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 : new kent county, virginia (VA127)
              49 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 fine sandy loam	0- 2	2w	160	100	1	3,137	2.2
2	2A	altavista-dogue complex	0- 2	2w	149	93	1	2,693	1.9
3	3A	augusta fine sandy loam	0- 2	4w	100	63	2	727	0.5
4	4A	bohicket muck	0- 1	8w		0	0	4,005	2.8
5	5A	bojac loamy sand	0- 2	2s	85	53	0	701	0.5
6	6B	caroline loam	2- 6	2e	100	63	1	482	0.3
7	7B	caroline-emporia complex	2- 6	2e	109	68	1	9,464	6.7
8	7C	caroline-emporia complex	6-10	3e	96	60	S	1,723	1.2
9	8A	catpoint fine sand	0- 4	3s	65	41	0	533	0.4
10	9A	conetoe loamy sand	0- 4	2s	85	53	0	567	0.4
11	10B	craven loam	2- 6	2e	85	53	1	444	0.3
12	10C	craven loam	6-10	3e	75	47	S	2,064	1.5
13	11B	craven-caroline complex	2- 6	2e	91	57	1	1,942	1.4
14	12B	craven-uchee complex	2- 6	2e	85	53	S	231	0.2
15	13A	dogue fine sandy loam	0- 2	2w	130	81	1	2,138	1.5
16	14A	dragston fine sandy loam	0- 2	4w	140	88	2	442	0.3
17	15B	emporia fine sandy loam	2- 6	2e	120	75	1	1,691	1.2
18	16A	johnston mucky loam	0- 2	7w		0	0	5,890	4.2
19	17B	kempsville fine sandy loam	2- 6	2e	120	75	1	1,396	1.0
20	18B	kempsville gravelly fine sand	2- 6	2e	108	68	S	376	0.3
21	19B	kempsville-emporia complex	2- 6	2e	120	75	1	10,536	7.5
22	19C	kempsville-emporia complex	6-10	3e	115	72	S	740	0.5
23	20B	kempsville-suffolk complex	2- 6	2e	116	73	1	2,278	1.6
24	21A	lanexa mucky silty clay	0- 1	7w		0	0	4,650	3.3
25	22A	mattan muck	0- 1	7w		0	0	3,680	2.6
26	23A	munden sandy loam	0- 2	2w	140	88	1	444	0.3
27	24A	nawney silt loam	0- 2	7w		0	0	1,106	0.8
28	25A	nawney silt loam	0- 2	7w		0	0	911	0.6
29	26D	nevarc-remlik complex	6-15	4e	68	43	S	22,831	16.1
30	26E	nevarc-remlik complex	15-25	6e		0	0	18,140	12.8
31	26F	nevarc-remlik complex	25-60	7e		0	0	11,980	8.5

32	27A	nimmo fine sandy loam	0- 2	4w	140	88	2	232	0.2
33	28B	norfolk fine sandy loam	2- 6	2e	120	75	1	369	0.3
34	29B	orangeburg fine sandy loam	2- 6	2e	120	75	1	386	0.3
35	30A	pamunkey fine sandy loam	0- 2	1	160	100	1	207	0.1
36	30B	pamunkey fine sandy loam	2- 6	2e	160	100	1	1,387	1.0
37	31A	roanoke silt loam	0- 2	4w	65	41	0	1,842	1.3
38	32A	seabrook loamy sand	0- 2	3s	85	53	0	1,207	0.9
39	33A	slagle fine sandy loam	0- 2	2w	130	81	1	1,371	1.0
40	34B	slagle-emporia complex	2- 6	2e	126	79	1	3,881	2.7
41	35A	state very fine sandy loam	0- 2	1	160	100	1	903	0.6
42	36B	suffolk fine sandy loam	2- 6	2e	110	69	1	326	0.2
43	37A	tarboro loamy sand	0- 4	3s	65	41	0	332	0.2
44	38A	tetotum loam	0- 2	2w	130	81	1	587	0.4
45	39A	tomotley loam	0- 2	4w	65	41	2	1,883	1.3
46	40B	uchee loamy fine sand	2- 6	2s	85	53	0	313	0.2
47	41B	udorthents	0- 0	0		0	0	931	0.7
48	42A	wahee silt loam	0- 2	2w	65	41	S	1,155	0.8
49	W	water	0- 0	0		0	0	6,126	4.3
								141,380	

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 : new kent county, virginia (VA127)

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	3,137	2.2	501,920	160	501,920
2A	2w	altavista-	0- 2	149	93	1	2,693	1.9	400,584	149	400,584
30A	1	pamunkey f	0- 2	160	100	1	207	0.1	33,120	160	33,120
30B	2e	pamunkey f	2- 6	160	100	1	1,387	1.0	221,920	160	221,920
35A	1	state very	0- 2	160	100	1	903	0.6	144,480	160	144,480
						TOTAL	8,327	5.9	1,302,024		1,302,024

Weighted Average Yield = 156.36 Adjusted Weighted Average Yield = 156.36

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
13A	2w	dogue fine	0- 2	130	81	1	2,138	1.5	277,940	130	277,940
14A	4w	dragston f	0- 2	140	88	2	442	0.3	61,880	140	61,880
15B	2e	emporia fi	2- 6	120	75	1	1,691	1.2	202,920	120	202,920
17B	2e	kempsville	2- 6	120	75	1	1,396	1.0	167,520	120	167,520
19B	2e	kempsville	2- 6	120	75	1	10,536	7.5	1,264,320	120	1,264,320
20B	2e	kempsville	2- 6	116	73	1	2,278	1.6	264,248	116	264,248
23A	2w	munden san	0- 2	140	88	1	444	0.3	62,160	140	62,160
27A	4w	nimmo fine	0- 2	140	88	2	232	0.2	32,480	140	32,480
28B	2e	norfolk fi	2- 6	120	75	1	369	0.3	44,280	120	44,280
29B	2e	orangeburg	2- 6	120	75	1	386	0.3	46,320	120	46,320
33A	2w	slagle fin	0- 2	130	81	1	1,371	1.0	178,230	130	178,230
34B	2e	slagle-emp	2- 6	126	79	1	3,881	2.7	488,549	126	488,549
38A	2w	tetotum lo	0- 2	130	81	1	587	0.4	76,310	130	76,310
						TOTAL	25,751	18.2	3,167,157		3,167,157

Weighted Average Yield = 122.99 Adjusted Weighted Average Yield = 122.99

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

7C	3e	caroline-e	6-10	96	60	S	1,723	1.2	166,097	96	166,097
12B	2e	craven-uch	2- 6	85	53	S	231	0.2	19,635	85	19,635
18B	2e	kempsville	2- 6	108	68	S	376	0.3	40,608	108	40,608
19C	3e	kempsville	6-10	115	72	S	740	0.5	84,915	115	84,915
						TOTAL	3,070	2.2	311,255		311,255

Weighted Average Yield = 101.39 Adjusted Weighted Average Yield = 101.39

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
3A	4w	augusta fi	0- 2	100	63	2	727	0.5	72,700	100	72,700
6B	2e	caroline l	2- 6	100	63	1	482	0.3	48,200	100	48,200
7B	2e	caroline-e	2- 6	109	68	1	9,464	6.7	1,034,731	109	1,034,731
10B	2e	craven loa	2- 6	85	53	1	444	0.3	37,740	85	37,740
11B	2e	craven-car	2- 6	91	57	1	1,942	1.4	176,274	91	176,274
36B	2e	suffolk fi	2- 6	110	69	1	326	0.2	35,860	110	35,860
39A	4w	tomotley l	0- 2	65	41	2	1,883	1.3	122,395	65	122,395
						TOTAL	15,268	10.8	1,527,900		1,527,900

Weighted Average Yield = 100.07 Adjusted Weighted Average Yield = 100.07

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 loam	0- 2	85	53	0	701	0.5	59,585	85	59,585
8A	3s	catpoint f	0- 4	65	41	0	533	0.4	34,645	65	34,645
9A	2s	conetoe lo	0- 4	85	53	0	567	0.4	48,195	85	48,195
31A	4w	roanoke si	0- 2	65	41	0	1,842	1.3	119,730	65	119,730
32A	3s	seabrook l	0- 2	85	53	0	1,207	0.9	102,595	85	102,595
37A	3s	tarboro lo	0- 4	65	41	0	332	0.2	21,580	65	21,580
40B	2s	uchee loam	2- 6	85	53	0	313	0.2	26,605	85	26,605
						TOTAL	5,495	3.9	412,935		412,935

Weighted Average Yield = 75.15 Adjusted Weighted Average Yield = 75.15

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

10C	3e	craven loa	6-10	75	47	S	2,064	1.5	154,800	75	154,800
26D	4e	nevarc-rem	6-15	68	43	S	22,831	16.1	1,552,508	68	1,552,508
42A	2w	wahee silt	0- 2	65	41	S	1,155	0.8	75,075	65	75,075
						TOTAL	26,050	18.4	1,782,383		1,782,383

Weighted Average Yield = 68.42 Adjusted Weighted Average Yield = 68.42

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
4A	8w	bohicket m	0- 1		0		4,005	2.8	0		0
16A	7w	johnston m	0- 2		0		5,890	4.2	0		0
21A	7w	lanexa muc	0- 1		0		4,650	3.3	0		0
22A	7w	mattan muc	0- 1		0		3,680	2.6	0		0
24A	7w	nawney sil	0- 2		0		1,106	0.8	0		0
25A	7w	nawney sil	0- 2		0		911	0.6	0		0
26E	6e	nevarc-rem	15-25		0		18,140	12.8	0		0
26F	7e	nevarc-rem	25-60		0		11,980	8.5	0		0
						TOTAL	50,362	35.6	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
41B	0	udorthents	0- 0		0		931	0.7	0		0
W	0	water	0- 0		0		6,126	4.3	0		0

Worksheet 2

Survey Area : new kent county, virginia (VA127)

group	lcc	important farmland	potential or productivity	%	cum'ltv %	acres	cum'ltv acres	relative value
1	1-2w	prime	93-100	5.9	5.9	8,327	8,327	100
2	2e-4w	prime	73- 88	18.2	24.1	25,751	34,078	79
3	2e-3e	state	53- 72	2.2	26.3	3,070	37,148	65
4	2e-4w	prime	41- 69	10.8	37.1	15,268	52,416	64
5	2s-4w	other	41- 53	3.9	41.0	5,495	57,911	48
6	2w-4e	state	41- 47	18.4	59.4	26,050	83,961	44
7	6e-8w	other	-	35.6	95.0	50,362	134,323	0

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FPPA acres:          78,466 (55.5% of county )
Farmable acres:      83,961 (59.4% of county )
Grouped acres:      134,323
Total acres:        141,380
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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.