

ภาคผนวก ก

ข้อมูลที่ใช้ในการวิเคราะห์ประสิทธิภาพทางเศรษฐกิจในการผลิตลำไยนอกฤดูของชาวสวนลำไย

จังหวัดลำพูน ปีการเพาะปลูก 2543/2544

| ตัวอย่างที่ | P | lnP | Pk | lnPk | PcXc | lnPcXc | LH | lnLH | Fc | lnFc |
|-------------|--------|-------|-----|------|------|--------|--------|------|---------|------|
| 1 | 59850 | 10.99 | 100 | 4.61 | 500 | 6.21 | 30.00 | 3.40 | 2073.33 | 7.64 |
| 2 | 45226 | 10.72 | 100 | 4.61 | 450 | 6.11 | 2.71 | 1.00 | 120.00 | 4.79 |
| 3 | 50769 | 10.84 | 100 | 4.61 | 1500 | 7.31 | 64.00 | 4.16 | 830.26 | 6.72 |
| 4 | 59340 | 10.99 | 90 | 4.50 | 1500 | 7.31 | 128.00 | 4.85 | 2830.00 | 7.95 |
| 5 | 49529 | 10.81 | 90 | 4.50 | 450 | 6.11 | 55.00 | 4.01 | 470.00 | 6.15 |
| 6 | 67008 | 11.11 | 120 | 4.79 | 450 | 6.11 | 12.86 | 2.55 | 503.32 | 6.22 |
| 7 | 159248 | 11.98 | 70 | 4.25 | 1500 | 7.31 | 61.40 | 4.12 | 232.78 | 5.45 |
| 8 | 26052 | 10.17 | 100 | 4.61 | 450 | 6.11 | 186.00 | 5.23 | 1153.33 | 7.05 |
| 9 | 47640 | 10.77 | 120 | 4.79 | 450 | 6.11 | 70.50 | 4.26 | 561.11 | 6.33 |
| 10 | 35594 | 10.48 | 100 | 4.61 | 1200 | 7.09 | 25.00 | 3.22 | 1532.83 | 7.33 |
| 11 | 106741 | 11.58 | 95 | 4.55 | 1500 | 7.31 | 2.86 | 1.05 | 1110.11 | 7.01 |
| 12 | 102349 | 11.54 | 90 | 4.50 | 450 | 6.11 | 7.50 | 2.01 | 1665.00 | 7.42 |
| 13 | 64591 | 11.08 | 110 | 4.70 | 1500 | 7.31 | 7.00 | 1.95 | 224.52 | 5.41 |
| 14 | 21558 | 9.98 | 60 | 4.09 | 1200 | 7.09 | 12.36 | 2.51 | 600.86 | 6.40 |
| 15 | 32768 | 10.40 | 100 | 4.61 | 450 | 6.11 | 4.47 | 1.50 | 309.56 | 5.74 |
| 16 | 117061 | 11.67 | 100 | 4.61 | 1500 | 7.31 | 6.60 | 1.89 | 463.06 | 6.14 |
| 17 | 67064 | 11.11 | 60 | 4.09 | 1500 | 7.31 | 16.40 | 2.80 | 448.17 | 6.11 |
| 18 | 128216 | 11.76 | 100 | 4.61 | 1500 | 7.31 | 8.17 | 2.10 | 635.00 | 6.45 |
| 19 | 97874 | 11.49 | 100 | 4.61 | 1200 | 7.09 | 6.84 | 1.92 | 1163.33 | 7.06 |
| 20 | 93274 | 11.44 | 80 | 4.38 | 1500 | 7.31 | 3.19 | 1.16 | 901.11 | 6.80 |
| 21 | 57223 | 10.95 | 75 | 4.32 | 1500 | 7.31 | 6.50 | 1.87 | 348.33 | 5.85 |
| 22 | 51792 | 10.85 | 100 | 4.61 | 1200 | 7.09 | 363.11 | 5.89 | 3568.06 | 8.18 |
| 23 | 79030 | 11.28 | 168 | 5.12 | 1500 | 7.31 | 45.00 | 3.81 | 836.11 | 6.73 |
| 24 | 82525 | 11.32 | 72 | 4.28 | 1500 | 7.31 | 26.00 | 3.26 | 606.83 | 6.41 |
| 25 | 40218 | 10.60 | 130 | 4.87 | 1200 | 7.09 | 54.75 | 4.00 | 760.50 | 6.63 |

ภาคผนวก ก (ต่อ) ข้อมูลที่ใช้ในการวิเคราะห์ประสิทธิภาพทางเศรษฐกิจในการผลิตลำไยออกฤดู
ของชาวสวนลำไยจังหวัดลำพูน ปีการเพาะปลูก 2543/2544

| ตัวอย่างที่ | P | lnP | Pk | lnPk | PcXc | lnPcXc | LH | LnLH | Fc | LnFc |
|-------------|--------|-------|-----|------|------|--------|---------|------|---------|------|
| 26 | 110996 | 11.62 | 90 | 4.50 | 450 | 6.11 | 54.50 | 4.00 | 1199.17 | 7.09 |
| 27 | 107075 | 11.58 | 160 | 5.08 | 1500 | 7.31 | 6.71 | 1.90 | 2406.41 | 7.79 |
| 28 | 86947 | 11.37 | 95 | 4.55 | 1200 | 7.09 | 108.00 | 4.68 | 305.67 | 5.72 |
| 29 | 40370 | 10.61 | 115 | 4.74 | 1200 | 7.09 | 133.00 | 4.89 | 1291.36 | 7.16 |
| 30 | 24929 | 10.12 | 70 | 4.25 | 1200 | 7.09 | 111.86 | 4.72 | 148.00 | 5.00 |
| 31 | 57204 | 10.95 | 75 | 4.32 | 450 | 6.11 | 130.50 | 4.87 | 867.50 | 6.77 |
| 32 | 34230 | 10.44 | 80 | 4.38 | 1500 | 7.31 | 475.00 | 6.16 | 711.67 | 6.57 |
| 33 | 67359 | 11.12 | 110 | 4.70 | 1200 | 7.09 | 70.71 | 4.26 | 1339.94 | 7.20 |
| 34 | 34171 | 10.44 | 112 | 4.72 | 2000 | 7.60 | 156.00 | 5.05 | 449.83 | 6.11 |
| 35 | 18167 | 9.81 | 112 | 4.72 | 2000 | 7.60 | 88.00 | 4.48 | 506.67 | 6.23 |
| 36 | 2892 | 7.97 | 84 | 4.43 | 1500 | 7.31 | 3660.00 | 8.21 | 533.28 | 6.28 |
| 37 | 57700 | 10.96 | 100 | 4.61 | 450 | 6.11 | 201.00 | 5.30 | 343.33 | 5.84 |
| 38 | 84390 | 11.34 | 100 | 4.61 | 450 | 6.11 | 24.00 | 3.18 | 185.00 | 5.22 |
| 39 | 13412 | 9.50 | 100 | 4.61 | 1200 | 7.09 | 354.00 | 5.87 | 1640.00 | 7.40 |
| 40 | 17450 | 9.77 | 134 | 4.90 | 450 | 6.11 | 17.67 | 2.87 | 231.11 | 5.44 |
| 41 | 15720 | 9.66 | 100 | 4.61 | 1200 | 7.09 | 88.50 | 4.48 | 357.50 | 5.88 |
| 42 | 48050 | 10.78 | 190 | 5.25 | 1200 | 7.09 | 53.33 | 3.98 | 340.00 | 5.83 |
| 43 | 38792 | 10.57 | 74 | 4.30 | 1500 | 7.31 | 113.75 | 4.73 | 740.56 | 6.61 |
| 44 | 29180 | 10.28 | 120 | 4.79 | 1200 | 7.09 | 100.50 | 4.61 | 706.67 | 6.56 |
| 45 | 24581 | 10.11 | 70 | 4.25 | 1200 | 7.09 | 54.67 | 4.00 | 582.72 | 6.37 |
| 46 | 24198 | 10.09 | 76 | 4.33 | 1500 | 7.31 | 318.00 | 5.76 | 530.00 | 6.27 |
| 47 | 80650 | 11.30 | 70 | 4.25 | 1500 | 7.31 | 82.86 | 4.42 | 2206.42 | 7.70 |
| 48 | 72418 | 11.19 | 95 | 4.55 | 2000 | 7.60 | 260.00 | 5.56 | 461.72 | 6.13 |
| 49 | 10986 | 9.30 | 70 | 4.25 | 1200 | 7.09 | 29.00 | 3.37 | 1589.17 | 7.37 |
| 50 | 106140 | 11.57 | 70 | 4.25 | 1200 | 7.09 | 81.00 | 4.39 | 1245.83 | 7.13 |

ภาคผนวก ก (ต่อ) ข้อมูลที่ใช้ในการวิเคราะห์ประสิทธิภาพทางเศรษฐกิจในการผลิตลำไยนอกฤดู
ของชาวสวนลำไยจังหวัดลำพูน ปีการเพาะปลูก 2543/2544

| ตัวอย่างที่ | P | lnP | Pk | lnPk | PcXc | lnPcXc | LH | lnLH | Fc | lnFc |
|-------------|--------|-------|----|------|------|--------|--------|------|---------|------|
| 51 | 35943 | 10.49 | 96 | 4.56 | 1500 | 7.31 | 51.75 | 3.95 | 1222.56 | 7.11 |
| 52 | 40086 | 10.60 | 60 | 4.09 | 1200 | 7.09 | 74.00 | 4.30 | 724.17 | 6.59 |
| 53 | 102180 | 11.53 | 84 | 4.43 | 1500 | 7.31 | 145.75 | 4.98 | 337.61 | 5.82 |
| 54 | 78608 | 11.27 | 80 | 4.38 | 450 | 6.11 | 32.00 | 3.47 | 743.00 | 6.61 |
| 55 | 28991 | 10.27 | 80 | 4.38 | 1500 | 7.31 | 147.60 | 4.99 | 615.94 | 6.42 |
| 56 | 33372 | 10.42 | 90 | 4.50 | 1500 | 7.31 | 204.75 | 5.32 | 608.94 | 6.41 |
| 57 | 35622 | 10.48 | 90 | 4.50 | 1200 | 7.09 | 90.00 | 4.50 | 673.33 | 6.51 |
| 58 | 49050 | 10.80 | 80 | 4.38 | 450 | 6.11 | 432.00 | 6.07 | 234.39 | 5.46 |
| 59 | 97717 | 11.49 | 90 | 4.50 | 1500 | 7.31 | 149.00 | 5.00 | 436.83 | 6.08 |
| 60 | 42268 | 10.65 | 84 | 4.43 | 2000 | 7.60 | 75.20 | 4.32 | 1322.10 | 7.19 |
| 61 | 120315 | 11.70 | 70 | 4.25 | 1200 | 7.09 | 329.00 | 5.80 | 222.17 | 5.40 |
| 62 | 44611 | 10.71 | 86 | 4.45 | 450 | 6.11 | 8.25 | 2.11 | 1146.83 | 7.04 |
| 63 | 31778 | 10.37 | 80 | 4.38 | 450 | 6.11 | 27.33 | 3.31 | 327.35 | 5.79 |
| 64 | 24591 | 10.11 | 90 | 4.50 | 1200 | 7.09 | 26.00 | 3.26 | 435.88 | 6.08 |
| 65 | 22463 | 10.02 | 90 | 4.50 | 1500 | 7.31 | 30.00 | 3.40 | 1133.44 | 7.03 |
| 66 | 698275 | 13.46 | 45 | 3.81 | 450 | 6.11 | 26.67 | 3.28 | 441.22 | 6.09 |
| 67 | 113720 | 11.64 | 90 | 4.50 | 1200 | 7.09 | 190.40 | 5.25 | 1092.60 | 7.00 |
| 68 | 28778 | 10.27 | 80 | 4.38 | 1200 | 7.09 | 28.25 | 3.34 | 442.00 | 6.09 |
| 69 | 3352 | 8.12 | 80 | 4.38 | 450 | 6.11 | 468.00 | 6.15 | 3609.17 | 8.19 |
| 70 | 43675 | 10.68 | 85 | 4.44 | 450 | 6.11 | 82.00 | 4.41 | 996.67 | 6.90 |
| 71 | 35769 | 10.48 | 80 | 4.38 | 1200 | 7.09 | 28.25 | 3.34 | 802.46 | 6.69 |
| 72 | 37225 | 10.52 | 80 | 4.38 | 1000 | 6.91 | 39.50 | 3.68 | 1491.22 | 7.31 |
| 73 | 66495 | 11.10 | 75 | 4.32 | 450 | 6.11 | 49.00 | 3.89 | 464.00 | 6.14 |
| 74 | 27250 | 10.21 | 64 | 4.16 | 1500 | 7.31 | 60.00 | 4.09 | 1388.67 | 7.24 |
| 75 | 615977 | 13.33 | 80 | 4.38 | 450 | 6.11 | 29.67 | 3.39 | 352.29 | 5.86 |

ภาคผนวก ก (ต่อ) ข้อมูลที่ใช้ในการวิเคราะห์ประสิทธิภาพทางเศรษฐกิจในการผลิตลำไยนอกฤดูของ
ชาวสวนลำไยจังหวัดลำพูน ปีการเพาะปลูก 2543/2544

| ตัวอย่างที่ | P | lnP | Pk | lnPk | PcXc | lnPcXc | LH | lnLH | Fc | lnFc |
|-------------|--------|-------|-----|------|------|--------|---------|------|---------|------|
| 76 | 71375 | 11.18 | 80 | 4.38 | 1500 | 7.31 | 20.25 | 3.01 | 665.33 | 6.50 |
| 77 | 247533 | 12.42 | 80 | 4.38 | 450 | 6.11 | 18.78 | 2.93 | 332.89 | 5.81 |
| 78 | 67007 | 11.11 | 66 | 4.19 | 1500 | 7.31 | 28.50 | 3.35 | 294.00 | 5.68 |
| 79 | 61265 | 11.02 | 80 | 4.38 | 450 | 6.11 | 61.00 | 4.11 | 239.00 | 5.48 |
| 80 | 15315 | 9.64 | 80 | 4.38 | 1500 | 7.31 | 1.00 | 0.00 | 1002.33 | 6.91 |
| 81 | 62066 | 11.04 | 110 | 4.70 | 1500 | 7.31 | 91.50 | 4.52 | 150.61 | 5.01 |
| 82 | 34737 | 10.46 | 120 | 4.79 | 450 | 6.11 | 88.80 | 4.49 | 134.33 | 4.90 |
| 83 | 8586 | 9.06 | 120 | 4.79 | 2000 | 7.60 | 96.00 | 4.56 | 2686.50 | 7.90 |
| 84 | 44670 | 10.71 | 116 | 4.75 | 1500 | 7.31 | 291.00 | 5.67 | 952.50 | 6.86 |
| 85 | 13382 | 9.50 | 120 | 4.79 | 1500 | 7.31 | 912.00 | 6.82 | 1139.11 | 7.04 |
| 86 | 93295 | 11.44 | 76 | 4.33 | 1500 | 7.31 | 55.33 | 4.01 | 1097.78 | 7.00 |
| 87 | 4150 | 8.33 | 70 | 4.25 | 2000 | 7.60 | 62.00 | 4.13 | 1186.92 | 7.08 |
| 88 | 44846 | 10.71 | 90 | 4.50 | 2000 | 7.60 | 38.00 | 3.64 | 779.44 | 6.66 |
| 89 | 54789 | 10.91 | 70 | 4.25 | 1000 | 6.91 | 3650.00 | 8.20 | 198.56 | 5.29 |
| 90 | 58240 | 10.97 | 74 | 4.30 | 1500 | 7.31 | 912.00 | 6.82 | 425.89 | 6.05 |
| 91 | 14230 | 9.56 | 180 | 5.19 | 450 | 6.11 | 276.00 | 5.62 | 308.33 | 5.73 |
| 92 | 41783 | 10.64 | 127 | 4.84 | 2000 | 7.60 | 1620.00 | 7.39 | 651.17 | 6.48 |
| 93 | 17700 | 9.78 | 100 | 4.61 | 1500 | 7.31 | 753.00 | 6.62 | 403.75 | 6.00 |
| 94 | 43567 | 10.68 | 100 | 4.61 | 2000 | 7.60 | 72.00 | 4.28 | 917.85 | 6.82 |
| 95 | 43462 | 10.68 | 300 | 5.70 | 2000 | 7.60 | 88.80 | 4.49 | 215.33 | 5.37 |
| 96 | 56943 | 10.95 | 84 | 4.43 | 2000 | 7.60 | 21.00 | 3.04 | 1337.83 | 7.20 |
| 97 | 43034 | 10.67 | 70 | 4.25 | 1200 | 7.09 | 45.00 | 3.81 | 577.78 | 6.36 |
| 98 | 33696 | 10.43 | 120 | 4.79 | 1500 | 7.31 | 15.00 | 2.71 | 1123.33 | 7.02 |
| 99 | 67389 | 11.12 | 70 | 4.25 | 1500 | 7.31 | 2.50 | 0.92 | 622.71 | 6.43 |
| 100 | 20680 | 9.94 | 120 | 4.79 | 2000 | 7.60 | 18.00 | 2.89 | 881.25 | 6.78 |

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ของชาวสวนลำไยจังหวัดลำพูน ปีการเพาะปลูก 2543/2544

| ตัวอย่างที่ | P | lnP | Pk | lnPk | PcXc | lnPcXc | LH | lnLH | Fc | lnFc |
|-------------|--------|-------|-----|------|-------|--------|---------|------|---------|------|
| 101 | 70182 | 11.16 | 130 | 4.87 | 450 | 6.11 | 40.00 | 3.69 | 448.83 | 6.11 |
| 102 | 118718 | 11.68 | 120 | 4.79 | 450 | 6.11 | 61.50 | 4.12 | 199.67 | 5.30 |
| 103 | 23760 | 10.08 | 120 | 4.79 | 2000 | 7.60 | 20.50 | 3.02 | 255.00 | 5.54 |
| 104 | 131468 | 11.79 | 90 | 4.50 | 450 | 6.11 | 1212.00 | 7.10 | 486.67 | 6.19 |
| 105 | 25584 | 10.15 | 90 | 4.50 | 450 | 6.11 | 354.00 | 5.87 | 726.50 | 6.59 |
| 106 | 21580 | 9.98 | 90 | 4.50 | 450 | 6.11 | 264.00 | 5.58 | 2510.83 | 7.83 |
| 107 | 108620 | 11.60 | 90 | 4.50 | 2000 | 7.60 | 21.30 | 3.06 | 368.33 | 5.91 |
| 108 | 60310 | 11.01 | 64 | 4.16 | 2000 | 7.60 | 11.80 | 2.47 | 552.50 | 6.31 |
| 109 | 23641 | 10.07 | 70 | 4.25 | 1200 | 7.09 | 7.75 | 2.05 | 619.17 | 6.43 |
| 110 | 59066 | 10.99 | 110 | 4.70 | 450 | 6.11 | 41.00 | 3.71 | 533.67 | 6.28 |
| 111 | 43875 | 10.69 | 112 | 4.72 | 2000 | 7.60 | 103.50 | 4.64 | 386.67 | 5.96 |
| 112 | 9250 | 9.13 | 110 | 4.70 | 2000 | 7.60 | 61.00 | 4.11 | 571.50 | 6.35 |
| 113 | 9575 | 9.17 | 75 | 4.32 | 2000 | 7.60 | 355.00 | 5.87 | 325.77 | 5.79 |
| 114 | 20349 | 9.92 | 70 | 4.25 | 12000 | 9.39 | 603.00 | 6.40 | 508.99 | 6.23 |
| 115 | 126734 | 11.75 | 110 | 4.70 | 450 | 6.11 | 125.00 | 4.83 | 513.06 | 6.24 |
| 116 | 15880 | 9.67 | 85 | 4.44 | 450 | 6.11 | 957.00 | 6.86 | 346.91 | 5.85 |
| 117 | 19210 | 9.86 | 130 | 4.87 | 1200 | 7.09 | 18.60 | 2.92 | 56.94 | 4.04 |
| 118 | 40885 | 10.62 | 250 | 5.52 | 450 | 6.11 | 52.00 | 3.95 | 937.33 | 6.84 |
| 119 | 22024 | 10.00 | 100 | 4.61 | 1500 | 7.31 | 273.00 | 5.61 | 303.50 | 5.72 |
| 120 | 91601 | 11.43 | 100 | 4.61 | 1000 | 6.91 | 762.50 | 6.64 | 202.33 | 5.31 |
| 121 | 45510 | 10.73 | 100 | 4.61 | 1500 | 7.31 | 436.00 | 6.08 | 181.50 | 5.20 |
| 122 | 24720 | 10.12 | 115 | 4.74 | 450 | 6.11 | 36.00 | 3.58 | 399.83 | 5.99 |
| 123 | 50168 | 10.82 | 74 | 4.30 | 1500 | 7.31 | 45.25 | 3.81 | 894.67 | 6.80 |
| 124 | 13710 | 9.53 | 100 | 4.61 | 1500 | 7.31 | 27.33 | 3.31 | 880.11 | 6.78 |
| 125 | 41964 | 10.64 | 108 | 4.68 | 1500 | 7.31 | 328.00 | 5.79 | 809.17 | 6.70 |

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ของชาวสวนลำไยจังหวัดลำพูน ปี 2543/2544

| ตัวอย่างที่ | P | lnP | Pk | lnPk | PcXc | lnPcXc | LH | lnLH | Fc | LnFc |
|-------------|-------|-------|-----|------|------|--------|--------|------|---------|------|
| 126 | 24698 | 10.11 | 90 | 4.50 | 1200 | 7.09 | 88.00 | 4.48 | 450.45 | 6.11 |
| 127 | 63700 | 11.06 | 110 | 4.70 | 1200 | 7.09 | 328.00 | 5.79 | 376.11 | 5.93 |
| 128 | 62932 | 11.05 | 90 | 4.50 | 1200 | 7.09 | 91.20 | 4.51 | 418.75 | 6.04 |
| 129 | 42195 | 10.65 | 80 | 4.38 | 1500 | 7.31 | 100.13 | 4.61 | 240.04 | 5.48 |
| 130 | 59204 | 10.99 | 100 | 4.61 | 1500 | 7.31 | 229.20 | 5.43 | 284.17 | 5.65 |
| 131 | 53496 | 10.89 | 100 | 4.61 | 2000 | 7.60 | 111.00 | 4.71 | 600.83 | 6.40 |
| 132 | 43145 | 10.67 | 90 | 4.50 | 450 | 6.11 | 21.00 | 3.04 | 579.17 | 6.36 |
| 133 | 92127 | 11.43 | 90 | 4.50 | 1200 | 7.09 | 21.33 | 3.06 | 572.00 | 6.35 |
| 134 | 13950 | 9.54 | 70 | 4.25 | 1200 | 7.09 | 55.00 | 4.01 | 332.78 | 5.81 |
| 135 | 14887 | 9.61 | 100 | 4.61 | 1500 | 7.31 | 43.00 | 3.76 | 547.70 | 6.31 |
| 136 | 60735 | 11.01 | 95 | 4.55 | 450 | 6.11 | 22.33 | 3.11 | 619.89 | 6.43 |
| 137 | 48427 | 10.79 | 98 | 4.58 | 1200 | 7.09 | 23.00 | 3.14 | 444.79 | 6.10 |
| 138 | 79170 | 11.28 | 100 | 4.61 | 1200 | 7.09 | 92.00 | 4.52 | 216.28 | 5.38 |
| 139 | 73310 | 11.20 | 100 | 4.61 | 2000 | 7.60 | 43.50 | 3.77 | 357.62 | 5.88 |
| 140 | 18894 | 9.85 | 80 | 4.38 | 1500 | 7.31 | 456.00 | 6.12 | 3371.33 | 8.12 |
| 141 | 26230 | 10.17 | 80 | 4.38 | 1200 | 7.09 | 160.20 | 5.08 | 854.67 | 6.75 |
| 142 | 30717 | 10.33 | 90 | 4.50 | 2000 | 7.60 | 30.00 | 3.40 | 429.67 | 6.06 |
| 143 | 28665 | 10.26 | 75 | 4.32 | 1500 | 7.31 | 77.14 | 4.35 | 569.83 | 6.35 |

ภาคผนวก ข

ผลการประมาณค่าสัมประสิทธิ์ของสมการกำไรและสมการอุปสงค์ของปัจจัยการผลิตผันแปรของ
การผลิตลำไยนอกฤดูของชาวสวนในจังหวัดลำพูน ปีการเพาะปลูก 2543/2544

Descriptive Statistics

All results based on non-missing observations.

| Variable | Mean | Std. Dev. | Minimum | Maximum | Cases |
|----------|------------|------------|------------|------------|-------|
| LNP | 10.7121304 | .861302125 | 7.96970358 | 15.7173606 | 141 |
| LNK | 4.5280365 | .259620722 | 3.80666249 | 5.7037825 | 143 |
| LNPC | 6.9808282 | .542607257 | 6.10924758 | 7.6009025 | 143 |
| LNLH | 5.8466557 | .648187865 | 5.16992758 | 7.3671522 | 143 |
| LNFC | 8.3334862 | .714391161 | 6.69208374 | 10.1127350 | 143 |
| DA | .6363636 | .482736544 | .00000000 | 1.0000000 | 143 |

Correlation Matrix for Listed Variables

| | LNP | LNK | LNPC | LNLH | LNFC | DA |
|------|---------|---------|---------|---------|---------|---------|
| LNP | 1.00000 | -.14571 | -.16637 | -.09023 | -.16964 | -.00409 |
| LNK | -.14571 | 1.00000 | -.05271 | .08399 | -.00972 | .01401 |
| LNPC | -.16637 | -.05271 | 1.00000 | .21469 | .06244 | -.13992 |
| LNLH | -.09023 | .08399 | .21469 | 1.00000 | -.04355 | -.15365 |
| LNFC | -.16964 | -.00972 | .06244 | -.04355 | 1.00000 | .17961 |
| DA | -.00409 | .01401 | -.13992 | -.15365 | .17961 | 1.00000 |

สมการชุดที่ 1 ไม่มีข้อจำกัด

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| Estimates for equation: LNP |
| Generalized least squares regression  Weighting variable = none |
| Dep. var. = LNP  Mean = -.2384417862E-01, S.D.= 118.9929288 |
| Model size: Observations = 143, Parameters = 6, Deg.Fr. = 137 |
| Residuals: Sum of squares = 1832066.915 , Std. Dev. = 115.64061 |
| Fit:  R-squared = .048900, Adjusted R-squared = .01419 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 5, 137] = 1.41, Prob value = .22490 |
| Diagnostic: Log-L = -879.1631, Restricted(b=0) Log-L = -885.8126 |
| LogAmemiyaPrCrt. = 9.542, Akaike Info. Crt. = 12.380 |
| Log-determinant of W .7948  Log-likelihood -665.5514 |
| Durbin-Watson Stat .= 2.0500  Autocorrelation = -.0250 |
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| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+
Constant 580.9416492  205.17277  2.831  .0046
LNK -60.10423354  31.242924  -1.924  .0544  4.5280365
LNPC -33.65819269  15.395030  -2.186  .0288  6.9808282
LNLH 19.80975416  12.858464  1.541  .1234  5.8466557
LNFC -24.12748007  11.525487  -2.093  .0363  8.3334862
DA 12.58724075  20.556502  .612  .5403  .63636364

```



```

+-----+
| Estimates for equation: VK |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = VK Mean = -4.276883369E-03, S.D.= .8777519917E-01 |
| Model size: Observations = 143, Parameters = 2, Deg.Fr. = 141 |
| Residuals: Sum of squares = 1.071780566 , Std. Dev. = .08719 |
| Fit: R-squared = .006448, Adjusted R-squared = -.00060 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 1, 141] = .91, Prob value = .34043 |
| Diagnostic: Log-L = 146.9787, Restricted(b=0) Log-L = 145.5092 |
| LogAmemiyaPrCrt. = -4.866, Akaike Info. Crt. = -2.028 |
| Log-determinant of W .7948 Log-likelihood -665.5514 |
| Durbin-Watson Stat. = 1.7561 Autocorrelation = .1220 |

```

```

+-----+
+-----+-----+-----+-----+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+-----+-----+-----+-----+
DA -0.6646858646E-01 .91395052E-02 -7.273 .0000 .63636364
DB -0.5186841219E-01 .12090429E-01 -4.290 .0000 .36363636

```

```

+-----+
| Estimates for equation: VPC |
| Generalized least squares regression  Weighting variable = none |
| Dep. var. = VPC  Mean = -.3661277180E-03, S.D.= .2204444834 |
| Model size: Observations = 143, Parameters = 2, Deg.Fr. = 141 |
| Residuals: Sum of squares = 6.692505734 , Std.Dev. = .21786 |
| Fit:  R-squared = .016399, Adjusted R-squared = .00942 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 1, 141] = 2.35, Prob value = .12746 |
| Diagnostic: Log-L = 16.0145, Restricted(b=0) Log-L = 13.8252 |
| LogAmemiyaPrCrt. = -3.034, Akaike Info. Crt. = -.196 |
| Log-determinant of W .7948  Log-likelihood -665.5514 |
| Durbin-Watson Stat. = 1.9342  Autocorrelation = .0329 |
+-----+

```

```

+-----+-----+-----+-----+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+-----+-----+-----+-----+
DA  -3.109113430E-01  .22838318E-01  -1.361  .1734  .63636364
DB  -8.957024007E-01  .30212255E-01  -2.965  .0030  .36363636

```

สมการชุดที่ 2 ข้อจำกัดที่ 1 ($H_0 : \delta_1^* = 0$)

```

+-----+
| Estimates for equation: LNP |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = LNP Mean = -.2384417862E-01, S.D.= 118.9929288 |
| Model size: Observations = 143, Parameters = 6, Deg.Fr. = 137 |
| Residuals: Sum of squares = 1837850.492 , Std. Dev. = 115.82300 |
| Fit: R-squared = .045898, Adjusted R-squared = .01108 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 5, 137] = 1.32, Prob value = .25998 |
| Diagnostic: Log-L = -879.3885, Restricted(b=0) Log-L = -885.8126 |
| LogAmemiyaPrCrt. = 9.545, Akaike Info. Crt. = 12.383 |
| Log-determinant of W .7974 Log-likelihood -665.7383 |
| Durbin-Watson Stat. = 2.0550 Autocorrelation = -.0275 |
| Wald test: Chi-squared[ 1] = .3749, Prob = .5403 |
+-----+

```

```

+-----+-----+-----+-----+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+-----+-----+-----+-----+
Constant 592.2329572 204.34243 2.898 .0038
LNK -60.08291108 31.242905 -1.923 .0545 4.5280365
LNPC -34.71650352 15.297704 -2.269 .0232 6.9808282
LNLH 19.07909077 12.802977 1.490 .1362 5.8466557
LNFC -23.13365485 11.410635 -2.027 .0426 8.3334862
DA .1776356839E-14 .23841858E-06 .000 1.0000 .63636364

```

```

+-----+
| Estimates for equation: VK |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = VK Mean = -.4276883369E-03, S.D.= .8777519917E-01 |
| Model size: Observations = 143, Parameters = 2, Deg.Fr. = 141 |
| Residuals: Sum of squares = 1.072557308 , Std. Dev. = .08722 |
| Fit: R-squared = .005727, Adjusted R-squared = -.00132 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 1, 141] = .81, Prob value = .36900 |
| Diagnostic: Log-L = 146.9269, Restricted(b=0) Log-L = 145.5092 |
| LogAmemiyaPrCrt. = -4.865, Akaike Info. Crt. = -2.027 |
| Log-determinant of W .7974 Log-likelihood -665.7383 |
| Durbin-Watson Stat. = 1.7539 Autocorrelation = .1231 |
| Wald test: Chi-squared[ 1] = .3749, Prob = .5403 |
+-----+

```

```

+-----+-----+-----+-----+-----+
|Variable| Coefficient | Standard Error |b/St.Er.|P[|Z|>z]| Mean of X|
+-----+-----+-----+-----+-----+
DA      -.6469435693E-01 .86680364E-02 -7.464 .0000 .63636364
DB      -.5497331386E-01 .10975730E-01 -5.009 .0000 .36363636

```

```

+-----+
| Estimates for equation: VPC |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = VPC Mean = -3.661277180E-03, S.D.= .2204444834 |
| Model size: Observations = 143, Parameters = 2, Deg.Fr. = 141 |
| Residuals: Sum of squares = 6.695581698 , Std. Dev. = .21791 |
| Fit: R-squared = .015947, Adjusted R-squared = .00897 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 1, 141] = 2.28, Prob value = .13287 |
| Diagnostic: Log-L = 15.9817, Restricted(b=0) Log-L = 13.8252 |
| LogAmemiyaPrCrt. = -3.033, Akaike Info. Crt. = -.196 |
| Log-determinant of W .7974 Log-likelihood -665.7383 |
| Durbin-Watson Stat. = 1.9318 Autocorrelation = .0341 |
| Wald test: Chi-squared[ 1] = .3749, Prob = .5403 |
+-----+

```

```

+-----+-----+-----+-----+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+-----+-----+-----+-----+
DA -2.756042459E-01 .22098441E-01 -1.247 .2123 .63636364
DB -9.574898206E-01 .28477348E-01 -3.362 .0008 .36363636

```

สมการชุดที่ 3 มีข้อจำกัด 4 ข้อ

```

+-----+
| Estimates for equation: LNP |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = LNP Mean = -.2384417862E-01, S.D.= 118.9929288 |
| Model size: Observations = 143, Parameters = 6, Deg.Fr. = 137 |
| Residuals: Sum of squares = 1836334.846 , Std. Dev. = 115.77523 |
| Fit: R-squared = .046684, Adjusted R-squared = .01189 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 5, 137] = 1.34, Prob value = .25039 |
| Diagnostic: Log-L = -879.3295, Restricted(b=0) Log-L = -885.8126 |
| LogAmemiyaPrCrt. = 9.544, Akaike Info. Crt. = 12.382 |
| Log-determinant of W .8490 Log-likelihood -669.4293 |
| Durbin-Watson Stat. = 2.0550 Autocorrelation = -.0275 |
| Wald test: Chi-squared[ 4] = 7.9641, Prob = .0929 |
+-----+

```

```

+-----+-----+-----+-----+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+-----+-----+-----+-----+
Constant 566.8587022 183.13657 3.095 .0020
LNK -60.74878250 31.153800 -1.950 .0512 4.5280365
LNLH 21.80673680 8.1434708 2.678 .0074 5.8466557
LNFC -20.80673680 8.1434708 -2.555 .0106 8.3334862
DA .5329070518E-14 .32740194E-06 .000 1.0000 .63636364

```

```

+-----+
| Estimates for equation: VK |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = VK Mean = -.4276883369E-03, S.D.= .8777519917E-01 |
| Model size: Observations = 143, Parameters = 2, Deg.Fr. = 141 |
| Residuals: Sum of squares = 1.078735738 , Std. Dev. = .08747 |
| Fit: R-squared = .000000, Adjusted R-squared = -.00709 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Model test: F[ 1, 141] = .00, Prob value = 1.00000 |
| Diagnostic: Log-L = 146.5162, Restricted(b=0) Log-L = 145.5092 |
| LogAmemiyaPrCrt. = -4.859, Akaike Info. Crt. = -2.021 |
| Log-determinant of W .8490 Log-likelihood -669.4293 |
| Durbin-Watson Stat. = 1.7500 Autocorrelation = .1250 |
| Wald test: Chi-squared[ 4] = 7.9641, Prob = .0929 |
+-----+

```

```

+-----+-----+-----+-----+-----+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+-----+-----+-----+-----+-----+
DA -0.6115943218E-01 .72908030E-02 -8.389 .0000 .63636364
DB -0.6115943218E-01 .72908030E-02 -8.389 .0000 .36363636

```

```

+-----+
| Estimates for equation: VPC |
| Generalized least squares regression Weighting variable = none |
| Dep. var. = VPC Mean = -.3661277180E-03, S.D.= .2204444834 |
| Model size: Observations = 143, Parameters = 2, Deg.Fr. = 141 |
| Residuals: Sum of squares = 6.804087497 , Std. Dev. = .21967 |
| Fit: R-squared = .000000, Adjusted R-squared = -.00709 |
| (Note: Not using OLS. R-squared is not bounded in [0,1] |
| Diagnostic: Log-L = 14.8322, Restricted(b=0) Log-L = 13.8252 |
| LogAmemiyaPrCrt. = -3.017, Akaike Info. Crt. = -.179 |
| Log-determinant of W .8490 Log-likelihood -669.4293 |
| Durbin-Watson Stat. = 1.9466 Autocorrelation = .0267 |
| Wald test: Chi-squared[ 4] = 7.9641, Prob = .0929 |

```

```

+-----+
+-----+
| Variable | Coefficient | Standard Error | b/St.Er. | P[|Z|>z] | Mean of X |
+-----+
DA -5.235626367E-01 .18218676E-01 -2.874 .0041 .63636364
DB -5.235626367E-01 .18218676E-01 -2.874 .0041 .36363636

```


ประวัติผู้เขียน

| | |
|-------------------|--|
| ชื่อ | นางจันทร์สุดา รุ่งเรืองวงศ์ |
| วัน เดือน ปี เกิด | 20 กรกฎาคม 2507 |
| ประวัติการศึกษา | สำเร็จมัธยมศึกษาตอนปลาย โรงเรียนปิ่นสร้อยแยลส์ วิทยาลัย ปีการศึกษา 2524 สำเร็จปริญญาตรี วิทยาศาสตร์บัณฑิต(เกษตรศาสตร์) มหาวิทยาลัยขอนแก่น ปีการศึกษา 2528 |
| ประวัติการทำงาน | พ.ศ. 2531 พนักงานสินเชื่อ ธนาคารกรุงไทยจำกัด สาขาสันป่าข่อย พ.ศ. 2532-2533 นักวิชาการเกษตร 3 โครงการไร่นา สาธิตห้วยสีทน จังหวัดกาฬสินธุ์ พ.ศ. 2534-2536 นักวิชาการเกษตร 4 สำนักงานเกษตร ภาคเหนือจังหวัดเชียงใหม่ พ.ศ. 2536-2538 เจ้าหน้าที่ฝึกอบรม 5 ศูนย์พัฒนาผู้- บริหารการเกษตร ภาคเหนือ จังหวัด เชียงใหม่ พ.ศ. 2538-ปัจจุบัน เจ้าหน้าที่วิเคราะห์นโยบายและแผน 6ว. สำนักงานเกษตรและสหกรณ์จังหวัด ลำพูน |