

## **APPENDIX A**

# Land Evaluation and Site Assessment (LESA) Tables

**TABLE A-1  
LAND CAPABILITY CLASSIFICATION (LCC) AND STORIE INDEX SCORES**

| Soil Map Unit | Project Acres | Proportion of Project Area | LCC | LCC Rating | LCC Score    | Storie Index | Storie Index Score |
|---------------|---------------|----------------------------|-----|------------|--------------|--------------|--------------------|
| AvC           | 9.98          | 0.026                      | 3   | 70         | 1.79         | 47           | 1.20               |
| CmrG          | 16.70         | 0.043                      | 7   | 10         | 0.43         | 5            | 0.22               |
| FaC2          | 6.68          | 0.017                      | 3   | 70         | 1.20         | 51           | 0.87               |
| FaE2          | 10.71         | 0.028                      | 6   | 20         | 0.55         | 35           | 0.96               |
| GoA           | 3.65          | 0.009                      | 2   | 80         | 0.75         | 81           | 0.76               |
| LpD2          | 28.54         | 0.073                      | 4   | 50         | 3.66         | 33           | 2.42               |
| LpE2          | 44.80         | 0.115                      | 6   | 20         | 2.30         | 26           | 2.99               |
| LrG           | 196.52        | 0.504                      | 7   | 10         | 5.04         | 8            | 4.03               |
| RaC           | 29.79         | 0.076                      | 3   | 70         | 5.35         | 58           | 4.44               |
| RaD2          | 0.85          | 0.002                      | 4   | 50         | 0.11         | 48           | 0.10               |
| StG           | 7.56          | 0.019                      | 8   | 0          | 0.00         | 10           | 0.19               |
| TuB           | 0.78          | 0.002                      | 4   | 40         | 0.08         | 39           | 0.08               |
| WmB           | 0.95          | 0.002                      | 2   | 90         | 0.22         | 81           | 0.20               |
| WmC           | 9.87          | 0.025                      | 2   | 90         | 2.28         | 77           | 1.95               |
| WmD           | 22.13         | 0.057                      | 3   | 70         | 3.98         | 69           | 3.92               |
| <b>TOTAL</b>  | <b>389.50</b> | <b>1</b>                   |     |            | <b>27.75</b> |              | <b>24.34</b>       |

**TABLE A-2  
PROJECT SIZE SCORING**

| LCC Class | Points | LCC Class I of II Soils |       | LCC Class III Soils |       | LCC Class IV or Lower |       |
|-----------|--------|-------------------------|-------|---------------------|-------|-----------------------|-------|
|           |        | Acres                   | Score | Acres               | Score | Acres                 | Score |
| I         | 100    |                         |       |                     |       |                       |       |
| Ile       | 90     | 80 or above             | 100   | 160 or above        | 100   | 320 or above          | 100   |
| IIs,w     | 80     | 60-79                   | 90    | 120-159             | 90    | 240-319               | 80    |
| IIle      | 70     | 40-59                   | 80    | 80-119              | 80    | 160-239               | 60    |
| IIIs,w    | 60     | 20-39                   | 50    | 60-79               | 70    | 100-159               | 40    |
| IVe       | 50     | 10-19                   | 30    | 40-59               | 60    | 40-99                 | 20    |
| IVs,w     | 40     | fewer than 10           | 0     | 20-39               | 30    | fewer than 40         | 0     |
| V         | 30     |                         |       | 10-19               | 10    |                       |       |
| VI        | 20     |                         |       | fewer than 10       | 0     |                       |       |

**TABLE A-3  
PROJECT SIZE SCORING WORKSHEET**

|                            | <b>LCC Class I-II</b> | <b>LCC Class III</b> | <b>LCC Class IV-VIII</b> |
|----------------------------|-----------------------|----------------------|--------------------------|
|                            | 17.277                | 5.226                | 5.577                    |
|                            | 5.577                 | 5.616                | 8.697                    |
|                            | 17.667                | 52.338               | 25.077                   |
|                            |                       | 18.759               | 42.393                   |
|                            |                       |                      | 174.252                  |
|                            |                       |                      | 3.315                    |
|                            |                       |                      | 8.19                     |
| <b>Total Acres</b>         | <b>40.521</b>         | <b>81.939</b>        | <b>267.501</b>           |
| <b>Project Size Scores</b> | <b>80</b>             | <b>80</b>            | <b>80</b>                |

**TABLE A-4  
WATER RESOURCE AVAILABILITY**

| Option | Non-Drought Years   |                        |                        | Drought Years                  |                        |                        | WATER RESOURCE SCORE |
|--------|---|------------------------|------------------------|--------------------------------|------------------------|------------------------|----------------------|
|        | RESTRICTIONS  |                        |                        | RESTRICTIONS                   |                        |                        |                      |
|        | Irrigated Production Feasible?  | Physical Restrictions? | Economic Restrictions? | Irrigated Production Feasible? | Physical Restrictions? | Economic Restrictions? |                      |
| 1      | YES   | NO                     | NO                     | YES                            | NO                     | NO                     | 100                  |
| 2      | YES   | NO                     | NO                     | YES                            | NO                     | YES                    | 95                   |
| 3      | YES   | NO                     | YES                    | YES                            | NO                     | YES                    | 90                   |
| 4      | YES   | NO                     | NO                     | YES                            | YES                    | NO                     | 85                   |
| 5      | YES   | NO                     | NO                     | YES                            | YES                    | YES                    | 80                   |
| 6      | YES   | YES                    | NO                     | YES                            | YES                    | NO                     | 75                   |
| 7      | YES   | YES                    | YES                    | YES                            | YES                    | YES                    | 65                   |
| 8      | YES   | NO                     | NO                     | NO                             | -- --                  | -- --                  | 50                   |
| 9      | YES   | NO                     | YES                    | NO                             | -- --                  | -- --                  | 45                   |
| 10     | YES   | YES                    | NO                     | NO                             | -- --                  | -- --                  | 35                   |
| 11     | YES   | YES                    | YES                    | NO                             | -- --                  | -- --                  | 30                   |
| 12     | Irrigated production not feasible, but rainfall adequate for dryland production in both drought and non-drought years           |                        |                        |                                |                        |                        | 25                   |
| 13     | Irrigated production not feasible, but rainfall adequate for dryland production in non-drought years (but not in drought years) |                        |                        |                                |                        |                        | 20                   |
| 14     | Neither irrigated nor dryland production feasible   |                        |                        |                                |                        |                        | 0                    |

**TABLE A-5  
WATER RESOURCE AVAILABILITY**

| Project Proportion | Water Source  | Proportion of Project Area | Water Availability Score | Weighted Availability Score |
|--------------------|---------------|----------------------------|--------------------------|-----------------------------|
| 1                  | groundwater   | 0.565                      | 80                       | 45.2                        |
| 2                  | not irrigated | 0.435                      | 0                        | 0                           |
| <b>TOTAL SCORE</b> |               | <b>1</b>                   |                          | <b>45.2</b>                 |

**TABLE A-6  
SURROUNDING AGRICULTURAL LAND RATING**

| % of ZOI in Agriculture | Surrounding Agricultural Land Score |
|-------------------------|-------------------------------------|
| 90-100                  | 100                                 |
| 80-89                   | 95                                  |
| 70-79                   | 90                                  |
| 65-69                   | 85                                  |
| 60-64                   | 80                                  |
| 55-59                   | 70                                  |
| 50-54                   | 60                                  |
| 45-49                   | 50                                  |
| 40-44                   | 40                                  |
| 35-39                   | 30                                  |
| 30-34                   | 20                                  |
| 20-29                   | 10                                  |
| less than 19            | 0                                   |

**TABLE A-7  
SURROUNDING PROTECTED RESOURCE LAND RATING**

| % of ZOI Defined As Protected | Surrounding Prot. Land Use Score |
|-------------------------------|----------------------------------|
| 90-100                        | 100                              |
| 80-89                         | 90                               |
| 75-79                         | 80                               |
| 70-74                         | 70                               |
| 65-69                         | 60                               |
| 60-64                         | 50                               |
| 55-59                         | 40                               |
| 50-54                         | 30                               |
| 45-49                         | 20                               |
| 40-44                         | 10                               |
| less than 40                  | 0                                |

**TABLE A-8  
FINAL LESA SCORESHEET**

| Factor Name                    | Factor Rating | Factor Weighting | Weighted Factor Rating |
|--------------------------------|---------------|------------------|------------------------|
| Land Capability Classification | 27.75         | 0.25             | 6.9                    |
| Storie Index Rating            | 24.34         | 0.25             | 6.1                    |
| Project Size                   | 80            | 0.15             | 12                     |
| Water Resource Availability    | 42.5          | 0.15             | 6.8                    |
| Surrounding AG Lands           | 60            | 0.15             | 9                      |
| Protected Land Resources       | 0             | 0.05             | 0                      |
| <b>TOTAL LESA SCORE</b>        |               |                  | <b>40.8</b>            |