

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.

Survey Area : chesapeake city, virginia (VA550)
55 mapunits

Indicator crop : corn
Temperature Regime : thermic
C factor : 0.00
System irrigated? : no
Minimum Component : 15%

line	map	soil name	slope	lc	nirr prd i			acres	
no.	sybl				yield	ind	f	number	pct
1	1	acredale silt loam	0-	1	4w	150	100	2	26,268 11.4
2	2	acredale-chapanoke complex	0-	1	4w	150	100	2	2,059 0.9
3	3	acredale-urban land complex	0-	1	4w	100	67	0	773 0.3
4	4	acredale-urban land-chapanoke	0-	1	4w	97	65	0	26 0.0
5	5	aquents	0-	2	8w		0	0	269 0.1
6	6	arapahoe mucky fine sandy loa	0-	1	3w	140	93	2	3,007 1.3
7	7	arapahoe-urban land complex	0-	1	3w	93	62	0	34 0.0
8	8	bojac loamy fine sand	0-	2	2s	110	73	1	958 0.4
9	9	bojac-urban land complex	0-	2	2s	73	49	0	712 0.3
10	10	bojac-urban land-wando comple	0-	3	2s	58	39	0	456 0.2
11	11	chapanoke-yeopim complex	0-	3	2w	142	95	2	634 0.3
12	12	chesapeake sandy loam	0-	2	1	130	87	1	1,487 0.6
13	13	chesapeake-urban land complex	0-	2	1	89	59	0	654 0.3
14	14E	conetoe-chesapeake-tetotum co	2-40	6e		79	53	0	509 0.2
15	15	deloss mucky fine sandy loam	0-	1	4w	150	100	2	8,635 3.7
16	16	deloss-tomotley-nimmo complex	0-	1	4w	147	98	2	5,586 2.4
17	17	deloss-urban land complex	0-	1	4w	100	67	0	160 0.1
18	18	dorovan-belhaven complex	0-	1	7w		0	0	14,643 6.3
19	19	dragston fine sandy loam	0-	2	4w	140	93	2	1,178 0.5
20	20	dragston-tomotley complex	0-	2	4w	143	95	2	5,480 2.4
21	21	dragston-urban land complex	0-	2	4w	96	64	0	782 0.3
22	22	dragston-urban land-tomotley	0-	2	4w	98	65	0	2,193 1.0
23	23	gertie silt loam	0-	1	4w	140	93	S	2,261 1.0
24	24	hyde mucky silt loam	0-	1	3w	150	100	2	3,171 1.4
25	25	munden fine sandy loam	0-	2	2w	140	93	1	3,759 1.6
26	26C	munden loamy fine sand	2-	8	2e	140	93	1	570 0.2
27	27	munden-urban land complex	0-	2	2w	96	64	0	2,020 0.9
28	28C	munden-urban land complex	2-	8	2e	88	58	0	57 0.0
29	29	munden-urban land-pactolus co	0-	3	2w	81	54	0	344 0.1
30	30	nawney silt loam	0-	1	7w		0	0	2,512 1.1
31	31	pactolus loamy fine sand	0-	3	3s	85	57	0	552 0.2

32	32	pasquotank silt loam	0- 1 4w	150	100	2	727	0.3
33	33	pocaty mucky peat	0- 1 8w		0	0	832	0.4
34	34	portsmouth mucky fine sandy l	0- 1 3w	150	100	2	6,762	2.9
35	35C	psamments	0-10 4s		0	0	1,325	0.6
36	36	pungo-belhaven soils	0- 1 7w		0	0	43,589	18.9
37	37	rappahannock muck	0- 1 8w		0	0	1,131	0.5
38	38	tetotum fine sandy loam	0- 2 2w	130	87	1	2,303	1.0
39	39	tetotum-urban land complex	0- 2 2w	89	59	0	349	0.2
40	40	tetotum-urban land-chesapeake	0- 2 2w	89	59	0	119	0.1
41	41	tomotley fine sandy loam	0- 1 4w	150	100	2	8,462	3.7
42	42	tomotley-bertie complex	0- 2 4w	143	95	2	5,004	2.2
43	43	tomotley-deloss complex	0- 1 4w	150	100	2	19,987	8.7
44	44	tomotley-deloss-urban land co	0- 1 4w	115	77	0	3,034	1.3
45	45	tomotley-nimmo complex	0- 1 4w	148	99	2	16,010	6.9
46	46	tomotley-urban land complex	0- 1 4w	103	68	0	1,921	0.8
47	47	tomotley-urban land-bertie co	0- 2 4w	97	65	0	1,337	0.6
48	48	tomotley-urban land-nimmo com	0- 1 4w	97	65	0	4,149	1.8
49	49	udorthents-urban land complex	0-45 8s		0	0	6,566	2.8
50	50	urban land	0- 5 8s		0	0	3,878	1.7
51	51E	urban land-conetoe-chesapeake	2-40 8s	48	32	0	364	0.2
52	52	urban land-deloss-tomotley-ni	0- 1 4w	99	66	0	1,543	0.7
53	53	wando loamy fine sand	0- 3 3s	55	37	0	412	0.2
54	54	weeksville mucky silt loam	0- 1 4w	150	100	2	1,165	0.5
55	W	water	0- 0 8w		0	0	7,882	3.4

230,600

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 : chesapeake city, virginia (VA550)

Group Number 1

map sybl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product	
12	1	chesapeake	0-	2	130	87	1	1,487	0.6	193,310	130	193,310
26C	2e	munden loa	2-	8	140	93	1	570	0.2	79,800	140	79,800
25	2w	munden fin	0-	2	140	93	1	3,759	1.6	526,260	140	526,260
38	2w	tetotum fi	0-	2	130	87	1	2,303	1.0	299,390	130	299,390
11	2w	chapanoke-	0-	3	142	95	2	634	0.3	89,879	142	89,879
34	3w	portsmouth	0-	1	150	100	2	6,762	2.9	1,014,300	150	1,014,300
24	3w	hyde mucky	0-	1	150	100	2	3,171	1.4	475,650	150	475,650
6	3w	arapahoe m	0-	1	140	93	2	3,007	1.3	420,980	140	420,980
1	4w	acredale s	0-	1	150	100	2	26,268	11.4	3,940,200	150	3,940,200
43	4w	tomotley-d	0-	1	150	100	2	19,987	8.7	2,998,050	150	2,998,050
45	4w	tomotley-n	0-	1	148	99	2	16,010	6.9	2,368,827	148	2,368,827
15	4w	deloss muc	0-	1	150	100	2	8,635	3.7	1,295,250	150	1,295,250
41	4w	tomotley f	0-	1	150	100	2	8,462	3.7	1,269,300	150	1,269,300
16	4w	deloss-tom	0-	1	147	98	2	5,586	2.4	822,383	147	822,383
20	4w	dragston-t	0-	2	143	95	2	5,480	2.4	781,621	143	781,621
42	4w	tomotley-b	0-	2	143	95	2	5,004	2.2	713,728	143	713,728
2	4w	acredale-c	0-	1	150	100	2	2,059	0.9	308,850	150	308,850
19	4w	dragston f	0-	2	140	93	2	1,178	0.5	164,920	140	164,920
54	4w	weeksville	0-	1	150	100	2	1,165	0.5	174,750	150	174,750
32	4w	pasquotank	0-	1	150	100	2	727	0.3	109,050	150	109,050
TOTAL							122,254	53.0	18,046,498	18,046,498		

Weighted Average Yield = 147.61

Adjusted Weighted Average Yield = 147.61

Group Number 2

map sybl	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
23	4w	gertie sil	0-	1	140	93 S	2,261	1.0	316,540	140	316,540
TOTAL							2,261	1.0	316,540		316,540

Weighted Average Yield = 140.00

Adjusted Weighted Average Yield = 140.00

Group Number 3

map sybl	lc	soil	name	slope	yld	ind	I F	acres number	pct	yield acres	x adj yld	adjust product	
8	2s	bojac	loam	0-	2	110	73	1	958	0.4	105,380	110	105,380
TOTAL								958	0.4	105,380		105,380	

Weighted Average Yield = 110.00

Adjusted Weighted Average Yield = 110.00

Group Number 4

map sybl	lc	soil name	slope	yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
27	2w	munden-urb	0-	2	96	64 0	2,020	0.9	193,495	96	193,495
7	3w	arapahoe-u	0-	1	93	62 0	34	0.0	3,173	93	3,173
48	4w	tomotley-u	0-	1	97	65 0	4,149	1.8	402,697	97	402,697
44	4w	tomotley-d	0-	1	115	77 0	3,034	1.3	348,291	115	348,291
22	4w	dragston-u	0-	2	98	65 0	2,193	1.0	214,683	98	214,683
46	4w	tomotley-u	0-	1	103	68 0	1,921	0.8	197,155	103	197,155
52	4w	urban land	0-	1	99	66 0	1,543	0.7	153,488	99	153,488
47	4w	tomotley-u	0-	2	97	65 0	1,337	0.6	130,182	97	130,182
21	4w	dragston-u	0-	2	96	64 0	782	0.3	74,907	96	74,907
3	4w	acredale-u	0-	1	100	67 0	773	0.3	77,300	100	77,300
17	4w	deloss-urb	0-	1	100	67 0	160	0.1	16,000	100	16,000
4	4w	acredale-u	0-	1	97	65 0	26	0.0	2,524	97	2,524
TOTAL							17,972	7.8	1,813,895		1,813,895

Weighted Average Yield = 100.93

Adjusted Weighted Average Yield = 100.93

Group Number 5

map sybl	lc	soil name	slope	yld	ind	nir prd I F	acres number pct		yield x acres yld	adj product	
13	1	chesapeake	0- 2	89	59	0	654	0.3	58,172	89	58,172
28C	2e	munden-urb	2- 8	88	58	0	57	0.0	4,988	88	4,988
9	2s	bojac-urba	0- 2	73	49	0	712	0.3	52,213	73	52,213
10	2s	bojac-urba	0- 3	58	39	0	456	0.2	26,473	58	26,473
39	2w	tetotum-ur	0- 2	89	59	0	349	0.2	31,043	89	31,043
29	2w	munden-urb	0- 3	81	54	0	344	0.1	27,902	81	27,902
40	2w	tetotum-ur	0- 2	89	59	0	119	0.1	10,585	89	10,585
31	3s	pactolus l	0- 3	85	57	0	552	0.2	46,920	85	46,920
53	3s	wando loam	0- 3	55	37	0	412	0.2	22,660	55	22,660
14E	6e	conetoe-ch	2-40	79	53	0	509	0.2	40,437	79	40,437

TOTAL 4,164 1.8 321,393 321,393

Weighted Average Yield = 77.18 Adjusted Weighted Average Yield = 77.18

Group Number 6

map sybl	lc soil name	slope	nir prd I yld ind F	acres number pct	yield x adj acres yld	adjust product
35C	4s psamments	0-10	0	1,325 0.6	0	0
36	7w pungo-belh	0- 1	0	43,589 18.9	0	0
18	7w dorovan-be	0- 1	0	14,643 6.3	0	0
30	7w nawney sil	0- 1	0	2,512 1.1	0	0
W	8w water	0- 0	0	7,882 3.4	0	0
37	8w rappahanno	0- 1	0	1,131 0.5	0	0
33	8w pocaty muc	0- 1	0	832 0.4	0	0
5	8w aquents	0- 2	0	269 0.1	0	0
TOTAL				72,183 31.3	0	0

Weighted Average Yield = 0.00 Adjusted Weighted Average Yield = 0.00

UNGROUPED Data

map sybl	lc soil name	slope	nir prd I yld ind F	acres number pct	yield x adj acres yld	adjust product
49	8s udorthents	0-45	0	6,566 2.8	0	0
50	8s urban land	0- 5	0	3,878 1.7	0	0
51E	8s urban land	2-40	48 32 0	364 0.2	17,434 48	17,434

Worksheet 2

Survey Area : chesapeake city, virginia (VA550)

group	lcc	important farmland	potential or productivity	%	cum'ltv %	acres	cum'ltv acres	relative value
1	1-4w	prime	87-100	53.0	53.0	122,254	122,254	100
2	4w	state	93- 93	1.0	54.0	2,261	124,515	95
3	2w-4w	prime	73- 73	0.4	54.4	958	125,473	75
4	2w-4w	other	62- 77	7.8	62.2	17,972	143,445	68
5	1-6e	other	37- 59	1.8	64.0	4,164	147,609	52
6	4s-8w	other	-	31.3	95.3	72,183	219,792	0

FPPA acres: 125,473 (54.4% of county)
Farmable acres: 147,609 (64.0% of county)
Grouped acres: 219,792
Total acres: 230,600

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.