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 : Appomattox County, Virginia (VA011)
51 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	acres pct
1	1A	altavista loam	0- 2	2w	160	100	1	1,797	0.8
2	2B	appomattox-cullen complex	2- 7	2e	130	81	1	4,850	2.3
3	2C	appomattox-cullen complex	7-15	3e	130	81	S	930	0.4
4	3A	batteau loam	0- 2	3w	80	50	0	50	0.0
5	4B	beckham clay loam	2- 7	3e	75	47	1	349	0.2
6	4C	beckham clay loam	7-15	4e	50	31	0	247	0.1
7	4D	beckham clay loam	15-25	6e		0	0	229	0.1
8	5B	cecil sandy loam	2- 7	2e	95	59	1	18,558	8.6
9	6A	chewacla loam	0- 2	4w	140	88	0	8,746	4.1
10	7B	cullen clay loam	2- 7	3e	130	81	1	15,861	7.4
11	8B	iredell loam	2- 7	2e	65	41	S	9,047	4.2
12	8C	iredell loam	7-15	6e		0	S	2,303	1.1
13	9E	louisburg gravelly coarse san	25-50	7e		0	0	2,920	1.4
14	10E	manteo-rock outcrop complex	7-60	7s		0	0	386	0.2
15	11E	manteo very channery loam	25-60	7s		0	0	8,069	3.7
16	12B	mattaponi-cecil complex	2- 7	2e	108	68	1	4,713	2.2
17	12C	mattaponi-cecil complex	7-15	4e	101	63	S	911	0.4
18	13B	mayodan gravelly sandy loam	2- 7	2e	100	63	1	438	0.2
19	13C	mayodan gravelly sandy loam	7-15	4e	100	63	S	308	0.1
20	13D	mayodan gravelly sandy loam	15-25	6e	100	63	S	289	0.1
21	14B	mecklenburg loam	2- 7	2e	100	63	1	4,132	1.9
22	15B	mecklenburg-poindexter comple	2- 7	2e	82	52	1	653	0.3
23	15C	mecklenburg-poindexter comple	7-15	4e	78	49	S	18,521	8.6
24	15D	mecklenburg-poindexter comple	15-25	6e	56	35	S	7,132	3.3
25	16B	nason gravelly loam	2- 7	2e	100	63	1	373	0.2
26	17B	nason-manteo complex	2- 7	2e	56	35	S	385	0.2
27	17C	nason-manteo complex	7-15	3e	56	35	S	341	0.2
28	17D	nason-manteo complex	15-25	4e	56	35	S	242	0.1
29	18B	pacolet-louisburg complex	2- 7	2e	45	28	S	800	0.4
30	18C	pacolet-louisburg complex	7-15	4e	37	23	S	17,496	8.1
31	18D	pacolet-louisburg complex	15-25	6e		0	S	8,540	4.0
32	19E	poindexter gravelly silt loam	25-60	7e		0	0	3,476	1.6
33	20A	riverview loam	0- 2	2w	140	88	1	2,280	1.1
34	21A	state loam	0- 2	1	160	100	1	275	0.1
35	22B	tatum-manteo complex	2- 7	2e	54	34	S	1,256	0.6
36	22C	tatum-manteo complex	7-15	3e	51	32	S	21,375	9.9
37	22D	tatum-manteo complex	15-25	4e	39	24	S	15,230	7.1

line no.	**map symbl**	soil name	slope	lc	nirr yield	prd ind	i f	acres number	pct
38	23B	tatum silt loam	2- 7	2e	90	56	1	21,869	10.2
39	24B	turbeville loam	2- 7	2e	130	81	1	335	0.2
40	24C	turbeville loam	7-15	3e	130	81	S	291	0.1
41	25B	turbeville-tatum complex	2- 7	2e	114	71	1	517	0.2
42	25C	turbeville-tatum complex	7-15	3e	112	70	S	686	0.3
43	25D	turbeville-tatum complex	15-25	4e	100	62	S	551	0.3
44	26	udorthents-urban land complex	0-15	8s	0	0		317	0.1
45	27B	wedowee sandy loam	2- 7	2e	100	63	1	1,774	0.8
46	28C	wedowee-louisburg complex	7-15	4e	57	36	S	1,900	0.9
47	28D	wedowee-louisburg complex	15-25	6e	57	36	S	782	0.4
48	29A	wehadkee loam	0- 2	6w	65	41	0	2,520	1.2
49	30A	wingina loam	0- 2	1	130	81	1	50	0.0
50	31A	yogaville loam	0- 2	6w	50	31	0	50	0.0
51	W	water	0- 0	0	0	0	0	50	0.0
								215,200	

Sorted By Productivity Index (Prd Ind)

line no.	map symbl	soil name	slope	lc	nirr yield	**prd ind**	i f	acres number	pct
1	1A	altavista loam	0- 2	2w	160	100	1	1,797	0.8
2	21A	state loam	0- 2	1	160	100	1	275	0.1
3	6A	chewacla loam	0- 2	4w	140	88	0	8,746	4.1
4	20A	riverview loam	0- 2	2w	140	88	1	2,280	1.1
5	2B	appomattox-cullen complex	2- 7	2e	130	81	1	4,850	2.3
6	2C	appomattox-cullen complex	7-15	3e	130	81	S	930	0.4
7	7B	cullen clay loam	2- 7	3e	130	81	1	15,861	7.4
8	24B	turbeville loam	2- 7	2e	130	81	1	335	0.2
9	24C	turbeville loam	7-15	3e	130	81	S	291	0.1
10	30A	wingina loam	0- 2	1	130	81	1	50	0.0
11	25B	turbeville-tatum complex	2- 7	2e	114	71	1	517	0.2
12	25C	turbeville-tatum complex	7-15	3e	112	70	S	686	0.3
13	12B	mattaponi-cecil complex	2- 7	2e	108	68	1	4,713	2.2
14	12C	mattaponi-cecil complex	7-15	4e	101	63	S	911	0.4
15	13B	mayodan gravelly sandy loam	2- 7	2e	100	63	1	438	0.2
16	13C	mayodan gravelly sandy loam	7-15	4e	100	63	S	308	0.1
17	13D	mayodan gravelly sandy loam	15-25	6e	100	63	S	289	0.1
18	14B	mecklenburg loam	2- 7	2e	100	63	1	4,132	1.9
19	16B	nason gravelly loam	2- 7	2e	100	63	1	373	0.2
20	27B	wedowee sandy loam	2- 7	2e	100	63	1	1,774	0.8
21	25D	turbeville-tatum complex	15-25	4e	100	62	S	551	0.3
22	5B	cecil sandy loam	2- 7	2e	95	59	1	18,558	8.6
23	23B	tatum silt loam	2- 7	2e	90	56	1	21,869	10.2
24	15B	mecklenburg-poindexter comple	2- 7	2e	82	52	1	653	0.3
25	3A	batteau loam	0- 2	3w	80	50	0	50	0.0
26	15C	mecklenburg-poindexter comple	7-15	4e	78	49	S	18,521	8.6
27	4B	beckham clay loam	2- 7	3e	75	47	1	349	0.2
28	8B	iredell loam	2- 7	2e	65	41	S	9,047	4.2
29	29A	wehadkee loam	0- 2	6w	65	41	0	2,520	1.2
30	28C	wedowee-louisburg complex	7-15	4e	57	36	S	1,900	0.9
31	28D	wedowee-louisburg complex	15-25	6e	57	36	S	782	0.4
32	15D	mecklenburg-poindexter comple	15-25	6e	56	35	S	7,132	3.3
33	17B	nason-manteo complex	2- 7	2e	56	35	S	385	0.2
34	17C	nason-manteo complex	7-15	3e	56	35	S	341	0.2
35	17D	nason-manteo complex	15-25	4e	56	35	S	242	0.1

line no.	map symbl	soil name	slope	lc	nirr yield	**prd ind**	i f	acres number	pct
36	22B	tatum-manteo complex	2- 7	2e	54	34	S	1,256	0.6
37	22C	tatum-manteo complex	7-15	3e	51	32	S	21,375	9.9
38	4C	beckham clay loam	7-15	4e	50	31	0	247	0.1
39	31A	yogaville loam	0- 2	6w	50	31	0	50	0.0
40	18B	pacolet-louisburg complex	2- 7	2e	45	28	S	800	0.4
41	22D	tatum-manteo complex	15-25	4e	39	24	S	15,230	7.1
42	18C	pacolet-louisburg complex	7-15	4e	37	23	S	17,496	8.1
43	4D	beckham clay loam	15-25	6e		0	0	229	0.1
44	8C	iredell loam	7-15	6e		0	S	2,303	1.1
45	9E	louisburg gravelly coarse san	25-50	7e		0	0	2,920	1.4
46	10E	manteo-rock outcrop complex	7-60	7s		0	0	386	0.2
47	11E	manteo very channery loam	25-60	7s		0	0	8,069	3.7
48	18D	pacolet-louisburg complex	15-25	6e		0	S	8,540	4.0
49	19E	poindexter gravelly silt loam	25-60	7e		0	0	3,476	1.6
50	26	udorthents-urban land complex	0-15	8s		0	0	317	0.1
51	W	water	0- 0	0		0	0	50	0.0
								215,200	

Code	**Important Farmland (if)**
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
21A	1	state loam	0- 2	160	100	1	275	0.1	44,000	160	44,000
30A	1	wingina lo	0- 2	130	81	1	50	0.0	6,500	130	6,500
1A	2w	altavista	0- 2	160	100	1	1,797	0.8	287,520	160	287,520
20A	2w	riverview	0- 2	140	88	1	2,280	1.1	319,200	140	319,200
						TOTAL	4,402	2.0	657,220		657,220

Weighted Average Yield = 149.30 Adjusted Weighted Average Yield = 149.30

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
2B	2e	appomattox	2- 7	130	81	1	4,850	2.3	630,500	130	630,500
5B	2e	cecil sand	2- 7	95	59	1	18,558	8.6	1,763,010	95	1,763,010
12B	2e	mattaponi-	2- 7	108	68	1	4,713	2.2	510,575	108	510,575
13B	2e	mayodan gr	2- 7	100	63	1	438	0.2	43,800	100	43,800
14B	2e	mecklenbur	2- 7	100	63	1	4,132	1.9	413,200	100	413,200
15B	2e	mecklenbur	2- 7	83	52	1	653	0.3	53,872	82	53,872
16B	2e	nason grav	2- 7	100	63	1	373	0.2	37,300	100	37,300
23B	2e	tatum silt	2- 7	90	56	1	21,869	10.2	1,968,210	90	1,968,210
24B	2e	turbeville	2- 7	130	81	1	335	0.2	43,550	130	43,550
25B	2e	turbeville	2- 7	114	71	1	517	0.2	58,938	114	58,938
27B	2e	wedowee sa	2- 7	100	63	1	1,774	0.8	177,400	100	177,400
4B	3e	beckham cl	2- 7	75	47	1	349	0.2	26,175	75	26,175
7B	3e	cullen cla	2- 7	130	81	1	15,861	7.4	2,061,930	130	2,061,930
						TOTAL	74,422	34.6	7,788,460		7,788,460

Weighted Average Yield = 104.65 Adjusted Weighted Average Yield = 104.65

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
8B	2e	iredell lo	2- 7	65	41	S	9,047	4.2	588,055	65	588,055
17B	2e	nason-mant	2- 7	56	35	S	385	0.2	21,656	56	21,656
18B	2e	pacolet-lo	2- 7	45	28	S	800	0.4	36,000	45	36,000
22B	2e	tatum-mant	2- 7	54	34	S	1,256	0.6	67,824	54	67,824
17C	3e	nason-mant	7-15	56	35	S	341	0.2	19,181	56	19,181
22C	3e	tatum-mant	7-15	51	32	S	21,375	9.9	1,090,125	51	1,090,125
2C	3e	appomattox	7-15	130	81	S	930	0.4	120,900	130	120,900
24C	3e	turbeville	7-15	130	81	S	291	0.1	37,830	130	37,830
25C	3e	turbeville	7-15	112	70	S	686	0.3	76,832	112	76,832
						TOTAL	35,111	16.3	2,058,404		2,058,404

Weighted Average Yield = 58.63 Adjusted Weighted Average Yield = 58.63

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	3w	batteau lo	0- 2	80	50	0	50	0.0	4,000	80	4,000
12C	4e	mattaponi-	7-15	101	63	S	911	0.4	92,315	101	92,315
13C	4e	mayodan gr	7-15	100	63	S	308	0.1	30,800	100	30,800
13D	6e	mayodan gr	15-25	100	63	S	289	0.1	28,900	100	28,900
15C	4e	mecklenbur	7-15	78	49	S	18,521	8.6	1,446,953	78	1,446,953
15D	6e	mecklenbur	15-25	56	35	S	7,132	3.3	401,175	56	401,175
17D	4e	nason-mant	15-25	56	35	S	242	0.1	13,612	56	13,612
18C	4e	pacolet-lo	7-15	37	23	S	17,496	8.1	639,698	37	639,698
22D	4e	tatum-mant	15-25	39	24	S	15,230	7.1	593,970	39	593,970
25D	4e	turbeville	15-25	100	62	S	551	0.3	54,916	100	54,916
28C	4e	wedowee-lo	7-15	57	36	S	1,900	0.9	108,571	57	108,571
28D	6e	wedowee-lo	15-25	57	36	S	782	0.4	44,686	57	44,686
4C	4e	beckham cl	7-15	50	31	0	247	0.1	12,350	50	12,350
6A	4w	chewacla l	0- 2	140	88	0	8,746	4.1	1,224,440	140	1,224,440
29A	6w	wehadkee l	0- 2	65	41	0	2,520	1.2	163,800	65	163,800
31A	6w	yogaville	0- 2	50	31	0	50	0.0	2,500	50	2,500
						TOTAL	74,975	34.8	4,862,686		4,862,686

Weighted Average Yield = 64.86 Adjusted Weighted Average Yield = 64.86

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
8C	6e	iredell lo	7-15			S	2,303	1.1	0		0
18D	6e	pacolet-lo	15-25			S	8,540	4.0	0		0
4D	6e	beckham cl	15-25			0	229	0.1	0		0
						TOTAL	11,072	5.1	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	acres pct	yield x acres	adj yld	adjust product
9E	7e	louisburg	25-50			0	2,920	1.4	0		0
10E	7s	manteo-roc	7-60			0	386	0.2	0		0
11E	7s	manteo ver	25-60			0	8,069	3.7	0		0
19E	7e	poindexter	25-60			0	3,476	1.6	0		0
						TOTAL	14,851	6.9	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
26	8s	udorthents	0-15		0		317	0.1	0		0
W	0	water	0- 0		0		50	0.0	0		0

Summary Grouping

group	lcc	important farmland	potential or productivity	%	cum'ltv %	acres	cum'ltv acres	relative value
1	1	prime	81-100	0.2				100
	2w	prime	88-100	1.9	2.0	4,402	4,402	100
2	2e	prime	52- 81	27.1				70
	3e	prime	47- 81	7.5	36.6	74,422	78,824	70
3	2e	state	28- 41	5.3				39
	3e	state	32- 35	10.1				39
	3e	state	70- 81	0.9	52.9	35,111	113,935	39
4	3w	other	50- 50	0.0				43
	4e-6e	state	23- 63	29.4				43
	4e-6w	other	31- 88	5.4	87.8	74,975	188,910	43
5	4e-6e	state	-	5.0				0
	4e-6e	other	-	0.1	92.9	11,072	199,982	0
6	7e-7s	other	-	6.9	99.8	14,851	214,833	0

FPPA acres: 113,935 (87.4% of county)
Farmable acres: 188,910 (87.8% of county)
Grouped acres: 214,833
Total acres: 215,200

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/ .