LESA Worksheet #1

NOTE: The soil mapunits shown are for the selected area. Unless modified with the edit function, 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.

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Survey Area : king william county, virginia (VA101)
              48 mapunits

Indicator crop     : corn
Temperature Regime : thermic
C factor           : 0.00
System irrigated?  : no
Minimum Component  : 15%
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line no.	map symbl	soil name	slope	lc	nirr yield	prd ind	i f	acres number	acres pct
1	1A	altavista loamy sand	0- 2	2w	160	100	1	7,563	4.1
2	1B	altavista fine sandy loam	2- 6	2e	160	100	1	1,433	0.8
3	2A	bama loam	0- 2	1	120	75	1	140	0.1
4	2B	bama loam	2- 6	2e	120	75	1	5,209	2.8
5	3A	bibb and kinston soils	0- 2	5w		0	0	8,805	4.8
6	4A	bohicket silty clay loam	0- 1	8w		0	0	3,446	1.9
7	5A	bojac gravelly loamy sand	0- 2	2s	77	48	0	306	0.2
8	6A	bojac fine sandy loam	0- 2	1	85	53	1	1,288	0.7
9	6B	bojac fine sandy loam	2- 6	2e	85	53	1	135	0.1
10	7A	catpoint sand	0- 4	3s	65	41	0	87	0.0
11	8A	conetoe loamy fine sand	0- 4	2s	85	53	1	1,346	0.7
12	9A	daleville silt loam	0- 2	4w	65	41	2	4,935	2.7
13	10A	emporia fine sandy loam	0- 2	1	120	75	1	362	0.2
14	10B	emporia fine sandy loam	2- 6	2e	120	75	1	14,692	8.0
15	11A	eulonia fine sandy loam	0- 2	2w	85	53	1	2,492	1.4
16	11B	eulonia fine sandy loam	2- 6	2e	85	53	1	1,187	0.6
17	12A	eunola sandy loam	0- 2	2w	110	69	1	1,982	1.1
18	12B	eunola sandy loam	2- 6	2e	110	69	1	1,286	0.7
19	13A	kempsville sandy loam	0- 2	1	120	75	1	357	0.2
20	13B	kempsville sandy loam	2- 6	2e	120	75	1	13,054	7.1
21	14A	kenansville sand	0- 4	3s	85	53	0	349	0.2
22	15A	lanexa mucky silty clay loam	0- 1	7w		0	0	1,634	0.9
23	16A	mattan mucky silty clay loam	0- 1	7w		0	0	6,237	3.4
24	17A	munden loamy sand	0- 2	2w	140	88	1	880	0.5
25	18A	myatt loam	0- 2	4w	65	41	2	278	0.2
26	19A	nansemond loamy fine sand	0- 2	2w	140	88	4	263	0.1
27	20A	osier loamy fine sand	0- 2	4w	140	88	0	629	0.3
28	21A	pactolus loamy sand	0- 2	3s	85	53	0	696	0.4
29	22D	remlik and nevarc soils	6-15	4e	68	43	0	13,466	7.4
30	22F	remlik and nevarc soils	15-60	7e		0	0	23,168	12.7
31	23A	riverview loamy fine sand	0- 2	2w	140	88	0	822	0.4

32	24A	roanoke silt loam	0- 2	4w	65	41	0	3,357	1.8
33	25A	seabrook loamy fine sand	0- 2	3s	85	53	4	2,885	1.6
34	26A	slagle loam	0- 2	2w	130	81	1	11,283	6.2
35	26B	slagle loam	2- 6	2e	130	81	1	10,406	5.7
36	27A	state loamy fine sand	0- 2	1	160	100	1	4,515	2.5
37	27B	state loamy fine sand	2- 6	2e	160	100	1	1,189	0.7
38	28A	suffolk and rumford soils	0- 2	1	98	61	1	649	0.4
39	28B	suffolk and rumford soils	2- 6	2e	98	61	1	5,540	3.0
40	29B	tarboro sand	0- 6	3s	65	41	4	2,009	1.1
41	29D	tarboro sand	6-15	4s	52	33	0	2,226	1.2
42	29F	tarboro sand	15-50	6e		0	0	1,782	1.0
43	30A	tomotley fine sandy loam	0- 2	4w	65	41	2	6,675	3.7
44	31B	udorthents	0- 6	0		0	0	551	0.3
45	32A	wehadkee loam	0- 2	6w		0	0	2,408	1.3
46	33A	wickham loamy fine sand	0- 2	1	160	100	1	593	0.3
47	33B	wickham loamy fine sand	2- 6	2e	160	100	1	433	0.2
48	W	water	0- 0	0		0	0	7,772	4.3
								182,800	

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

Survey Area : king william county, virginia (VA101)

Group Number 1

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield x acres	adj yld	adjust product
1A	2w	altavista	0- 2	160	100	1	7,563	4.1	1,210,080	160	1,210,080
1B	2e	altavista	2- 6	160	100	1	1,433	0.8	229,280	160	229,280
17A	2w	munden loa	0- 2	140	88	1	880	0.5	123,200	140	123,200
19A	2w	nansemond	0- 2	140	88	4	263	0.1	36,820	140	36,820
27A	1	state loam	0- 2	160	100	1	4,515	2.5	722,400	160	722,400
27B	2e	state loam	2- 6	160	100	1	1,189	0.7	190,240	160	190,240
33A	1	wickham lo	0- 2	160	100	1	593	0.3	94,880	160	94,880
33B	2e	wickham lo	2- 6	160	100	1	433	0.2	69,280	160	69,280
					TOTAL		16,869	9.2	2,676,180		2,676,180

Weighted Average Yield = 158.64 Adjusted Weighted Average Yield = 158.64

Group Number 2

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield x acres	adj yld	adjust product
20A	4w	osier loam	0- 2	140	88	0	629	0.3	88,060	140	88,060
23A	2w	riverview	0- 2	140	88	0	822	0.4	115,080	140	115,080
					TOTAL		1,451	0.8	203,140		203,140

Weighted Average Yield = 140.00 Adjusted Weighted Average Yield = 140.00

Group Number 3

map symbl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield x acres	adj yld	adjust product
2A	1	bama loam	0- 2	120	75	1	140	0.1	16,800	120	16,800
2B	2e	bama loam	2- 6	120	75	1	5,209	2.8	625,080	120	625,080
10A	1	emporia fi	0- 2	120	75	1	362	0.2	43,440	120	43,440
10B	2e	emporia fi	2- 6	120	75	1	14,692	8.0	1,763,040	120	1,763,040
13A	1	kempsville	0- 2	120	75	1	357	0.2	42,840	120	42,840
13B	2e	kempsville	2- 6	120	75	1	13,054	7.1	1,566,480	120	1,566,480
26A	2w	slagle loa	0- 2	130	81	1	11,283	6.2	1,466,790	130	1,466,790

26B	2e	slagle loa	2- 6	130	81	1	10,406	5.7	1,352,780	130	1,352,780
						TOTAL	55,503	30.4	6,877,250		6,877,250

Weighted Average Yield = 123.91 Adjusted Weighted Average Yield = 123.91

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
6A	1	bojac fine	0- 2	85	53	1	1,288	0.7	109,480	85	109,480
6B	2e	bojac fine	2- 6	85	53	1	135	0.1	11,475	85	11,475
8A	2s	conetoe lo	0- 4	85	53	1	1,346	0.7	114,410	85	114,410
9A	4w	daleville	0- 2	65	41	2	4,935	2.7	320,775	65	320,775
11A	2w	eulonia fi	0- 2	85	53	1	2,492	1.4	211,820	85	211,820
11B	2e	eulonia fi	2- 6	85	53	1	1,187	0.6	100,895	85	100,895
12A	2w	eunola san	0- 2	110	69	1	1,982	1.1	218,020	110	218,020
12B	2e	eunola san	2- 6	110	69	1	1,286	0.7	141,460	110	141,460
18A	4w	myatt loam	0- 2	65	41	2	278	0.2	18,070	65	18,070
25A	3s	seabrook l	0- 2	85	53	4	2,885	1.6	245,225	85	245,225
28A	1	suffolk an	0- 2	98	61	1	649	0.4	63,818	98	63,818
28B	2e	suffolk an	2- 6	98	61	1	5,540	3.0	544,767	98	544,767
29B	3s	tarboro sa	0- 6	65	41	4	2,009	1.1	130,585	65	130,585
30A	4w	tomotley f	0- 2	65	41	2	6,675	3.7	433,875	65	433,875
						TOTAL	32,687	17.9	2,664,675		2,664,675

Weighted Average Yield = 81.52 Adjusted Weighted Average Yield = 81.52

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
5A	2s	bojac grav	0- 2	77	48	0	306	0.2	23,562	77	23,562
7A	3s	catpoint s	0- 4	65	41	0	87	0.0	5,655	65	5,655
14A	3s	kenansvill	0- 4	85	53	0	349	0.2	29,665	85	29,665
21A	3s	pactolus l	0- 2	85	53	0	696	0.4	59,160	85	59,160
22D	4e	remlik and	6-15	68	43	0	13,466	7.4	915,688	68	915,688
24A	4w	roanoke si	0- 2	65	41	0	3,357	1.8	218,205	65	218,205
29D	4s	tarboro sa	6-15	52	33	0	2,226	1.2	115,752	52	115,752
						TOTAL	20,487	11.2	1,367,687		1,367,687

Weighted Average Yield = 66.76 Adjusted Weighted Average Yield = 66.76

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
3A	5w	bibb and k	0- 2			0	8,805	4.8	0		0
4A	8w	bohicket s	0- 1			0	3,446	1.9	0		0
15A	7w	lanexa muc	0- 1			0	1,634	0.9	0		0
16A	7w	mattan muc	0- 1			0	6,237	3.4	0		0
22F	7e	remlik and	15-60			0	23,168	12.7	0		0
29F	6e	tarboro sa	15-50			0	1,782	1.0	0		0
32A	6w	wehadkee l	0- 2			0	2,408	1.3	0		0
			TOTAL				47,480	26.0	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
31B	0	udorthents	0- 6			0	551	0.3	0		0
W	0	water	0- 0			0	7,772	4.3	0		0

Worksheet 2

Survey Area : king william county, virginia (VA101)

group	lcc	important farmland	potential or productivity	cum'ltv %	cum'ltv %	acres	cum'ltv acres	relative value
1	1-4w	prime	88-100	9.2	9.2	16,869	16,869	100
2	2w-4w	other	88- 88	0.8	10.0	1,451	18,320	88
3	1-2w	prime	75- 81	30.4	40.4	55,503	73,823	78
4	1-4w	prime	41- 69	17.9	58.3	32,687	106,510	51
5	2s-4s	other	33- 53	11.2	69.5	20,487	126,997	42
6	5w-8w	other	-	26.0	95.4	47,480	174,477	0

FPPA acres: 105,059 (57.5% of county)
Farmable acres: 126,997 (69.5% of county)
Grouped acres: 174,477
Total acres: 182,800

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.