | .976 | 5 | 1.000 | .811 | 1 | .000 | 23.482 |
| 52 | 1 | 1 | .972 | 5 | 1.000 | .870 | 1 | .000 | 21.778 |
| 53 | 1 | 1 | .996 | 5 | 1.000 | .364 | 1 | .000 | 20.099 |
| 54 | 1 | 1 | .914 | 5 | 1.000 | 1.489 | 1 | .000 | 18.427 |
| 55 | 1 | 1 | .999 | 5 | 1.000 | .200 | 1 | .000 | 18.831 |
| 56 | 1 | 1 | .999 | 5 | 1.000 | .189 | 1 | .000 | 18.022 |
| 57 | 1 | 1 | .923 | 5 | 1.000 | 1.408 | 1 | .000 | 20.843 |
| 58 | 1 | 1 | .895 | 5 | 1.000 | 1.651 | 1 | .000 | 18.564 |
| 59 | 1 | 1 | .958 | 5 | 1.000 | 1.052 | 1 | .000 | 21.946 |
| 60 | 1 | 1 | .813 | 5 | 1.000 | 2.254 | 1 | .000 | 34.299 |
| 61 | 1 | 1 | 1.000 | 5 | 1.000 | .067 | 1 | .000 | 20.285 |
| 62 | 1 | 1 | .851 | 5 | 1.000 | 1.985 | 1 | .000 | 23.164 |
| 63 | 1 | 1 | .990 | 5 | 1.000 | .560 | 1 | .000 | 25.341 |
| 64 | 1 | 1 | .998 | 5 | 1.000 | .301 | 1 | .000 | 22.901 |
| 65 | 1 | 1 | .910 | 5 | 1.000 | 1.523 | 1 | .000 | 31.474 |
| 66 | 1 | 1 | .978 | 5 | 1.000 | .791 | 1 | .000 | 22.681 |
| 67 | 1 | 1 | .986 | 5 | 1.000 | .652 | 1 | .000 | 21.320 |

| | | | | | | | | | |
|----|---|---|-------|---|-------|-------|---|------|--------|
| 68 | 1 | 1 | .997 | 5 | 1.000 | .344 | 1 | .000 | 19.717 |
| 69 | 1 | 1 | .973 | 5 | 1.000 | .866 | 1 | .000 | 18.177 |
| 70 | 1 | 1 | .960 | 5 | 1.000 | 1.030 | 1 | .000 | 26.954 |
| 71 | 1 | 1 | .909 | 5 | 1.000 | 1.532 | 1 | .000 | 21.434 |
| 72 | 1 | 1 | .969 | 5 | 1.000 | .918 | 1 | .000 | 19.263 |
| 73 | 1 | 1 | .952 | 5 | .999 | 1.123 | 1 | .001 | 15.908 |
| 74 | 1 | 1 | .998 | 5 | 1.000 | .250 | 1 | .000 | 21.205 |
| 75 | 1 | 1 | .982 | 5 | 1.000 | .717 | 1 | .000 | 26.023 |
| 76 | 1 | 1 | .982 | 5 | 1.000 | .718 | 1 | .000 | 26.439 |
| 77 | 1 | 1 | .913 | 5 | 1.000 | 1.499 | 1 | .000 | 23.551 |
| 78 | 1 | 1 | .972 | 5 | 1.000 | .877 | 1 | .000 | 28.656 |
| 79 | 1 | 1 | .982 | 5 | 1.000 | .716 | 1 | .000 | 27.784 |
| 80 | 1 | 1 | .933 | 5 | 1.000 | 1.320 | 1 | .000 | 30.314 |
| 81 | 1 | 1 | .996 | 5 | 1.000 | .389 | 1 | .000 | 24.946 |
| 82 | 1 | 1 | .975 | 5 | 1.000 | .834 | 1 | .000 | 26.594 |
| 83 | 1 | 1 | .998 | 5 | 1.000 | .253 | 1 | .000 | 22.110 |
| 84 | 1 | 1 | .898 | 5 | 1.000 | 1.626 | 1 | .000 | 19.316 |
| 85 | 1 | 1 | .993 | 5 | 1.000 | .489 | 1 | .000 | 26.063 |
| 86 | 1 | 1 | .972 | 5 | 1.000 | .877 | 1 | .000 | 20.644 |
| 87 | 1 | 1 | .996 | 5 | 1.000 | .392 | 1 | .000 | 21.685 |
| 88 | 1 | 1 | 1.000 | 5 | 1.000 | .153 | 1 | .000 | 22.116 |
| 89 | 1 | 1 | .992 | 5 | 1.000 | .495 | 1 | .000 | 16.622 |
| 90 | 1 | 1 | .967 | 5 | 1.000 | .941 | 1 | .000 | 19.790 |
| 91 | 1 | 1 | .966 | 5 | 1.000 | .961 | 1 | .000 | 26.419 |
| 92 | 1 | 1 | .982 | 5 | 1.000 | .725 | 1 | .000 | 22.273 |
| 93 | 1 | 1 | .922 | 5 | 1.000 | 1.420 | 1 | .000 | 30.986 |
| 94 | 1 | 1 | .981 | 5 | 1.000 | .735 | 1 | .000 | 26.270 |
| 95 | 1 | 1 | .982 | 5 | 1.000 | .711 | 1 | .000 | 24.661 |
| 96 | 1 | 1 | .994 | 5 | 1.000 | .456 | 1 | .000 | 24.009 |
| 97 | 1 | 1 | .682 | 5 | 1.000 | 3.117 | 1 | .000 | 34.536 |

| | | | | | | | | | |
|-----|---|---|-------|---|-------|-------|---|------|--------|
| 98 | 1 | 1 | .994 | 5 | 1.000 | .436 | 1 | .000 | 23.420 |
| 99 | 1 | 1 | .934 | 5 | 1.000 | 1.309 | 1 | .000 | 18.223 |
| 100 | 1 | 1 | .981 | 5 | 1.000 | .735 | 1 | .000 | 24.910 |
| 101 | 1 | 1 | .972 | 5 | 1.000 | .875 | 1 | .000 | 18.843 |
| 102 | 1 | 1 | .989 | 5 | 1.000 | .584 | 1 | .000 | 17.532 |
| 103 | 1 | 1 | .994 | 5 | 1.000 | .432 | 1 | .000 | 20.724 |
| 104 | 1 | 1 | .990 | 5 | 1.000 | .560 | 1 | .000 | 17.534 |
| 105 | 1 | 1 | .992 | 5 | 1.000 | .506 | 1 | .000 | 18.777 |
| 106 | 1 | 1 | .960 | 5 | 1.000 | 1.029 | 1 | .000 | 27.557 |
| 107 | 1 | 1 | .998 | 5 | 1.000 | .307 | 1 | .000 | 22.228 |
| 108 | 1 | 1 | .944 | 5 | 1.000 | 1.214 | 1 | .000 | 30.125 |
| 109 | 1 | 1 | .997 | 5 | 1.000 | .310 | 1 | .000 | 24.142 |
| 110 | 1 | 1 | .961 | 5 | 1.000 | 1.017 | 1 | .000 | 23.576 |
| 111 | 1 | 1 | .999 | 5 | 1.000 | .186 | 1 | .000 | 22.924 |
| 112 | 1 | 1 | .447 | 5 | 1.000 | 4.752 | 1 | .000 | 37.786 |
| 113 | 1 | 1 | 1.000 | 5 | 1.000 | .129 | 1 | .000 | 21.028 |
| 114 | 1 | 1 | .977 | 5 | 1.000 | .800 | 1 | .000 | 21.429 |
| 115 | 1 | 1 | .998 | 5 | 1.000 | .261 | 1 | .000 | 22.747 |
| 116 | 1 | 1 | 1.000 | 5 | 1.000 | .126 | 1 | .000 | 20.907 |
| 117 | 1 | 1 | .977 | 5 | 1.000 | .804 | 1 | .000 | 17.281 |
| 118 | 1 | 1 | .985 | 5 | 1.000 | .663 | 1 | .000 | 18.238 |
| 119 | 1 | 1 | .999 | 5 | 1.000 | .226 | 1 | .000 | 18.842 |
| 120 | 1 | 1 | .896 | 5 | 1.000 | 1.639 | 1 | .000 | 28.284 |
| 121 | 1 | 1 | .934 | 5 | 1.000 | 1.307 | 1 | .000 | 27.974 |
| 122 | 1 | 1 | .981 | 5 | 1.000 | .727 | 1 | .000 | 23.743 |
| 123 | 1 | 1 | .865 | 5 | 1.000 | 1.886 | 1 | .000 | 32.552 |
| 124 | 1 | 1 | .999 | 5 | 1.000 | .240 | 1 | .000 | 22.708 |
| 125 | 1 | 1 | .984 | 5 | 1.000 | .672 | 1 | .000 | 25.029 |
| 126 | 1 | 1 | .996 | 5 | 1.000 | .379 | 1 | .000 | 22.613 |
| 127 | 1 | 1 | .695 | 5 | 1.000 | 3.033 | 1 | .000 | 33.803 |

| | | | | | | | | | |
|-----|---|---|-------|---|-------|--------|---|------|--------|
| 128 | 1 | 1 | 1.000 | 5 | 1.000 | .157 | 1 | .000 | 19.158 |
| 129 | 1 | 1 | .198 | 5 | .992 | 7.318 | 1 | .008 | 17.071 |
| 130 | 1 | 1 | .997 | 5 | 1.000 | .334 | 1 | .000 | 23.089 |
| 131 | 1 | 1 | .955 | 5 | 1.000 | 1.087 | 1 | .000 | 24.134 |
| 132 | 1 | 1 | .839 | 5 | 1.000 | 2.074 | 1 | .000 | 26.443 |
| 133 | 1 | 1 | .997 | 5 | 1.000 | .311 | 1 | .000 | 18.146 |
| 134 | 1 | 1 | .999 | 5 | 1.000 | .206 | 1 | .000 | 21.849 |
| 135 | 1 | 1 | .983 | 5 | 1.000 | .705 | 1 | .000 | 24.359 |
| 136 | 1 | 1 | .922 | 5 | .999 | 1.420 | 1 | .001 | 16.160 |
| 137 | 1 | 1 | .971 | 5 | .998 | .887 | 1 | .002 | 12.916 |
| 138 | 1 | 1 | .999 | 5 | 1.000 | .193 | 1 | .000 | 17.703 |
| 139 | 1 | 1 | .999 | 5 | 1.000 | .223 | 1 | .000 | 17.115 |
| 140 | 1 | 1 | .990 | 5 | 1.000 | .561 | 1 | .000 | 16.521 |
| 141 | 1 | 1 | .953 | 5 | .996 | 1.112 | 1 | .004 | 12.341 |
| 142 | 0 | 0 | .817 | 5 | 1.000 | 2.224 | 2 | .000 | 31.360 |
| 143 | 0 | 0 | .781 | 5 | .996 | 2.468 | 2 | .004 | 13.398 |
| 144 | 0 | 0 | .732 | 5 | 1.000 | 2.794 | 2 | .000 | 24.706 |
| 145 | 0 | 0 | .132 | 5 | 1.000 | 8.464 | 2 | .000 | 41.998 |
| 146 | 1 | 1 | .454 | 5 | .942 | 4.700 | 1 | .058 | 10.276 |
| 147 | 1 | 1 | .980 | 5 | .999 | .760 | 1 | .001 | 15.573 |
| 148 | 1 | 1 | .723 | 5 | .935 | 2.849 | 1 | .065 | 8.175 |
| 149 | 1 | 1 | .908 | 5 | .995 | 1.539 | 1 | .005 | 12.050 |
| 150 | 1 | 1 | .432 | 5 | .935 | 4.866 | 1 | .065 | 10.211 |
| 151 | 1 | 1 | .825 | 5 | 1.000 | 2.170 | 1 | .000 | 17.912 |
| 152 | 1 | 1 | .490 | 5 | .993 | 4.422 | 1 | .007 | 14.296 |
| 153 | 1 | 1 | .888 | 5 | 1.000 | 1.704 | 1 | .000 | 17.016 |
| 154 | 1 | 1 | .953 | 5 | 1.000 | 1.117 | 1 | .000 | 16.412 |
| 155 | 1 | 1 | .969 | 5 | 1.000 | .916 | 1 | .000 | 17.594 |
| 156 | 1 | 1 | .991 | 5 | 1.000 | .518 | 1 | .000 | 15.966 |
| 157 | 0 | 0 | .002 | 5 | 1.000 | 19.097 | 2 | .000 | 51.516 |

| | | | | | | | | | |
|-----|---|---|------|---|-------|--------|---|------|--------|
| 158 | 0 | 0 | .281 | 5 | .979 | 6.271 | 2 | .021 | 13.996 |
| 159 | 0 | 0 | .002 | 5 | 1.000 | 19.097 | 2 | .000 | 51.516 |
| 160 | 0 | 0 | .000 | 5 | 1.000 | 30.855 | 2 | .000 | 54.166 |
| 161 | 1 | 1 | .988 | 5 | .999 | .606 | 1 | .001 | 15.034 |
| 162 | 1 | 1 | .818 | 5 | .998 | 2.223 | 1 | .002 | 14.282 |
| 163 | 0 | 0 | .093 | 5 | .996 | 9.427 | 2 | .004 | 20.700 |
| 164 | 0 | 1 | .198 | 5 | .635 | 7.316 | 1 | .365 | 8.428 |
| 165 | 0 | 1 | .000 | 5 | 1.000 | 47.409 | 1 | .000 | 80.095 |
| 166 | 1 | 1 | .019 | 5 | .815 | 13.454 | 1 | .185 | 16.424 |
| 167 | 1 | 1 | .009 | 5 | .995 | 15.437 | 1 | .005 | 26.174 |
| 168 | 1 | 1 | .857 | 5 | .999 | 1.940 | 1 | .001 | 16.401 |
| 169 | 1 | 1 | .679 | 5 | 1.000 | 3.137 | 1 | .000 | 32.197 |
| 170 | 1 | 1 | .952 | 5 | .998 | 1.122 | 1 | .002 | 14.027 |
| 171 | 1 | 1 | .546 | 5 | .908 | 4.023 | 1 | .092 | 8.610 |
| 172 | 0 | 0 | .002 | 5 | 1.000 | 19.097 | 2 | .000 | 51.516 |
| 173 | 0 | 0 | .376 | 5 | .998 | 5.342 | 2 | .002 | 17.449 |
| 174 | 0 | 0 | .002 | 5 | 1.000 | 19.097 | 2 | .000 | 51.516 |
| 175 | 0 | 0 | .000 | 5 | 1.000 | 27.975 | 2 | .000 | 56.153 |
| 176 | 1 | 1 | .495 | 5 | 1.000 | 4.391 | 1 | .000 | 19.872 |
| 177 | 1 | 0 | .160 | 5 | .567 | 7.935 | 2 | .433 | 8.475 |
| 178 | 1 | 0 | .000 | 5 | 1.000 | 25.224 | 2 | .000 | 54.520 |
| 179 | 0 | 1 | .898 | 5 | 1.000 | 1.624 | 1 | .000 | 27.113 |
| 180 | 1 | 1 | .000 | 5 | 1.000 | 1260 | 1 | .000 | 1350.3 |
| 181 | 1 | 1 | .513 | 5 | .999 | 4.260 | 1 | .001 | 19.167 |
| 182 | 1 | 1 | .023 | 5 | .864 | 13.085 | 1 | .136 | 16.784 |
| 183 | 1 | 1 | .524 | 5 | .999 | 4.182 | 1 | .001 | 18.281 |
| 184 | 1 | 1 | .511 | 5 | 1.000 | 4.274 | 1 | .000 | 31.606 |
| 185 | 1 | 1 | .731 | 5 | .999 | 2.800 | 1 | .001 | 17.732 |
| 186 | 1 | 1 | .126 | 5 | 1.000 | 8.607 | 1 | .000 | 29.710 |
| 187 | 0 | 0 | .002 | 5 | 1.000 | 19.097 | 2 | .000 | 51.516 |

| | | | | | | | | | |
|-----|---|---|------|---|-------|--------|---|------|--------|
| 188 | 0 | 0 | .091 | 5 | .999 | 9.481 | 2 | .001 | 23.474 |
| 189 | 0 | 0 | .002 | 5 | 1.000 | 19.097 | 2 | .000 | 51.516 |
| 190 | 0 | 0 | .000 | 5 | 1.000 | 30.470 | 2 | .000 | 58.483 |
| 191 | 1 | 1 | .206 | 5 | .995 | 7.204 | 1 | .005 | 17.747 |
| 192 | 1 | 1 | .002 | 5 | 1.000 | 18.403 | 1 | .000 | 40.415 |
| 193 | 1 | 0 | .000 | 5 | 1.000 | 27.531 | 2 | .000 | 59.513 |
| 194 | 1 | 1 | .925 | 5 | .999 | 1.398 | 1 | .001 | 14.716 |
| 195 | 1 | 1 | .992 | 5 | 1.000 | .491 | 1 | .000 | 18.093 |

For the original data, squared Mahalanobis distance is based on canonical functions.

For the cross-validated data, squared Mahalanobis distance is based on observations.

** Misclassified case a Cross validation is done only for those cases in the analysis.

In cross validation, each case is classified by the functions derived from all cases other than that case.

Classification Results^{b,c}

| | | Y | Predicted Group Membership | | Total |
|------------------------------|-------|------|----------------------------|------|-------|
| | | | .00 | 1.00 | |
| Original | Count | .00 | 17 | 3 | 20 |
| | | 1.00 | 3 | 172 | 175 |
| | % | .00 | 85.0 | 15.0 | 100.0 |
| | | 1.00 | 1.7 | 98.3 | 100.0 |
| Cross-validated ^a | Count | .00 | 17 | 3 | 20 |
| | | 1.00 | 3 | 172 | 175 |
| | % | .00 | 85.0 | 15.0 | 100.0 |
| | | 1.00 | 1.7 | 98.3 | 100.0 |

a. Cross validation is done only for those cases in the analysis. In cross validation, each case is classified by the functions derived from all cases other than that case.

b. 96.9% of original grouped cases correctly classified.

c. 96.9% of cross-validated grouped cases correctly classified.

ประวัติผู้เขียน

| | |
|------------------|--|
| ชื่อ | นายวรการ ชูวีระ |
| วัน เดือน ปีเกิด | 25 มกราคม 2510 |
| ประวัติการศึกษา | ระดับประถมศึกษา โรงเรียนมงฟอร์ตวิทยาลัย ระดับมัธยมศึกษา โรงเรียนมงฟอร์ตวิทยาลัย ระดับอุดมศึกษา บรบ. มหาวิทยาลัยเชียงใหม่ บธม. มหาวิทยาลัยแม่โจ้ |
| ประวัติการทำงาน | พ.ศ. 2533 – 2535 บริษัทผู้จัดการ จำกัด(มหาชน) พ.ศ. 2536 – 2543 ธนาคารไทยพาณิชย์ จำกัด(มหาชน) พ.ศ. 2544 – ปัจจุบัน ห้างหุ้นส่วนจำกัดเกรียงไกรผลไม้ |