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 : Warren County, Virginia (VA187)
72 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	1B	berks channery silt loam	2- 7	2e	65	7	0	4,233	3.0
2	1C	berks channery silt loam	7-15	3e	57	6	0	4,858	3.5
3	1D	berks channery silt loam	15-25	4e	52	6	0	854	0.6
4	2B	blairton silt loam	2- 7	3w	85	10	1	1,308	0.9
5	2C	blairton silt loam	7-15	4e	75	9	S	303	0.2
6	3C	buchanan fine sandy loam	7-15	3e	75	9	0	802	0.6
7	4C	buchanan fine sandy loam	7-15	6s		0	0	365	0.3
8	5	buckton silt loam	0- 2	2w	160	18	1	1,015	0.7
9	6C	carbo-endcav silty clay loams	7-15	3e		0	0	1,000	0.7
10	7C	carbo-endcav-rock outcrop com	7-15	3e		0	0	918	0.7
11	8C	cataska channery silt loam	7-15	7s	57	6	0	245	0.2
12	8D	cataska channery silt loam	15-25	7s	52	6	0	1,331	1.0
13	8E	cataska channery silt loam	25-65	7s		0	0	2,318	1.7
14	9	chagrin fine sandy loam	0- 2	2w	160	18	0	2,402	1.7
15	10C	chester loam	7-15	3e	132	15	S	1,915	1.4
16	10D	chester loam	15-25	4e	120	14	S	1,745	1.2
17	10E	chester loam	25-65	7e		0	0	649	0.5
18	11D	chester-manor complex	15-25	6s		0	S	1,399	1.0
19	11E	chester-manor complex	25-60	7s		0	0	9,361	6.7
20	12D	chilhowie silty clay loam	15-25	6e	47	5	0	664	0.5
21	13B	clearbrook channery silt loam	2- 7	4w	65	7	0	557	0.4
22	13C	clearbrook channery silt loam	7-15	4w	57	6	0	546	0.4
23	14	craigsville cobbly sandy loam	0- 5	3w	85	10	0	373	0.3
24	15E	dekalb channery loam	25-65	7e		0	0	3,832	2.7
25	16F	drall-rubble land complex	35-70	7s		0	0	1,295	0.9
26	17B	dyke loam	2- 7	2e	130	15	1	481	0.3
27	17C	dyke loam	7-15	3e	114	13	S	1,260	0.9
28	18B	endcav silt loam	2- 7	2e	100	11	1	681	0.5
29	18C	endcav silt loam	7-15	3e	66	8	S	411	0.3
30	19B	hawksbill cobbly loam	2- 7	3s	85	10	0	1,871	1.3
31	20B	hawksbill very cobbly loam	2- 7	6s	85	10	0	450	0.3
32	20C	hawksbill very cobbly loam	7-15	6s	75	9	0	1,276	0.9
33	21D	lew channery loam	7-25	4e	68	8	0	989	0.7
34	22E	lew loam	25-65	7e		0	0	1,052	0.8
35	23B	lodi silt loam	2- 7	2e	130	15	1	2,708	1.9

line no.	**map symbl**	soil name	slope	lc	nirr yield	prd ind	i f	acres number	pct
36	23C	lodi silt loam	7-15	3e	114	13	S	4,437	3.2
37	23D	lodi silt loam	15-25	4e	104	12	S	2,764	2.0
38	24B	lodi silt loam	2- 7	2e	117	13	1	328	0.2
39	24C	lodi silt loam	7-15	3e	103	12	S	1,277	0.9
40	24D	lodi silt loam	15-25	4e	94	11	S	537	0.4
41	25C	lodi silt loam	7-15	3e		0	0	1,208	0.9
42	25D	lodi silt loam	15-25	4e		0	0	962	0.7
43	26C	lodi-rock outcrop complex	2-15	3e		0	0	721	0.5
44	26E	lodi-rock outcrop complex	15-45	6e		0	0	1,742	1.2
45	27B	millrock loamy fine sand	0- 7	3s	65	7	0	570	0.4
46	28B	monongahela loam	2- 7	2e	100	11	1	962	0.7
47	28C	monongahela loam	7-15	3e	88	10	0	452	0.3
48	29C	montalto loam	7-15	3e	114	13	S	1,120	0.8
49	30C	myersville silt loam	7-15	3e	132	15	S	788	0.6
50	30D	myersville silt loam	15-25	4e	120	14	S	656	0.5
51	31C	myersville-catoctin silt loam	7-15	6s		0	S	778	0.6
52	31D	myersville-catoctin silt loam	15-25	6s		0	S	1,577	1.1
53	31E	myersville-catoctin silt loam	25-65	7e		0	0	8,125	5.8
54	32C	myersville and montalto soils	7-15	6s		0	S	2,235	1.6
55	32D	myersville and montalto soils	15-25	6s		0	S	8,636	6.2
56	32E	myersville and montalto soils	25-65	7e		0	0	8,155	5.8
57	33	newark silt loam	0- 2	2w	65	7	S	897	0.6
58	34	pits	0- 0	0		0	0	587	0.4
59	35	purdy loam	0- 2	4w	65	7	0	630	0.4
60	36E	rigley sandy loam	25-60	7s		0	0	1,396	1.0
61	37D	rigley-weikert-berks complex	15-25	6s		0	S	2,868	2.0
62	38B	sequoia silt loam	2- 7	3e	880	100	1	1,342	1.0
63	38C	sequoia silt loam	7-15	4e	97	11	0	973	0.7
64	39B	unison loam	2- 7	2e	130	15	1	995	0.7
65	39C	unison loam	7-15	3e	114	13	S	2,661	1.9
66	39D	unison loam	15-25	4e	104	12	S	1,427	1.0
67	40C	unison cobbly loam	7-15	3e	114	13	S	321	0.2
68	41C	weikert-berks channery silt l	7-15	4e	57	6	0	1,020	0.7
69	41D	weikert-berks channery silt l	15-25	6e	52	6	0	4,161	3.0
70	41E	weikert-berks channery silt l	25-65	7e		0	0	13,333	9.5
71	42B	zoar silt loam	0- 7	2e	130	15	1	2,455	1.8
72	W	water	0- 0	0		0	0	1,537	1.1
								140,100	

Sorted by Productivity Index (prd ind)

line no.	map symbl	soil name	slope	lc	nirr yield	**prd ind**	i f	acres number	pct
1	38B	sequoia silt loam	2- 7	3e	880	100	1	1,342	1.0
2	9	chagrin fine sandy loam	0- 2	2w	160	18	0	2,402	1.7
3	5	buckton silt loam	0- 2	2w	160	18	1	1,015	0.7
4	10C	chester loam	7-15	3e	132	15	S	1,915	1.4
5	30C	myersville silt loam	7-15	3e	132	15	S	788	0.6
6	23B	lodi silt loam	2- 7	2e	130	15	1	2,708	1.9
7	42B	zoar silt loam	0- 7	2e	130	15	1	2,455	1.8
8	39B	unison loam	2- 7	2e	130	15	1	995	0.7
9	17B	dyke loam	2- 7	2e	130	15	1	481	0.3

line no.	map symbl	soil name	slope	lc	nirr yield	**prd ind**	i f	acres number	pct
10	10D	chester loam	15-25	4e	120	14	S	1,745	1.2
11	30D	myersville silt loam	15-25	4e	120	14	S	656	0.5
12	24B	lodi silt loam	2- 7	2e	117	13	1	328	0.2
13	23C	lodi silt loam	7-15	3e	114	13	S	4,437	3.2
14	39C	unison loam	7-15	3e	114	13	S	2,661	1.9
15	17C	dyke loam	7-15	3e	114	13	S	1,260	0.9
16	29C	montalto loam	7-15	3e	114	13	S	1,120	0.8
17	40C	unison cobbly loam	7-15	3e	114	13	S	321	0.2
18	23D	lodi silt loam	15-25	4e	104	12	S	2,764	2.0
19	39D	unison loam	15-25	4e	104	12	S	1,427	1.0
20	24C	lodi silt loam	7-15	3e	103	12	S	1,277	0.9
21	28B	monongahela loam	2- 7	2e	100	11	1	962	0.7
22	18B	endcav silt loam	2- 7	2e	100	11	1	681	0.5
23	38C	sequoia silt loam	7-15	4e	97	11	0	973	0.7
24	24D	lodi silt loam	15-25	4e	94	11	S	537	0.4
25	28C	monongahela loam	7-15	3e	88	10	0	452	0.3
26	19B	hawksbill cobbly loam	2- 7	3s	85	10	0	1,871	1.3
27	2B	blairton silt loam	2- 7	3w	85	10	1	1,308	0.9
28	14	craigsville cobbly sandy loam	0- 5	3w	85	10	0	373	0.3
29	20B	hawksbill very cobbly loam	2- 7	6s	85	10	0	450	0.3
30	3C	buchanan fine sandy loam	7-15	3e	75	9	0	802	0.6
31	2C	blairton silt loam	7-15	4e	75	9	S	303	0.2
32	20C	hawksbill very cobbly loam	7-15	6s	75	9	0	1,276	0.9
33	21D	lew channery loam	7-25	4e	68	8	0	989	0.7
34	18C	endcav silt loam	7-15	3e	66	8	S	411	0.3
35	1B	berks channery silt loam	2- 7	2e	65	7	0	4,233	3.0
36	33	newark silt loam	0- 2	2w	65	7	S	897	0.6
37	27B	millrock loamy fine sand	0- 7	3s	65	7	0	570	0.4
38	35	purdy loam	0- 2	4w	65	7	0	630	0.4
39	13B	clearbrook channery silt loam	2- 7	4w	65	7	0	557	0.4
40	1C	berks channery silt loam	7-15	3e	57	6	0	4,858	3.5
41	41C	weikert-berks channery silt l	7-15	4e	57	6	0	1,020	0.7
42	13C	clearbrook channery silt loam	7-15	4w	57	6	0	546	0.4
43	8C	cataska channery silt loam	7-15	7s	57	6	0	245	0.2
44	1D	berks channery silt loam	15-25	4e	52	6	0	854	0.6
45	41D	weikert-berks channery silt l	15-25	6e	52	6	0	4,161	3.0
46	8D	cataska channery silt loam	15-25	7s	52	6	0	1,331	1.0
47	12D	chilhowie silty clay loam	15-25	6e	47	5	0	664	0.5
48	25C	lodi silt loam	7-15	3e		0	0	1,208	0.9
49	6C	carbo-endcav silty clay loams	7-15	3e		0	0	1,000	0.7
50	7C	carbo-endcav-rock outcrop com	7-15	3e		0	0	918	0.7
51	26C	lodi-rock outcrop complex	2-15	3e		0	0	721	0.5
52	25D	lodi silt loam	15-25	4e		0	0	962	0.7
53	26E	lodi-rock outcrop complex	15-45	6e		0	0	1,742	1.2
54	32D	myersville and montalto soils	15-25	6s		0	S	8,636	6.2
55	37D	rigley-weikert-berks complex	15-25	6s		0	S	2,868	2.0
56	32C	myersville and montalto soils	7-15	6s		0	S	2,235	1.6
57	31D	myersville-catoctin silt loam	15-25	6s		0	S	1,577	1.1
58	11D	chester-manor complex	15-25	6s		0	S	1,399	1.0
59	31C	myersville-catoctin silt loam	7-15	6s		0	S	778	0.6
60	4C	buchanan fine sandy loam	7-15	6s		0	0	365	0.3
61	41E	weikert-berks channery silt l	25-65	7e		0	0	13,333	9.5
62	32E	myersville and montalto soils	25-65	7e		0	0	8,155	5.8
63	31E	myersville-catoctin silt loam	25-65	7e		0	0	8,125	5.8

line no.	map symbl	soil name	slope	lc	nirr yield	**prd ind**	i f	acres number	pct
64	15E	dekalb channery loam	25-65	7e		0	0	3,832	2.7
65	22E	lew loam	25-65	7e		0	0	1,052	0.8
66	10E	chester loam	25-65	7e		0	0	649	0.5
67	11E	chester-manor complex	25-60	7s		0	0	9,361	6.7
68	8E	cataska channery silt loam	25-65	7s		0	0	2,318	1.7
69	36E	rigley sandy loam	25-60	7s		0	0	1,396	1.0
70	16F	drall-rubble land complex	35-70	7s		0	0	1,295	0.9
71	W	water	0- 0	0		0	0	1,537	1.1
72	34	pits	0- 0	0		0	0	587	0.4
								140,100	

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	acres pct	yield x acres	adj yld	adjust product
5	2w	buckton si	0- 2	160	100	1	1,015	0.7	162,400	160	162,400
23B	2e	lodi silt	2- 7	130	81	1	2,708	1.9	352,040	130	352,040
42B	2e	zoar silt	0- 7	130	81	1	2,455	1.8	319,150	130	319,150
39B	2e	unison loa	2- 7	130	81	1	995	0.7	129,350	130	129,350
17B	2e	dyke loam	2- 7	130	81	1	481	0.3	62,530	130	62,530
					TOTAL		7,654	5.5	1,025,470		1,025,470

Weighted Average Yield = 133.98 Adjusted Weighted Average Yield = 133.98

Group Number 2

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	acres pct	yield x acres	adj yld	adjust product
24B	2e	lodi silt	2- 7	117	73	1	328	0.2	38,376	117	38,376
28B	2e	monongahel	2- 7	100	63	1	962	0.7	96,200	100	96,200
18B	2e	endcav sil	2- 7	100	63	1	681	0.5	68,100	100	68,100
38B	3e	sequoia si	2- 7	88	55	1	1,342	1.0	118,096	88	118,096
2B	3w	blairton s	2- 7	85	53	1	1,308	0.9	111,180	85	111,180
					TOTAL		4,621	3.3	431,952		431,952

Weighted Average Yield = 93.48 Adjusted Weighted Average Yield = 93.48

Group Number 3

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	acres pct	yield x acres	adj yld	adjust product
10C	3e	chester lo	7-15	132	83	S	1,915	1.4	252,780	132	252,780
30C	3e	myersville	7-15	132	83	S	788	0.6	104,016	132	104,016
10D	4e	chester lo	15-25	120	75	S	1,745	1.2	209,400	120	209,400
30D	4e	myersville	15-25	120	75	S	656	0.5	78,720	120	78,720
23C	3e	lodi silt	7-15	114	71	S	4,437	3.2	505,818	114	505,818
39C	3e	unison loa	7-15	114	71	S	2,661	1.9	303,354	114	303,354
17C	3e	dyke loam	7-15	114	71	S	1,260	0.9	143,640	114	143,640
29C	3e	montalto l	7-15	114	71	S	1,120	0.8	127,680	114	127,680
40C	3e	unison cob	7-15	114	71	S	321	0.2	36,594	114	36,594
					TOTAL		14,903	10.6	1,762,002		1,762,002

Weighted Average Yield = 118.23 Adjusted Weighted Average Yield = 118.23

Group Number 4

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield x acres	adj yld	adjust product
23D	4e	lodi silt	15-25	104	65	S	2,764	2.0	287,456	104	287,456
39D	4e	unison loa	15-25	104	65	S	1,427	1.0	148,408	104	148,408
24C	3e	lodi silt	7-15	103	64	S	1,277	0.9	131,531	103	131,531
24D	4e	lodi silt	15-25	94	59	S	537	0.4	50,478	94	50,478
25C	3e	lodi silt	7-15	90	56	S	1,208	0.9	108,720	90	108,720
25D	4e	lodi silt	15-25	80	50	S	962	0.7	76,960	80	76,960
2C	4e	blairton s	7-15	75	47	S	303	0.2	22,725	75	22,725
18C	3e	endcav sil	7-15	66	41	S	411	0.3	27,126	66	27,126
33	2w	newark sil	0- 2	65	41	S	897	0.6	58,305	65	58,305
						TOTAL	9,786	7.0	911,709		911,709

Weighted Average Yield = 93.16 Adjusted Weighted Average Yield = 93.16

Group Number 5

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield x acres	adj yld	adjust product
32D	6s	myersville	15-25			S	8,636	6.2	0		0
37D	6s	rigley-wei	15-25			S	2,868	2.0	0		0
32C	6s	myersville	7-15			S	2,235	1.6	0		0
31D	6s	myersville	15-25			S	1,577	1.1	0		0
11D	6s	chester-ma	15-25			S	1,399	1.0	0		0
31C	6s	myersville	7-15			S	778	0.6	0		0
						TOTAL	17,493	12.5	0		0

Weighted Average Yield = 0.00 Adjusted Weighted Average Yield = 0.00

Group Number 6

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield x acres	adj yld	adjust product
1B	2e	berks chan	2- 7	65	41	0	4,233	3.0	275,145	65	275,145
27B	3s	millrock l	0- 7	65	41	0	570	0.4	37,050	65	37,050
35	4w	purdy loam	0- 2	65	41	0	630	0.4	40,950	65	40,950
13B	4w	clearbrook	2- 7	65	41	0	557	0.4	36,205	65	36,205
1C	3e	berks chan	7-15	57	36	0	4,858	3.5	276,906	57	276,906
41C	4e	weikert-be	7-15	57	36	0	1,020	0.7	58,140	57	58,140
13C	4w	clearbrook	7-15	57	36	0	546	0.4	31,122	57	31,122
8C	7s	cataska ch	7-15	57	36	0	245	0.2	13,965	57	13,965
1D	4e	berks chan	15-25	52	33	0	854	0.6	44,408	52	44,408
41D	6e	weikert-be	15-25	52	33	0	4,161	3.0	216,372	52	216,372
8D	7s	cataska ch	15-25	52	33	0	1,331	1.0	69,212	52	69,212
12D	6e	chilhowie	15-25	47	29	0	664	0.5	31,208	47	31,208
						TOTAL	19,669	14.0	1,130,683		1,130,683

Weighted Average Yield = 57.49 Adjusted Weighted Average Yield = 57.49

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
9	2w	chagrin fi	0- 2	160	100	0	2,402	1.7	384,320	160	384,320
38C	4e	sequoia si	7-15	97	61	0	973	0.7	94,381	97	94,381
28C	3e	monongahel	7-15	88	55	0	452	0.3	39,776	88	39,776
19B	3s	hawksbill	2- 7	85	53	0	1,871	1.3	159,035	85	159,035
14	3w	craigsvill	0- 5	85	53	0	373	0.3	31,705	85	31,705
20B	6s	hawksbill	2- 7	85	53	0	450	0.3	38,250	85	38,250
3C	3e	buchanan f	7-15	75	47	0	802	0.6	60,150	75	60,150
20C	6s	hawksbill	7-15	75	47	0	1,276	0.9	95,700	75	95,700
21D	4e	lew channe	7-25	68	43	0	989	0.7	67,252	68	67,252
					TOTAL		9,588	6.8	970,569		970,569

Weighted Average Yield = 101.23 Adjusted Weighted Average Yield = 101.23

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
6C	3e	carbo-endc	7-15			0	1,000	0.7	0		0
7C	3e	carbo-endc	7-15			0	918	0.7	0		0
26C	3e	lodi-rock	2-15			0	721	0.5	0		0
26E	6e	lodi-rock	15-45			0	1,742	1.2	0		0
4C	6s	buchanan f	7-15			0	365	0.3	0		0
41E	7e	weikert-be	25-65			0	13,333	9.5	0		0
32E	7e	myersville	25-65			0	8,155	5.8	0		0
31E	7e	myersville	25-65			0	8,125	5.8	0		0
15E	7e	dekalb cha	25-65			0	3,832	2.7	0		0
22E	7e	lew loam	25-65			0	1,052	0.8	0		0
10E	7e	chester lo	25-65			0	649	0.5	0		0
11E	7s	chester-ma	25-60			0	9,361	6.7	0		0
8E	7s	cataska ch	25-65			0	2,318	1.7	0		0
36E	7s	rigley san	25-60			0	1,396	1.0	0		0
16F	7s	drall-rubb	35-70			0	1,295	0.9	0		0
					TOTAL		54,262	38.7	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
W	0	water	0- 0			0	1,537	1.1	0		0
34	0	pits	0- 0			0	587	0.4	0		0

Summary Grouping

group	lcc	important farmland	potential or productivity	%	cum'ltv %	acres	cum'ltv acres	relative value
1	2e-2w	prime	81-100	5.5	5.5	7,654	7,654	100
2	2e-3w	prime	53- 73	3.3	8.8	4,621	12,275	70
3	3e-4e	state	71- 83	10.6	19.4	14,903	27,178	88
4	2w-4e	state	41- 65	7.0	26.4	9,786	36,964	70
5	6s	state	-	12.5	38.9	17,493	54,457	0
6	2e-7s	other	29- 41	14.0	52.9	19,669	74,126	43
7	2w-6s	other	43-100	6.8	59.8	9,588	83,714	76
8	3e-7s	other	-	38.7	98.5	54,262	137,976	0

FPPA acres: 54,457 (38.9% of county)
Farmable acres: 66,221 (47.3% of county)
Grouped acres: 137,976
Total acres: 140,100

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/ .