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 : northumberland and lancaster counties, virginia (VA133)
              51 mapunits

Indicator crop     : corn
Temperature Regime : mesic
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	pct
1	BeA	beltsville very fine sandy lo	0- 2	2w	85	61	0	1,546	0.6
2	BeB	beltsville very fine sandy lo	2- 5	3s	85	61	0	79	0.0
3	BeB2	beltsville very fine sandy lo	2- 6	3s	68	49	0	1,028	0.4
4	Br	bertie silt loam	0- 2	2w	130	93	1	5,925	2.5
5	Bt	bladen silt loam	0- 2	3w	65	46	0	193	0.1
6	CaC3	caroline clay loam	6-10	6e	88	63	0	155	0.1
7	CaD3	caroline clay loam	10-15	6e	80	57	0	182	0.1
8	CfB2	caroline very fine sandy loam	2- 6	2e	100	71	1	474	0.2
9	CfC2	caroline very fine sandy loam	6-10	4e	88	63	S	362	0.2
10	Co	coastal beach	0- 1	8e		0	0	927	0.4
11	CrD3	craven clay loam	10-12	6e	68	49	0	323	0.1
12	CsA	craven silt loam	0- 2	2w	85	61	S	659	0.3
13	CsB2	craven silt loam	2- 6	2e	78	56	1	516	0.2
14	CsC2	craven silt loam	6-10	4e	75	54	S	152	0.1
15	Dr	dragston fine sandy loam	0- 2	2w	140	100	2	5,309	2.2
16	Ek	elkton silt loam	0- 2	3w	65	46	0	208	0.1
17	Fa	fallsington fine sandy loam	0- 2	3w	140	100	2	3,571	1.5
18	KeA	kempsville fine sandy loam	0- 2	1	120	86	1	4,465	1.9
19	KeB	kempsville fine sandy loam	2- 6	2e	120	86	1	3,993	1.7
20	KeB2	kempsville fine sandy loam	2- 6	2e	110	79	1	924	0.4
21	KeC2	kempsville fine sandy loam	6-10	3e	106	76	S	286	0.1
22	KeC3	kempsville fine sandy loam	6-10	4e	106	76	0	149	0.1
23	LaB	lakeland loamy fine sand	2- 6	3s	65	46	0	786	0.3
24	Le	lenoir silt loam	0- 2	3w	65	46	S	250	0.1
25	Lo	local alluvial land	0- 2	2w		0	0	304	0.1
26	MaA	matapeake silt loam	0- 2	1	120	86	1	8,295	3.5
27	MaB	matapeake silt loam	2- 6	2e	120	86	1	25	0.0
28	MaB2	matapeake silt loam	2- 6	2e	110	79	1	197	0.1
29	MaC2	matapeake silt loam	6-10	3e	106	76	S	1,000	0.4
30	MaD2	matapeake silt loam	10-15	4e	96	69	S	129	0.1
31	Mt	mattapex silt loam	0- 2	2w	130	93	1	8,747	3.6

32	Mx	mixed alluvial land	0- 2	5w		0	0	8,951	3.7
33	Ot	othello silt loam	0- 2	3w	65	46	0	9,634	4.0
34	RtB	rumford loamy sand	2-10	3s	80	57	S	174	0.1
35	RuB	rumford loamy sand	2- 6	2s	85	61	S	738	0.3
36	RuC2	rumford loamy sand	6-10	3e	85	61	S	289	0.1
37	SaA	sassafras fine sandy loam	0- 2	1	110	79	1	17,461	7.3
38	SaB	sassafras fine sandy loam	2- 6	2e	110	79	1	38,126	15.9
39	SaB2	sassafras fine sandy loam	2- 6	2e	105	75	1	2,308	1.0
40	SaC2	sassafras fine sandy loam	6-10	3e	95	68	S	3,750	1.6
41	SaC3	sassafras fine sandy loam	6-10	4e	97	69	0	1,641	0.7
42	SaD2	sassafras fine sandy loam	10-15	4e	88	63	S	533	0.2
43	SaD3	sassafras fine sandy loam	10-15	6e	88	63	0	354	0.1
44	SfA	sassafras loamy fine sand	0- 2	2s	110	79	S	6,324	2.6
45	SfB	sassafras loamy fine sand	2- 6	2s	110	79	S	4,098	1.7
46	SsD	sloping sandy land	6-15	4e		0	0	15,746	6.6
47	StE	steep sandy land	15-45	6e		0	0	42,810	17.8
48	Th	tidal marsh	0- 1	8w		0	0	215	0.1
49	To	tidal marsh	0- 1	8w		0	0	3,936	1.6
50	W	water	0- 0	0		0	0	21,760	9.1
51	Wo	woodstown fine sandy loam	0- 2	2w	130	93	1	10,370	4.3
								240,377	

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 : northumberland and lancaster counties, virginia (VA133)

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
Br	2w	bertie sil	0- 2	130	93	1	5,925	2.5	770,250	130	770,250
Dr	2w	dragston f	0- 2	140	100	2	5,309	2.2	743,260	140	743,260
Fa	3w	fallsingto	0- 2	140	100	2	3,571	1.5	499,940	140	499,940
KeA	1	kempsville	0- 2	120	86	1	4,465	1.9	535,800	120	535,800
KeB	2e	kempsville	2- 6	120	86	1	3,993	1.7	479,160	120	479,160
MaA	1	matapeake	0- 2	120	86	1	8,295	3.5	995,400	120	995,400
MaB	2e	matapeake	2- 6	120	86	1	25	0.0	3,000	120	3,000
Mt	2w	mattapex s	0- 2	130	93	1	8,747	3.6	1,137,110	130	1,137,110
Wo	2w	woodstown	0- 2	130	93	1	10,370	4.3	1,348,100	130	1,348,100
					TOTAL		50,700	21.1	6,512,020		6,512,020

Weighted Average Yield = 128.44 Adjusted Weighted Average Yield = 128.44

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
CfB2	2e	caroline v	2- 6	100	71	1	474	0.2	47,400	100	47,400
CsB2	2e	craven sil	2- 6	78	56	1	516	0.2	40,248	78	40,248
KeB2	2e	kempsville	2- 6	110	79	1	924	0.4	101,640	110	101,640
MaB2	2e	matapeake	2- 6	110	79	1	197	0.1	21,670	110	21,670
SaA	1	sassafras	0- 2	110	79	1	17,461	7.3	1,920,710	110	1,920,710
SaB	2e	sassafras	2- 6	110	79	1	38,126	15.9	4,193,860	110	4,193,860
SaB2	2e	sassafras	2- 6	105	75	1	2,308	1.0	242,340	105	242,340
					TOTAL		60,006	25.0	6,567,868		6,567,868

Weighted Average Yield = 109.45 Adjusted Weighted Average Yield = 109.45

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
CfC2	4e	caroline v	6-10	88	63	S	362	0.2	31,856	88	31,856

CsA	2w	craven sil	0- 2	85	61	S	659	0.3	56,015	85	56,015
CsC2	4e	craven sil	6-10	75	54	S	152	0.1	11,400	75	11,400
KeC2	3e	kempsville	6-10	106	76	S	286	0.1	30,316	106	30,316
Le	3w	lenoir sil	0- 2	65	46	S	250	0.1	16,250	65	16,250
MaC2	3e	matapeake	6-10	106	76	S	1,000	0.4	106,000	106	106,000
MaD2	4e	matapeake	10-15	96	69	S	129	0.1	12,384	96	12,384
RtB	3s	rumford lo	2-10	80	57	S	174	0.1	13,920	80	13,920
RuB	2s	rumford lo	2- 6	85	61	S	738	0.3	62,730	85	62,730
RuC2	3e	rumford lo	6-10	85	61	S	289	0.1	24,565	85	24,565
SaC2	3e	sassafras	6-10	95	68	S	3,750	1.6	356,250	95	356,250
SaD2	4e	sassafras	10-15	88	63	S	533	0.2	46,904	88	46,904
SfA	2s	sassafras	0- 2	110	79	S	6,324	2.6	695,640	110	695,640
SfB	2s	sassafras	2- 6	110	79	S	4,098	1.7	450,780	110	450,780
				TOTAL			18,744	7.8	1,915,010		1,915,010

Weighted Average Yield = 102.17 Adjusted Weighted Average Yield = 102.17

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
BeA	2w	beltsville	0- 2	85	61	0	1,546	0.6	131,410	85	131,410
BeB	3s	beltsville	2- 5	85	61	0	79	0.0	6,715	85	6,715
BeB2	3s	beltsville	2- 6	68	49	0	1,028	0.4	69,904	68	69,904
Bt	3w	bladen sil	0- 2	65	46	0	193	0.1	12,545	65	12,545
CaC3	6e	caroline c	6-10	88	63	0	155	0.1	13,640	88	13,640
CaD3	6e	caroline c	10-15	80	57	0	182	0.1	14,560	80	14,560
CrD3	6e	craven cla	10-12	68	49	0	323	0.1	21,964	68	21,964
Ek	3w	elkton sil	0- 2	65	46	0	208	0.1	13,520	65	13,520
KeC3	4e	kempsville	6-10	106	76	0	149	0.1	15,794	106	15,794
LaB	3s	lakeland l	2- 6	65	46	0	786	0.3	51,090	65	51,090
Ot	3w	othello si	0- 2	65	46	0	9,634	4.0	626,210	65	626,210
SaC3	4e	sassafras	6-10	97	69	0	1,641	0.7	159,177	97	159,177
SaD3	6e	sassafras	10-15	88	63	0	354	0.1	31,152	88	31,152
				TOTAL			16,278	6.8	1,167,681		1,167,681

Weighted Average Yield = 71.73 Adjusted Weighted Average Yield = 71.73

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
Co	8e	coastal be	0- 1		0		927	0.4	0		0
Lo	2w	local allu	0- 2		0		304	0.1	0		0
Mx	5w	mixed allu	0- 2		0		8,951	3.7	0		0
SsD	4e	sloping sa	6-15		0		15,746	6.6	0		0
StE	6e	steep sand	15-45		0		42,810	17.8	0		0

Th	8w tidal mars	0- 1	0	215	0.1	0		0
To	8w tidal mars	0- 1	0	3,936	1.6	0		0
			TOTAL	72,889	30.3	0		0

Weighted Average Yield = 0.00 Adjusted Weighted Average Yield = 0.00

UNGROUPED Data
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map symbl	lc	soil name	slope	nir prd I yld ind F	acres number	pct	yield x adj acres	yld	adjust product
W	0	water	0- 0	0	21,760	9.1	0		0

Worksheet 2

Survey Area : northumberland and lancaster counties, virginia (VA133)

group	lcc	important farmland	potential or productivity	%	cum'ltv %	acres	cum'ltv acres	relative value
1	1-3w	prime	86-100	21.1	21.1	50,700	50,700	100
2	1-2e	prime	56- 79	25.0	46.1	60,006	110,706	85
3	2w-4e	state	46- 79	7.8	53.9	18,744	129,450	80
4	2w-6e	other	46- 76	6.8	60.6	16,278	145,728	56
5	2w-8w	other	-	30.3	90.9	72,889	218,617	0

FPPA acres: 129,450 (53.9% of county)
Farmable acres: 145,728 (60.6% of county)
Grouped acres: 218,617
Total acres: 240,377

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.