# LESA Worksheet #1

**NOTE:** The soil mapunits shown are for the selected area. The land capability (lc) is the dominant land capability of the soil components. The yield values shown are a weighted average calculated from the soil components.

## Survey Area : Prince William County, Virginia (VA153)
## 93 Mapunits

```
Indicator crop     : corn
Temperature Regime: mesic
C factor           : 0.05
System irrigated?  : no
Minimum Component: 15%
```

**Sorted by Map Symbol (map symbl)**

| line no. | map symbl | soil name | slope | lc | nirr yield | prd ind | i f | acres number | pct |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1A | aden silt loam | 0- 2 | 3w | 65 | 41 | 0 | 1,270 | 0.6 |
| 2 | 2B | airmont-weverton complex | 2- 7 | 6s | 85 | 53 | 0 | 650 | 0.3 |
| 3 | 2C | airmont-weverton complex | 7-15 | 6s | 75 | 47 | 0 | 1,300 | 0.6 |
| 4 | 2D | airmont-weverton complex | 15-25 | 6s | 68 | 43 | 0 | 970 | 0.4 |
| 5 | 2E | airmont-weverton complex | 25-50 | 7e | 0 | 0 | | 1,420 | 0.6 |
| 6 | 3A | albano silt loam | 0- 4 | 5w | 65 | 41 | 0 | 4,050 | 1.8 |
| 7 | 4B | arcola silt loam | 2- 7 | 2e | 110 | 69 | 1 | 16,006 | 7.0 |
| 8 | 5C | arcola-nestoria complex | 7-15 | 3e | 82 | 51 | 0 | 10,610 | 4.6 |
| 9 | 5D | arcola-nestoria complex | 15-25 | 4e | 74 | 47 | 0 | 2,720 | 1.2 |
| 10 | 6A | baile loam | 0- 4 | 5w | 85 | 53 | 0 | 2,735 | 1.2 |
| 11 | 7A | bermudian silt loam | 0- 2 | 1 | 160 | 100 | 1 | 2,310 | 1.0 |
| 12 | 8C | braddock loam | 7-15 | 3e | 114 | 71 | S | 960 | 0.4 |
| 13 | 9B | brentsville sandy loam | 2- 7 | 2e | 85 | 53 | S | 355 | 0.2 |
| 14 | 9C | brentsville sandy loam | 7-15 | 3e | 75 | 47 | S | 900 | 0.4 |
| 15 | 10B | buckhall loam | 2- 7 | 2e | 100 | 63 | 1 | 2,270 | 1.0 |
| 16 | 10C | buckhall loam | 7-15 | 3e | 88 | 55 | S | 8,500 | 3.7 |
| 17 | 11B | calverton silt loam | 0- 7 | 3w | 85 | 53 | 0 | 2,030 | 0.9 |
| 18 | 12D | catlett gravelly silt loam | 15-25 | 6e | 47 | 29 | 0 | 460 | 0.2 |
| 19 | 13B | catlett-sycoline complex | 2- 7 | 3e | 65 | 41 | 0 | 2,200 | 1.0 |
| 20 | 13C | catlett-sycoline complex | 7-15 | 4e | 57 | 36 | 0 | 2,160 | 0.9 |
| 21 | 14A | codorus loam | 0- 2 | 2w | 160 | 100 | 0 | 990 | 0.4 |
| 22 | 15A | comus loam | 0- 2 | 2w | 160 | 100 | 0 | 1,275 | 0.6 |
| 23 | 16A | delanco fine sandy loam | 0- 4 | 2e | 160 | 100 | S | 2,590 | 1.1 |
| 24 | 17A | dulles silt loam | 0- 4 | 4w | 100 | 63 | 1 | 4,950 | 2.2 |
| 25 | 18C | dumfries sandy loam | 7-15 | 4s | 97 | 61 | S | 920 | 0.4 |
| 26 | 18D | dumfries sandy loam | 15-25 | 6s | 88 | 55 | S | 2,000 | 0.9 |
| 27 | 18E | dumfries sandy loam | 25-50 | 7e | 0 | 0 | | 3,800 | 1.7 |
| 28 | 19B | elioak loam | 2- 7 | 2e | 100 | 63 | 1 | 875 | 0.4 |
| 29 | 19C | elioak loam | 7-15 | 3e | 88 | 55 | 0 | 1,000 | 0.4 |
| 30 | 20B | elsinboro sandy loam | 2- 7 | 2e | 130 | 81 | 1 | 1,450 | 0.6 |
| 31 | 21B | fairfax loam | 2- 7 | 2e | 150 | 94 | 1 | 4,120 | 1.8 |
| 32 | 21C | fairfax loam | 7-15 | 3e | 132 | 83 | S | 1,470 | 0.6 |
| 33 | 22A | featherstone mucky silt loam | 0- 1 | 7w | 65 | 41 | 0 | 905 | 0.4 |
| 34 | 23C | gaila sandy loam | 7-15 | 3e | 75 | 47 | S | 1,590 | 0.7 |
| 35 | 23D | gaila sandy loam | 15-25 | 4e | 68 | 43 | S | 2,300 | 1.0 |

| line no. | map symbl | soil name | slope | lc | nirr yield | prd ind | i f | acres number | pct |
|---|---|---|---|---|---|---|---|---|---|
| 36 | 23E | gaila sandy loam | 25-50 | 7e | | 0 | 0 | 2,120 | 0.9 |
| 37 | 24B | glenelg-buckhall complex | 2- 7 | 2e | 106 | 66 | 1 | 1,500 | 0.7 |
| 38 | 24C | glenelg-buckhall complex | 7-15 | 3e | 93 | 58 | S | 5,000 | 2.2 |
| 39 | 24D | glenelg-buckhall complex | 15-25 | 4e | 84 | 53 | S | 1,400 | 0.6 |
| 40 | 25A | glenville loam | 0- 4 | 2w | 100 | 63 | 1 | 675 | 0.3 |
| 41 | 26A | hatboro silt loam | 0- 2 | 3w | 85 | 53 | 0 | 605 | 0.3 |
| 42 | 27A | hatboro-codorus complex | 0- 2 | 3w | 118 | 74 | 0 | 4,100 | 1.8 |
| 43 | 28B | haymarket silt loam | 2- 7 | 2e | 65 | 41 | 1 | 520 | 0.2 |
| 44 | 28C | haymarket silt loam | 7-15 | 3e | 57 | 36 | S | 425 | 0.2 |
| 45 | 29B | hoadly loam | 2- 7 | 3w | 85 | 53 | 0 | 3,320 | 1.5 |
| 46 | 30B | jackland silt loam | 2- 7 | 2e | 65 | 41 | 2 | 3,750 | 1.6 |
| 47 | 31B | jackland-haymarket complex | 2- 7 | 2e | 65 | 41 | 2 | 1,610 | 0.7 |
| 48 | 31C | jackland-haymarket complex | 7-15 | 3e | 57 | 36 | S | 1,300 | 0.6 |
| 49 | 32A | kelly silt loam | 0- 2 | 4w | 65 | 41 | S | 790 | 0.3 |
| 50 | 33B | legore-oakhill complex | 2- 7 | 2e | 94 | 59 | 1 | 1,290 | 0.6 |
| 51 | 33C | legore-oakhill complex | 7-15 | 3e | 83 | 52 | S | 1,515 | 0.7 |
| 52 | 33D | legore-oakhill complex | 15-25 | 4e | 76 | 47 | S | 455 | 0.2 |
| 53 | 34B | lunt loam | 2- 7 | 2e | 100 | 63 | 1 | 900 | 0.4 |
| 54 | 34C | lunt loam | 7-15 | 4e | 88 | 55 | S | 1,980 | 0.9 |
| 55 | 34D | lunt loam | 15-25 | 6e | 80 | 50 | S | 1,030 | 0.4 |
| 56 | 35B | manassas silt loam | 2- 7 | 2e | 150 | 94 | 1 | 7,295 | 3.2 |
| 57 | 36D | marr very fine sandy loam | 7-25 | 6e | 88 | 55 | S | 515 | 0.2 |
| 58 | 36E | marr very fine sandy loam | 25-50 | 7e | | 0 | 0 | 800 | 0.3 |
| 59 | 37A | marumsco loam | 0- 4 | 2w | 130 | 81 | 1 | 500 | 0.2 |
| 60 | 38B | meadowville loam | 0- 5 | 2e | 140 | 88 | 1 | 6,620 | 2.9 |
| 61 | 39B3 | minnieville clay loam | 2- 7 | 3e | 91 | 57 | 0 | 295 | 0.1 |
| 62 | 39C3 | minnieville clay loam | 7-15 | 4e | 80 | 50 | 0 | 750 | 0.3 |
| 63 | 40B | montalto silty clay loam | 2- 7 | 2e | 130 | 81 | 1 | 865 | 0.4 |
| 64 | 40C | montalto silty clay loam | 7-15 | 3e | 114 | 71 | 0 | 440 | 0.2 |
| 65 | 41B | neabsco loam | 0- 7 | 2e | 85 | 53 | 0 | 4,155 | 1.8 |
| 66 | 41C | neabsco loam | 7-15 | 3e | 75 | 47 | 0 | 1,235 | 0.5 |
| 67 | 42B | neabsco-quantico complex | 2- 7 | 2e | 100 | 63 | 0 | 1,880 | 0.8 |
| 68 | 43D | nestoria gravelly silt loam | 7-25 | 6e | 47 | 29 | 0 | 300 | 0.1 |
| 69 | 43E | nestoria gravelly silt loam | 25-50 | 7e | | 0 | 0 | 770 | 0.3 |
| 70 | 44D | occoquan sandy loam | 7-25 | 6e | 68 | 43 | 0 | 4,600 | 2.0 |
| 71 | 44E | occoquan sandy loam | 25-50 | 7e | | 0 | 0 | 2,290 | 1.0 |
| 72 | 45C | orenda loam | 7-15 | 3e | 57 | 36 | S | 965 | 0.4 |
| 73 | 46B | panorama silt loam | 2- 7 | 2e | 110 | 69 | 1 | 5,700 | 2.5 |
| 74 | 46C | panorama silt loam | 7-15 | 3e | 97 | 61 | S | 1,110 | 0.5 |
| 75 | 47B | quantico sandy loam | 2- 7 | 2e | 120 | 75 | 1 | 2,540 | 1.1 |
| 76 | 47C | quantico sandy loam | 7-15 | 3e | 106 | 66 | S | 2,915 | 1.3 |
| 77 | 47D | quantico sandy loam | 15-25 | 4e | 96 | 60 | S | 1,600 | 0.7 |
| 78 | 48A | reaville silt loam | 0- 4 | 3w | 65 | 41 | 0 | 1,850 | 0.8 |
| 79 | 49A | rowland silt loam | 0- 2 | 2w | 160 | 100 | 0 | 1,560 | 0.7 |
| 80 | 50D | spriggs silt loam | 15-25 | 6e | 52 | 33 | S | 980 | 0.4 |
| 81 | 50E | spriggs silt loam | 25-50 | 7e | | 0 | 0 | 710 | 0.3 |
| 82 | 51D | stumptown very flaggy loam | 7-25 | 6s | 48 | 30 | 0 | 920 | 0.4 |
| 83 | 51E | stumptown very flaggy loam | 25-50 | 7e | | 0 | 0 | 1,080 | 0.5 |
| 84 | 52B | sudley-oatlands complex | 2- 7 | 2e | 126 | 79 | 1 | 1,715 | 0.7 |
| 85 | 52C | sudley-oatlands complex | 7-15 | 3e | 111 | 69 | S | 2,140 | 0.9 |
| 86 | 53B | sycoline-kelly complex | 2- 7 | 2w | 65 | 41 | 1 | 3,180 | 1.4 |
| 87 | 53C | sycoline-kelly complex | 7-15 | 3e | 57 | 36 | 0 | 255 | 0.1 |
| 88 | 54B | urban land-udorthents complex | 0- 7 | 0 | | 0 | 0 | 3,750 | 1.6 |
| 89 | 55D | watt channery silt loam | 15-25 | 6e | 44 | 28 | 0 | 290 | 0.1 |

| line no. | **map symbl** | soil name | slope | lc | nirr yield | prd ind | i f | acres number | pct |
|---|---|---|---|---|---|---|---|---|---|
| 90 | 55E | watt channery silt loam | 25-50 | 0 | | 0 | 0 | 620 | 0.3 |
| 91 | 56A | waxpool silt loam | 0- 2 | 4w | 65 | 41 | 0 | 5,280 | 2.3 |
| 92 | NOTCO | not complete | 0- 0 | 0 | | 0 | 0 | 26,749 | 11.7 |
| 93 | W | water | 0- 0 | 0 | | 0 | 0 | 1,285 | 0.6 |
| | | | | | | | | 228,900 | |

**Sorted by Productivity Index (prd ind)**

| line no. | map symbl | soil name | slope | lc | nirr yield | **prd ind** | i f | acres number | pct |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7A | bermudian silt loam | 0- 2 | 1 | 160 | 100 | 1 | 2,310 | 1.0 |
| 2 | 16A | delanco fine sandy loam | 0- 4 | 2e | 160 | 100 | S | 2,590 | 1.1 |
| 3 | 49A | rowland silt loam | 0- 2 | 2w | 160 | 100 | 0 | 1,560 | 0.7 |
| 4 | 15A | comus loam | 0- 2 | 2w | 160 | 100 | 0 | 1,275 | 0.6 |
| 5 | 14A | codorus loam | 0- 2 | 2w | 160 | 100 | 0 | 990 | 0.4 |
| 6 | 35B | manassas silt loam | 2- 7 | 2e | 150 | 94 | 1 | 7,295 | 3.2 |
| 7 | 21B | fairfax loam | 2- 7 | 2e | 150 | 94 | 1 | 4,120 | 1.8 |
| 8 | 38B | meadowville loam | 0- 5 | 2e | 140 | 88 | 1 | 6,620 | 2.9 |
| 9 | 21C | fairfax loam | 7-15 | 3e | 132 | 83 | S | 1,470 | 0.6 |
| 10 | 20B | elsinboro sandy loam | 2- 7 | 2e | 130 | 81 | 1 | 1,450 | 0.6 |
| 11 | 40B | montalto silty clay loam | 2- 7 | 2e | 130 | 81 | 1 | 865 | 0.4 |
| 12 | 37A | marumsco loam | 0- 4 | 2w | 130 | 81 | 1 | 500 | 0.2 |
| 13 | 52B | sudley-oatlands complex | 2- 7 | 2e | 126 | 79 | 1 | 1,715 | 0.7 |
| 14 | 47B | quantico sandy loam | 2- 7 | 2e | 120 | 75 | 1 | 2,540 | 1.1 |
| 15 | 27A | hatboro-codorus complex | 0- 2 | 3w | 118 | 74 | 0 | 4,100 | 1.8 |
| 16 | 8C | braddock loam | 7-15 | 3e | 114 | 71 | S | 960 | 0.4 |
| 17 | 40C | montalto silty clay loam | 7-15 | 3e | 114 | 71 | 0 | 440 | 0.2 |
| 18 | 52C | sudley-oatlands complex | 7-15 | 3e | 111 | 69 | S | 2,140 | 0.9 |
| 19 | 4B | arcola silt loam | 2- 7 | 2e | 110 | 69 | 1 | 16,006 | 7.0 |
| 20 | 46B | panorama silt loam | 2- 7 | 2e | 110 | 69 | 1 | 5,700 | 2.5 |
| 21 | 47C | quantico sandy loam | 7-15 | 3e | 106 | 66 | S | 2,915 | 1.3 |
| 22 | 24B | glenelg-buckhall complex | 2- 7 | 2e | 106 | 66 | 1 | 1,500 | 0.7 |
| 23 | 42B | neabsco-quantico complex | 2- 7 | 2e | 100 | 63 | 0 | 1,880 | 0.8 |
| 24 | 10B | buckhall loam | 2- 7 | 2e | 100 | 63 | 1 | 2,270 | 1.0 |
| 25 | 34B | lunt loam | 2- 7 | 2e | 100 | 63 | 1 | 900 | 0.4 |
| 26 | 19B | elioak loam | 2- 7 | 2e | 100 | 63 | 1 | 875 | 0.4 |
| 27 | 25A | glenville loam | 0- 4 | 2w | 100 | 63 | 1 | 675 | 0.3 |
| 28 | 17A | dulles silt loam | 0- 4 | 4w | 100 | 63 | 1 | 4,950 | 2.2 |
| 29 | 46C | panorama silt loam | 7-15 | 3e | 97 | 61 | S | 1,110 | 0.5 |
| 30 | 18C | dumfries sandy loam | 7-15 | 4s | 97 | 61 | S | 920 | 0.4 |
| 31 | 47D | quantico sandy loam | 15-25 | 4e | 96 | 60 | S | 1,600 | 0.7 |
| 32 | 33B | legore-oakhill complex | 2- 7 | 2e | 94 | 59 | 1 | 1,290 | 0.6 |
| 33 | 24C | glenelg-buckhall complex | 7-15 | 3e | 93 | 58 | S | 5,000 | 2.2 |
| 34 | 39B3 | minnieville clay loam | 2- 7 | 3e | 91 | 57 | 0 | 295 | 0.1 |
| 35 | 10C | buckhall loam | 7-15 | 3e | 88 | 55 | S | 8,500 | 3.7 |
| 36 | 19C | elioak loam | 7-15 | 3e | 88 | 55 | 0 | 1,000 | 0.4 |
| 37 | 34C | lunt loam | 7-15 | 4e | 88 | 55 | S | 1,980 | 0.9 |
| 38 | 36D | marr very fine sandy loam | 7-25 | 6e | 88 | 55 | S | 515 | 0.2 |
| 39 | 18D | dumfries sandy loam | 15-25 | 6s | 88 | 55 | S | 2,000 | 0.9 |
| 40 | 41B | neabsco loam | 0- 7 | 2e | 85 | 53 | 0 | 4,155 | 1.8 |
| 41 | 9B | brentsville sandy loam | 2- 7 | 2e | 85 | 53 | S | 355 | 0.2 |
| 42 | 29B | hoadly loam | 2- 7 | 3w | 85 | 53 | 0 | 3,320 | 1.5 |
| 43 | 11B | calverton silt loam | 0- 7 | 3w | 85 | 53 | 0 | 2,030 | 0.9 |

| line no. | map symbl | soil name | slope | lc | nirr yield | **prd ind** | i f | acres number | pct |
|---|---|---|---|---|---|---|---|---|---|
| 44 | 26A | hatboro silt loam | 0- 2 | 3w | 85 | 53 | 0 | 605 | 0.3 |
| 45 | 6A | baile loam | 0- 4 | 5w | 85 | 53 | 0 | 2,735 | 1.2 |
| 46 | 2B | airmont-weverton complex | 2- 7 | 6s | 85 | 53 | 0 | 650 | 0.3 |
| 47 | 24D | glenelg-buckhall complex | 15-25 | 4e | 84 | 53 | S | 1,400 | 0.6 |
| 48 | 33C | legore-oakhill complex | 7-15 | 3e | 83 | 52 | S | 1,515 | 0.7 |
| 49 | 5C | arcola-nestoria complex | 7-15 | 3e | 82 | 51 | 0 | 10,610 | 4.6 |
| 50 | 39C3 | minnieville clay loam | 7-15 | 4e | 80 | 50 | 0 | 750 | 0.3 |
| 51 | 34D | lunt loam | 15-25 | 6e | 80 | 50 | S | 1,030 | 0.4 |
| 52 | 33D | legore-oakhill complex | 15-25 | 4e | 76 | 47 | S | 455 | 0.2 |
| 53 | 23C | gaila sandy loam | 7-15 | 3e | 75 | 47 | S | 1,590 | 0.7 |
| 54 | 41C | neabsco loam | 7-15 | 3e | 75 | 47 | 0 | 1,235 | 0.5 |
| 55 | 9C | brentsville sandy loam | 7-15 | 3e | 75 | 47 | S | 900 | 0.4 |
| 56 | 2C | airmont-weverton complex | 7-15 | 6s | 75 | 47 | 0 | 1,300 | 0.6 |
| 57 | 5D | arcola-nestoria complex | 15-25 | 4e | 74 | 47 | 0 | 2,720 | 1.2 |
| 58 | 23D | gaila sandy loam | 15-25 | 4e | 68 | 43 | S | 2,300 | 1.0 |
| 59 | 44D | occoquan sandy loam | 7-25 | 6e | 68 | 43 | 0 | 4,600 | 2.0 |
| 60 | 2D | airmont-weverton complex | 15-25 | 6s | 68 | 43 | 0 | 970 | 0.4 |
| 61 | 30B | jackland silt loam | 2- 7 | 2e | 65 | 41 | 2 | 3,750 | 1.6 |
| 62 | 31B | jackland-haymarket complex | 2- 7 | 2e | 65 | 41 | 2 | 1,610 | 0.7 |
| 63 | 28B | haymarket silt loam | 2- 7 | 2e | 65 | 41 | 1 | 520 | 0.2 |
| 64 | 53B | sycoline-kelly complex | 2- 7 | 2w | 65 | 41 | 1 | 3,180 | 1.4 |
| 65 | 13B | catlett-sycoline complex | 2- 7 | 3e | 65 | 41 | 0 | 2,200 | 1.0 |
| 66 | 48A | reaville silt loam | 0- 4 | 3w | 65 | 41 | 0 | 1,850 | 0.8 |
| 67 | 1A | aden silt loam | 0- 2 | 3w | 65 | 41 | 0 | 1,270 | 0.6 |
| 68 | 56A | waxpool silt loam | 0- 2 | 4w | 65 | 41 | 0 | 5,280 | 2.3 |
| 69 | 32A | kelly silt loam | 0- 2 | 4w | 65 | 41 | S | 790 | 0.3 |
| 70 | 3A | albano silt loam | 0- 4 | 5w | 65 | 41 | 0 | 4,050 | 1.8 |
| 71 | 22A | featherstone mucky silt loam | 0- 1 | 7w | 65 | 41 | 0 | 905 | 0.4 |
| 72 | 31C | jackland-haymarket complex | 7-15 | 3e | 57 | 36 | S | 1,300 | 0.6 |
| 73 | 45C | orenda loam | 7-15 | 3e | 57 | 36 | S | 965 | 0.4 |
| 74 | 28C | haymarket silt loam | 7-15 | 3e | 57 | 36 | S | 425 | 0.2 |
| 75 | 53C | sycoline-kelly complex | 7-15 | 3e | 57 | 36 | 0 | 255 | 0.1 |
| 76 | 13C | catlett-sycoline complex | 7-15 | 4e | 57 | 36 | 0 | 2,160 | 0.9 |
| 77 | 50D | spriggs silt loam | 15-25 | 6e | 52 | 33 | S | 980 | 0.4 |
| 78 | 51D | stumptown very flaggy loam | 7-25 | 6s | 48 | 30 | 0 | 920 | 0.4 |
| 79 | 12D | catlett gravelly silt loam | 15-25 | 6e | 47 | 29 | 0 | 460 | 0.2 |
| 80 | 43D | nestoria gravelly silt loam | 7-25 | 6e | 47 | 29 | 0 | 300 | 0.1 |
| 81 | 55D | watt channery silt loam | 15-25 | 6e | 44 | 28 | 0 | 290 | 0.1 |
| 82 | 18E | dumfries sandy loam | 25-50 | 7e | | 0 | 0 | 3,800 | 1.7 |
| 83 | 44E | occoquan sandy loam | 25-50 | 7e | | 0 | 0 | 2,290 | 1.0 |
| 84 | 23E | gaila sandy loam | 25-50 | 7e | | 0 | 0 | 2,120 | 0.9 |
| 85 | 2E | airmont-weverton complex | 25-50 | 7e | | 0 | 0 | 1,420 | 0.6 |
| 86 | 51E | stumptown very flaggy loam | 25-50 | 7e | | 0 | 0 | 1,080 | 0.5 |
| 87 | 36E | marr very fine sandy loam | 25-50 | 7e | | 0 | 0 | 800 | 0.3 |
| 88 | 43E | nestoria gravelly silt loam | 25-50 | 7e | | 0 | 0 | 770 | 0.3 |
| 89 | 50E | spriggs silt loam | 25-50 | 7e | | 0 | 0 | 710 | 0.3 |
| 90 | NOTCO | not complete | 0- 0 | 0 | | 0 | 0 | 26,749 | 11.7 |
| 91 | 54B | urban land-udorthents complex | 0- 7 | 0 | | 0 | 0 | 3,750 | 1.6 |
| 92 | W | water | 0- 0 | 0 | | 0 | 0 | 1,285 | 0.6 |
| 93 | 55E | watt channery silt loam | 25-50 | 0 | | 0 | 0 | 620 | 0.3 |
| | | | | | | | | 228,900 | |

| Code | Important Farmland |
|---|---|
| 0 | Not prime farmland |
| 1 | All areas are prime farmland |
| 2 | Prime farmland if drained |
| 3 | Prime farmland if protected from flooding or not frequently flooded during the growing season |
| 4 | Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season |
| 6 | Prime farmland if irrigated and drained |
| 7 | Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season |
| 8 | Prime farmland if subsoiled, completely removing the root inhibiting soil layer |
| 9 | Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 |
| 10 | Prime farmland if irrigated and reclaimed of excess salts and sodium |
| S | Farmland of statewide importance |
| L | Farmland of local importance |
| U | Farmland of unique importance |

# LESA Worksheet #2

**Group Number 1**

| map symbl | lc | soil name | slope | nir yld | prd ind | I F | acres number | pct | yield acres | x adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7A | 1 | bermudian | 0- 2 | 160 | 100 | 1 | 2,310 | 1.0 | 369,600 | 160 | 369,600 |
| 35B | 2e | manassas s | 2- 7 | 150 | 94 | 1 | 7,295 | 3.2 | 1,094,250 | 150 | 1,094,250 |
| 21B | 2e | fairfax lo | 2- 7 | 150 | 94 | 1 | 4,120 | 1.8 | 618,000 | 150 | 618,000 |
| | | | | | TOTAL | | 13,725 | 6.0 | 2,081,850 | | 2,081,850 |

Weighted Average Yield = 151.68 Adjusted Weighted Average Yield = 151.68

**Group Number 2**

| map symbl | lc | soil name | slope | nir yld | prd ind | I F | acres number | pct | yield acres | x adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 38B | 2e | meadowvill | 0- 5 | 140 | 88 | 1 | 6,620 | 2.9 | 926,800 | 140 | 926,800 |
| 20B | 2e | elsinboro | 2- 7 | 130 | 81 | 1 | 1,450 | 0.6 | 188,500 | 130 | 188,500 |
| 40B | 2e | montalto s | 2- 7 | 130 | 81 | 1 | 865 | 0.4 | 112,450 | 130 | 112,450 |
| 37A | 2w | marumsco l | 0- 4 | 130 | 81 | 1 | 500 | 0.2 | 65,000 | 130 | 65,000 |
| 52B | 2e | sudley-oat | 2- 7 | 126 | 79 | 1 | 1,715 | 0.7 | 215,447 | 126 | 215,447 |
| 47B | 2e | quantico s | 2- 7 | 120 | 75 | 1 | 2,540 | 1.1 | 304,800 | 120 | 304,800 |
| | | | | | TOTAL | | 13,690 | 6.0 | 1,812,997 | | 1,812,997 |

Weighted Average Yield = 132.43 Adjusted Weighted Average Yield = 132.43

**Group Number 3**

| map symbl | lc | soil name | slope | nir yld | prd ind | I F | acres number | pct | yield acres | x adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4B | 2e | arcola sil | 2- 7 | 110 | 69 | 1 | 16,006 | 7.0 | 1,760,660 | 110 | 1,760,660 |
| 46B | 2e | panorama s | 2- 7 | 110 | 69 | 1 | 5,700 | 2.5 | 627,000 | 110 | 627,000 |
| 24B | 2e | glenelg-bu | 2- 7 | 106 | 66 | 1 | 1,500 | 0.7 | 158,438 | 106 | 158,438 |
| 10B | 2e | buckhall l | 2- 7 | 100 | 63 | 1 | 2,270 | 1.0 | 227,000 | 100 | 227,000 |
| 34B | 2e | lunt loam | 2- 7 | 100 | 63 | 1 | 900 | 0.4 | 90,000 | 100 | 90,000 |
| 19B | 2e | elioak loa | 2- 7 | 100 | 63 | 1 | 875 | 0.4 | 87,500 | 100 | 87,500 |
| 25A | 2w | glenville | 0- 4 | 100 | 63 | 1 | 675 | 0.3 | 67,500 | 100 | 67,500 |
| 17A | 4w | dulles sil | 0- 4 | 100 | 63 | 1 | 4,950 | 2.2 | 495,000 | 100 | 495,000 |
| 33B | 2e | legore-oak | 2- 7 | 94 | 59 | 1 | 1,290 | 0.6 | 121,744 | 94 | 121,744 |
| 30B | 2e | jackland s | 2- 7 | 65 | 41 | 2 | 3,750 | 1.6 | 243,750 | 65 | 243,750 |
| 31B | 2e | jackland-h | 2- 7 | 65 | 41 | 2 | 1,610 | 0.7 | 104,650 | 65 | 104,650 |
| 28B | 2e | haymarket | 2- 7 | 65 | 41 | 1 | 520 | 0.2 | 33,800 | 65 | 33,800 |
| 53B | 2w | sycoline-k | 2- 7 | 65 | 41 | 1 | 3,180 | 1.4 | 206,700 | 65 | 206,700 |
| | | | | | TOTAL | | 43,226 | 18.9 | 4,223,741 | | 4,223,741 |

Weighted Average Yield = 97.71 Adjusted Weighted Average Yield = 97.71

**Group Number 4**

| map symbl | lc soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|
| 16A | 2e delanco fi | 0- 4 | 160 | 100 | S | 2,590 | 1.1 | 414,400 | 160 | 414,400 |
| 21C | 3e fairfax lo | 7-15 | 132 | 83 | S | 1,470 | 0.6 | 194,040 | 132 | 194,040 |
| 8C | 3e braddock l | 7-15 | 114 | 71 | S | 960 | 0.4 | 109,440 | 114 | 109,440 |
| 52C | 3e sudley-oat | 7-15 | 111 | 69 | S | 2,140 | 0.9 | 236,738 | 111 | 236,738 |
| 47C | 3e quantico s | 7-15 | 106 | 66 | S | 2,915 | 1.3 | 308,990 | 106 | 308,990 |
| 46C | 3e panorama s | 7-15 | 97 | 61 | S | 1,110 | 0.5 | 107,670 | 97 | 107,670 |
| 18C | 4s dumfries s | 7-15 | 97 | 61 | S | 920 | 0.4 | 89,240 | 97 | 89,240 |
| 47D | 4e quantico s | 15-25 | 96 | 60 | S | 1,600 | 0.7 | 153,600 | 96 | 153,600 |
| | | | | | TOTAL | 13,705 | 6.0 | 1,614,118 | | 1,614,118 |

Weighted Average Yield = 117.78 Adjusted Weighted Average Yield = 117.78

**Group Number 5**

| map symbl | lc soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|
| 24C | 3e glenelg-bu | 7-15 | 93 | 58 | S | 5,000 | 2.2 | 465,312 | 93 | 465,312 |
| 10C | 3e buckhall l | 7-15 | 88 | 55 | S | 8,500 | 3.7 | 748,000 | 88 | 748,000 |
| 34C | 4e lunt loam | 7-15 | 88 | 55 | S | 1,980 | 0.9 | 174,240 | 88 | 174,240 |
| 36D | 6e marr very | 7-25 | 88 | 55 | S | 515 | 0.2 | 45,320 | 88 | 45,320 |
| 18D | 6s dumfries s | 15-25 | 88 | 55 | S | 2,000 | 0.9 | 176,000 | 88 | 176,000 |
| 9B | 2e brentsvill | 2- 7 | 85 | 53 | S | 355 | 0.2 | 30,175 | 85 | 30,175 |
| 24D | 4e glenelg-bu | 15-25 | 85 | 53 | S | 1,400 | 0.6 | 118,300 | 84 | 118,300 |
| 33C | 3e legore-oak | 7-15 | 83 | 52 | S | 1,515 | 0.7 | 125,934 | 83 | 125,934 |
| 34D | 6e lunt loam | 15-25 | 80 | 50 | S | 1,030 | 0.4 | 82,400 | 80 | 82,400 |
| 33D | 4e legore-oak | 15-25 | 76 | 47 | S | 455 | 0.2 | 34,352 | 76 | 34,352 |
| 23C | 3e gaila sand | 7-15 | 75 | 47 | S | 1,590 | 0.7 | 119,250 | 75 | 119,250 |
| 9C | 3e brentsvill | 7-15 | 75 | 47 | S | 900 | 0.4 | 67,500 | 75 | 67,500 |
| 23D | 4e gaila sand | 15-25 | 68 | 43 | S | 2,300 | 1.0 | 156,400 | 68 | 156,400 |
| 32A | 4w kelly silt | 0- 2 | 65 | 41 | S | 790 | 0.3 | 51,350 | 65 | 51,350 |
| 31C | 3e jackland-h | 7-15 | 57 | 36 | S | 1,300 | 0.6 | 74,100 | 57 | 74,100 |
| 45C | 3e orenda loa | 7-15 | 57 | 36 | S | 965 | 0.4 | 55,005 | 57 | 55,005 |
| 28C | 3e haymarket | 7-15 | 57 | 36 | S | 425 | 0.2 | 24,225 | 57 | 24,225 |
| 50D | 6e spriggs si | 15-25 | 52 | 33 | S | 980 | 0.4 | 50,960 | 52 | 50,960 |
| | | | | | TOTAL | 32,000 | 14.0 | 2,598,824 | | 2,598,824 |

Weighted Average Yield = 81.21 Adjusted Weighted Average Yield = 81.21

**Group Number 6**

| map symbl | lc soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|
| 49A | 2w rowland si | 0- 2 | 160 | 100 | 0 | 1,560 | 0.7 | 249,600 | 160 | 249,600 |
| 15A | 2w comus loam | 0- 2 | 160 | 100 | 0 | 1,275 | 0.6 | 204,000 | 160 | 204,000 |
| 14A | 2w codorus lo | 0- 2 | 160 | 100 | 0 | 990 | 0.4 | 158,400 | 160 | 158,400 |
| 27A | 3w hatboro-co | 0- 2 | 118 | 74 | 0 | 4,100 | 1.8 | 483,031 | 118 | 483,031 |
| 40C | 3e montalto s | 7-15 | 114 | 71 | 0 | 440 | 0.2 | 50,160 | 114 | 50,160 |
| 42B | 2e neabsco-qu | 2- 7 | 100 | 63 | 0 | 1,880 | 0.8 | 188,588 | 100 | 188,588 |
| 39B3 | 3e minnievill | 2- 7 | 91 | 57 | 0 | 295 | 0.1 | 26,845 | 91 | 26,845 |
| | | | | | TOTAL | 10,540 | 4.6 | 1,360,624 | | 1,360,624 |

Weighted Average Yield = 129.09 Adjusted Weighted Average Yield = 129.09

**Group Number 7**

| map symbl | lc soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|
| 19C | 3e elioak loa | 7-15 | 88 | 55 | 0 | 1,000 | 0.4 | 88,000 | 88 | 88,000 |
| 41B | 2e neabsco lo | 0- 7 | 85 | 53 | 0 | 4,155 | 1.8 | 353,175 | 85 | 353,175 |
| 29B | 3w hoadly loa | 2- 7 | 85 | 53 | 0 | 3,320 | 1.5 | 282,200 | 85 | 282,200 |
| 11B | 3w calverton | 0- 7 | 85 | 53 | 0 | 2,030 | 0.9 | 172,550 | 85 | 172,550 |
| 26A | 3w hatboro si | 0- 2 | 85 | 53 | 0 | 605 | 0.3 | 51,425 | 85 | 51,425 |
| 6A | 5w baile loam | 0- 4 | 85 | 53 | 0 | 2,735 | 1.2 | 232,475 | 85 | 232,475 |
| 2B | 6s airmont-we | 2- 7 | 85 | 53 | 0 | 650 | 0.3 | 55,250 | 85 | 55,250 |
| 5C | 3e arcola-nes | 7-15 | 82 | 51 | 0 | 10,610 | 4.6 | 870,020 | 82 | 870,020 |
| 39C3 | 4e minnievill | 7-15 | 80 | 50 | 0 | 750 | 0.3 | 60,000 | 80 | 60,000 |
| 41C | 3e neabsco lo | 7-15 | 75 | 47 | 0 | 1,235 | 0.5 | 92,625 | 75 | 92,625 |
| 2C | 6s airmont-we | 7-15 | 75 | 47 | 0 | 1,300 | 0.6 | 97,500 | 75 | 97,500 |
| 5D | 4e arcola-nes | 15-25 | 75 | 47 | 0 | 2,720 | 1.2 | 202,640 | 74 | 202,640 |
| 44D | 6e occoquan s | 7-25 | 68 | 43 | 0 | 4,600 | 2.0 | 312,800 | 68 | 312,800 |
| 2D | 6s airmont-we | 15-25 | 68 | 43 | 0 | 970 | 0.4 | 65,960 | 68 | 65,960 |
| | | | | TOTAL | | 36,680 | 16.0 | 2,936,620 | | 2,936,620 |

Weighted Average Yield = 80.06 Adjusted Weighted Average Yield = 80.06

**Group Number 8**

| map symbl | lc soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|
| 13B | 3e catlett-sy | 2- 7 | 65 | 41 | 0 | 2,200 | 1.0 | 143,000 | 65 | 143,000 |
| 48A | 3w reaville s | 0- 4 | 65 | 41 | 0 | 1,850 | 0.8 | 120,250 | 65 | 120,250 |
| 1A | 3w aden silt | 0- 2 | 65 | 41 | 0 | 1,270 | 0.6 | 82,550 | 65 | 82,550 |
| 56A | 4w waxpool si | 0- 2 | 65 | 41 | 0 | 5,280 | 2.3 | 343,200 | 65 | 343,200 |
| 3A | 5w albano sil | 0- 4 | 65 | 41 | 0 | 4,050 | 1.8 | 263,250 | 65 | 263,250 |
| 22A | 7w feathersto | 0- 1 | 65 | 41 | 0 | 905 | 0.4 | 58,825 | 65 | 58,825 |
| 53C | 3e sycoline-k | 7-15 | 57 | 36 | 0 | 255 | 0.1 | 14,535 | 57 | 14,535 |
| 13C | 4e catlett-sy | 7-15 | 57 | 36 | 0 | 2,160 | 0.9 | 123,120 | 57 | 123,120 |
| 51D | 6s stumptown | 7-25 | 48 | 30 | 0 | 920 | 0.4 | 44,160 | 48 | 44,160 |
| 12D | 6e catlett gr | 15-25 | 47 | 29 | 0 | 460 | 0.2 | 21,620 | 47 | 21,620 |
| 43D | 6e nestoria g | 7-25 | 47 | 29 | 0 | 300 | 0.1 | 14,100 | 47 | 14,100 |
| 55D | 6e watt chann | 15-25 | 44 | 28 | 0 | 290 | 0.1 | 12,760 | 44 | 12,760 |
| | | | | TOTAL | | 19,940 | 8.7 | 1,241,370 | | 1,241,370 |

Weighted Average Yield = 62.26 Adjusted Weighted Average Yield = 62.26

**Group Number 9**

| map symbl | lc soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|
| 18E | 7e dumfries s | 25-50 | | | 0 | 3,800 | 1.7 | 0 | | 0 |
| 44E | 7e occoquan s | 25-50 | | | 0 | 2,290 | 1.0 | 0 | | 0 |
| 23E | 7e gaila sand | 25-50 | | | 0 | 2,120 | 0.9 | 0 | | 0 |
| 2E | 7e airmont-we | 25-50 | | | 0 | 1,420 | 0.6 | 0 | | 0 |
| 51E | 7e stumptown | 25-50 | | | 0 | 1,080 | 0.5 | 0 | | 0 |
| 36E | 7e marr very | 25-50 | | | 0 | 800 | 0.3 | 0 | | 0 |
| 43E | 7e nestoria g | 25-50 | | | 0 | 770 | 0.3 | 0 | | 0 |
| 50E | 7e spriggs si | 25-50 | | | 0 | 710 | 0.3 | 0 | | 0 |
| | | | | TOTAL | | 12,990 | 5.7 | 0 | | 0 |

Weighted Average Yield = 0.00 Adjusted Weighted Average Yield = 0.00

**UNGROUPED Data**

| map symbl | lc | soil name | slope | nir yld | prd ind | I F | acres number | acres pct | yield x acres | adj yld | adjust product |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOTCO | 0 | not comple | 0- 0 | | | 0 | 26,749 | 11.7 | 0 | | 0 |
| 54B | 0 | urban land | 0- 7 | | | 0 | 3,750 | 1.6 | 0 | | 0 |
| W | 0 | water | 0- 0 | | | 0 | 1,285 | 0.6 | 0 | | 0 |
| 55E | 0 | watt chann | 25-50 | | | 0 | 620 | 0.3 | 0 | | 0 |

**Summary Grouping**

| group | lcc | important farmland | potential or productivity | % | cum'ltv % | acres | cum'ltv acres | relative value |
|---|---|---|---|---|---|---|---|---|
| 1 | 1-2e | prime | 94-100 | 6.0 | 6.0 | 13,725 | 13,725 | 100 |
| 2 | 2e-2w | prime | 75- 88 | 6.0 | 12.0 | 13,690 | 27,415 | 87 |
| 3 | 2e-4w | prime | 41- 69 | 18.9 | 30.9 | 43,226 | 70,641 | 64 |
| 4 | 2e-4s | state | 60-100 | 6.0 | 36.8 | 13,705 | 84,346 | 78 |
| 5 | 2e-6s | state | 33- 58 | 14.0 | 50.8 | 32,000 | 116,346 | 54 |
| 6 | 2e-3w | other | 57-100 | 4.6 | 55.4 | 10,540 | 126,886 | 85 |
| 7 | 2e-6s | other | 43- 55 | 16.0 | 71.5 | 36,680 | 163,566 | 53 |
| 8 | 2e-7w | other | 28- 41 | 8.7 | 80.2 | 19,940 | 183,506 | 41 |
| 9 | 7e | other | - | 5.7 | 85.8 | 12,990 | 196,496 | 0 |

**FPPA acres: 116,346 (50.8% of county )**
**Farmable acres: 183,506 (80.2% of county )**
**Grouped acres: 196,496**
**Total acres: 228,900**

**Note:** The Computer Aided Land Evaluation System (CALES) web site is for NRCS and others responsible for the Land Evaluation portion of a Land Evaluation and Site Assessment (LESA) system. The CALES program requires significant user input and results vary based upon user knowledge and emphasis. Official NRCS Land Evaluation results to be used for the Farmland Protection Policy Act (FPPA) are approved by the NRCS State Conservationist and placed in the Field Office Technical Guide (FOTG). For more information contact your local or state NRCS office. The web site is http://nasis.usda.gov/cales/ .