

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: Greene County, Virginia (VA079) 50 Mapunits

Indicator Crop: Corn
Temperature Regime: Mesic
C Factor: 0.05
System Irrigated? : No
Minimum Component: 15%

Sorted by Map Symbol (map symb1)

line no.	map symb1	soil name	slope	lc	nirr yield	prd ind	i f	acres number	pct
1	AsC	ashe sandy loam	7-15	4e	57	36	S	1,070	1.1
2	AsD	ashe sandy loam	15-25	6e	52	33	S	4,700	4.8
3	AsE	ashe sandy loam	25-75	7e		0	0	840	0.9
4	AvD	ashe very stony sandy loam	15-25	6s		0	0	805	0.8
5	AvE	ashe very stony sandy loam	25-75	7s		0	0	1,180	1.2
6	BaB	belvoir sandy loam	2- 7	3w	85	53	0	520	0.5
7	BcB	braddock loam	2- 7	2e	130	81	1	955	1.0
8	BcC	braddock loam	7-15	3e	114	71	S	1,065	1.1
9	BdD3	braddock clay loam	15-25	6e	73	46	0	445	0.5
10	BuC	buckhall loam	7-15	3e	88	55	S	1,550	1.6
11	BuD	buckhall loam	15-25	4e	80	50	S	1,210	1.2
12	CaE	cataska very stony silt loam	25-75	7s		0	0	315	0.3
13	CcE	catoctin-rock outcrop complex	25-80	7s		0	0	1,675	1.7
14	CgB	chatuge sandy loam	1- 4	4w	65	41	0	1,210	1.2
15	ChC	chester loam	7-15	3e	132	83	S	550	0.6
16	ChD	chester loam	15-25	4e	130	81	S	670	0.7
17	CmC	chester and parker soils	7-15	6s		0	0	640	0.7
18	CmD	chester and parker soils	15-25	6s		0	0	2,765	2.8
19	Cn	codorus silt loam	0- 4	2w	160	100	S	625	0.6
20	Cs	comus fine sandy loam	0- 2	2w	160	100	0	845	0.9
21	Cv	craigsville cobbly sandy loam	0- 2	3s	72	45	0	1,865	1.9
22	DkB3	dyke clay loam	2- 7	3e	91	57	0	240	0.2
23	DkC3	dyke clay loam	7-15	4e	80	50	0	365	0.4
24	ElB	elioak loam	2- 7	2e	100	63	1	4,415	4.5
25	ElC	elioak loam	7-15	3e	88	55	S	6,210	6.3
26	EnC3	elioak clay loam	7-15	4e	62	39	0	10,455	10.7
27	EnD3	elioak clay loam	15-25	6e	56	35	0	3,800	3.9
28	GlC	glenelg loam	7-15	3e	114	71	S	620	0.6
29	GlD	glenelg loam	15-25	4e	104	65	S	755	0.8
30	Hb	hatboro loam	0- 2	3w	85	53	0	1,660	1.7
31	HxD	hazel loam	15-25	6e	52	33	S	1,120	1.1
32	HxE	hazel loam	25-45	7e		0	0	340	0.3
33	Kn	kinkora silt loam	0- 2	3w	65	41	0	990	1.0
34	LeC	lew extremely stony loam	7-15	7s		0	0	1,180	1.2

line no.	map symb1	soil name	slope	lc	nirr yield	prd ind	i f	acres number	pct
35	LeD	lew extremely stony loam	15-25	7s		0	0	2,155	2.2
36	LeE	lew extremely stony loam	25-75	7s		0	0	3,825	3.9
37	MvB	meadowville fine sandy loam	2- 7	2e	140	88	1	3,960	4.0
38	MxC	myersville and catoctin very	7-15	6s		0	0	1,120	1.1
39	MyD	myersville and catoctin extre	15-25	7s		0	0	3,205	3.3
40	MyE	myersville and catoctin extre	25-80	7s		0	0	6,550	6.7
41	PrE	parker extremely stony loam	25-70	7s		0	0	14,225	14.5
42	Sc	suches-codorus complex	0- 2	2w	160	100	0	1,880	1.9
43	ThC	thurmont loam	7-15	3e	114	71	S	665	0.7
44	ThD	thurmont loam	15-25	4e	104	65	S	230	0.2
45	TvD	thurmont very stony loam	15-25	7s		0	0	1,215	1.2
46	Ud	udorthents	0- 0	0		0	0	145	0.1
47	UnA	unison loam	0- 2	1	130	81	1	190	0.2
48	UnB	unison loam	2- 7	2e	130	81	1	470	0.5
49	UnC	unison loam	7-15	3e	114	71	S	415	0.4
								97,900	

Sorted by Productivity Index (prd ind)

line no.	map symb1	soil name	slope	lc	nirr yield	prd ind	i f	acres number	pct
1	Sc	suches-codorus complex	0- 2	2w	160	100	0	1,880	1.9
2	Cs	comus fine sandy loam	0- 2	2w	160	100	0	845	0.8
3	Cn	codorus silt loam	0- 4	2w	160	100	S	625	0.6
4	MvB	meadowville fine sandy loam	2- 7	2e	140	88	1	3,960	4.0
5	ChC	chester loam	7-15	3e	132	83	S	550	0.6
6	UnA	unison loam	0- 2	1	130	81	1	190	0.2
7	BcB	braddock loam	2- 7	2e	130	81	1	955	1.0
8	UnB	unison loam	2- 7	2e	130	81	1	470	0.5
9	ChD	chester loam	15-25	4e	130	81	S	670	0.7
10	BcC	braddock loam	7-15	3e	114	71	S	1,065	1.1
11	ThC	thurmont loam	7-15	3e	114	71	S	665	0.7
12	GlC	glenelg loam	7-15	3e	114	71	S	620	0.6
13	UnC	unison loam	7-15	3e	114	71	S	415	0.4
14	GlD	glenelg loam	15-25	4e	104	65	S	755	0.8
15	ThD	thurmont loam	15-25	4e	104	65	S	230	0.2
16	ElB	elioak loam	2- 7	2e	100	63	1	4,415	4.4
17	DkB3	dyke clay loam	2- 7	3e	91	57	0	240	0.2
18	ElC	elioak loam	7-15	3e	88	55	S	6,210	6.2
19	BuC	buckhall loam	7-15	3e	88	55	S	1,550	1.6
20	Hb	hatboro loam	0- 2	3w	85	53	0	1,660	1.7
21	BaB	belvoir sandy loam	2- 7	3w	85	53	0	520	0.5
22	BuD	buckhall loam	15-25	4e	80	50	S	1,210	1.2
23	DkC3	dyke clay loam	7-15	4e	80	50	0	365	0.4
24	BdD3	braddock clay loam	15-25	6e	73	46	0	445	0.4
25	Cv	craigsville cobbly sandy loam	0- 2	3s	72	45	0	1,865	1.9
26	Kn	kinkora silt loam	0- 2	3w	65	41	0	990	1.0
27	CgB	chatuge sandy loam	1- 4	4w	65	41	0	1,210	1.2
28	EnC3	elioak clay loam	7-15	4e	62	39	0	10,455	10.5
29	AsC	ashe sandy loam	7-15	4e	57	36	S	1,070	1.1
30	EnD3	elioak clay loam	15-25	6e	56	35	0	3,800	3.8
31	AsD	ashe sandy loam	15-25	6e	52	33	S	4,700	4.7
32	HxD	hazel loam	15-25	6e	52	33	S	1,120	1.1

line no.	map syml	soil name	slope	lc	nirr yield	prd ind	i f	acres number	pct
33	CmD	chester and parker soils	15-25	6s		0	0	2,765	2.8
34	MxC	myersville and catoctin very	7-15	6s		0	0	1,120	1.1
35	AvD	ashe very stony sandy loam	15-25	6s		0	0	805	0.8
36	CmC	chester and parker soils	7-15	6s		0	0	640	0.6
37	AsE	ashe sandy loam	25-75	7e		0	0	840	0.8
38	HzE	hazel loam	25-45	7e		0	0	340	0.3
39	PrE	parker extremely stony loam	25-70	7s		0	0	14,225	14.2
40	MyE	myersville and catoctin extre	25-80	7s		0	0	6,550	6.6
41	LeE	lew extremely stony loam	25-75	7s		0	0	3,825	3.8
42	MyD	myersville and catoctin extre	15-25	7s		0	0	3,205	3.2
43	LeD	lew extremely stony loam	15-25	7s		0	0	2,155	2.2
44	CcE	catoctin-rock outcrop complex	25-80	7s		0	0	1,675	1.7
45	TvD	thurmont very stony loam	15-25	7s		0	0	1,215	1.2
46	AvE	ashe very stony sandy loam	25-75	7s		0	0	1,180	1.2
47	LeC	lew extremely stony loam	7-15	7s		0	0	1,180	1.2
48	CaE	cataska very stony silt loam	25-75	7s		0	0	315	0.3
49	W	water	0-	0 0		0	0	1,961	2.0
50	Ud	udorthents	0-	0 0		0	0	145	0.1
								99,861	

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: Greene County, Virginia (VA079)****Group Number 1**

map				nir prd I			acres		yield x adj		adjust		
syml	lc	soil	name	slope	yld	ind	F	number	pct	acres	yld	product	
BcB	2e	braddock	l	2-	7	130	81	1	955	1.0	124,150	130	124,150
ElB	2e	elioak	loa	2-	7	100	63	1	4,415	4.5	441,500	100	441,500
MvB	2e	meadowvill		2-	7	140	88	1	3,960	4.0	554,400	140	554,400
UnA	1	unison	loa	0-	2	130	81	1	190	0.2	24,700	130	24,700
UnB	2e	unison	loa	2-	7	130	81	1	470	0.5	61,100	130	61,100
TOTAL								9,990	10.2	1,205,850			1,205,850

Weighted Average Yield = 120.71

Adjusted Weighted Average Yield = 120.71

Group Number 2

map syml	lc	soil	name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
ChC	3e	chester	lo	7-15	132	83	S	550	0.6	72,600	132	72,600
ChD	4e	chester	lo	15-25	130	81	S	670	0.7	87,100	130	87,100
Cn	2w	codorus	si	0- 4	160	100	S	625	0.6	100,000	160	100,000
TOTAL								1,845	1.9	259,700		259,700

Weighted Average Yield = 140.76

Adjusted Weighted Average Yield = 140.76

Group Number 3

map sybl	lc	soil	name	slope	yld	prd	I	acres		yield	x adj	adjust
						ind	F	number	pct	acres	yld	product
BcC	3e	braddock	l	7-15	114	71	S	1,065	1.1	121,410	114	121,410
BuC	3e	buckhall	l	7-15	88	55	S	1,550	1.6	136,400	88	136,400
BuD	4e	buckhall	l	15-25	80	50	S	1,210	1.2	96,800	80	96,800
ElC	3e	elioak	loa	7-15	88	55	S	6,210	6.3	546,480	88	546,480
GlC	3e	glenelg	lo	7-15	114	71	S	620	0.6	70,680	114	70,680
GlD	4e	glenelg	lo	15-25	104	65	S	755	0.8	78,520	104	78,520
ThC	3e	thurmont	l	7-15	114	71	S	665	0.7	75,810	114	75,810
ThD	4e	thurmont	l	15-25	104	65	S	230	0.2	23,920	104	23,920
UnC	3e	unison	loa	7-15	114	71	S	415	0.4	47,310	114	47,310
TOTAL								12,720	13.0	1,197,330		1,197,330

Weighted Average Yield = 94.13

Adjusted Weighted Average Yield = 94.13

Group Number 4

map syml	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
AsC	4e	ashe sandy	7-15	57	36	S	1,070	1.1	60,990	57	60,990
AsD	6e	ashe sandy	15-25	52	33	S	4,700	4.8	244,400	52	244,400
HxD	6e	hazel loam	15-25	52	33	S	1,120	1.1	58,240	52	58,240
TOTAL							6,890	7.0	363,630		363,630

Weighted Average Yield = 52.78

Adjusted Weighted Average Yield = 52.78

Group Number 5

map syml	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
BaB	3w	belvoir sa	2- 7	85	53	0	520	0.5	44,200	85	44,200
BdD3	6e	braddock c	15-25	73	46	0	445	0.5	32,485	73	32,485
CgB	4w	chatuge sa	1- 4	65	41	0	1,210	1.2	78,650	65	78,650
Cs	2w	comus fine	0- 2	160	100	0	845	0.9	135,200	160	135,200
Cv	3s	craigsvill	0- 2	72	45	0	1,865	1.9	134,280	72	134,280
DkB3	3e	dyke clay	2- 7	91	57	0	240	0.2	21,840	91	21,840
DkC3	4e	dyke clay	7-15	80	50	0	365	0.4	29,200	80	29,200
EnC3	4e	elioak cla	7-15	62	39	0	10,455	10.7	648,210	62	648,210
EnD3	6e	elioak cla	15-25	56	35	0	3,800	3.9	212,800	56	212,800
Hb	3w	hatboro lo	0- 2	85	53	0	1,660	1.7	141,100	85	141,100
Kn	3w	kinkora si	0- 2	65	41	0	990	1.0	64,350	65	64,350
Sc	2w	suches-cod	0- 2	160	100	0	1,880	1.9	300,800	160	300,800
TOTAL							24,275	24.8	1,843,115		1,843,115

Weighted Average Yield = 75.93

Adjusted Weighted Average Yield = 75.93

Group Number 6

map syml	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
AsE	7e	ashe sandy	25-75			0	840	0.9	0		0
AvD	6s	ashe very	15-25			0	805	0.8	0		0
AvE	7s	ashe very	25-75			0	1,180	1.2	0		0
CaE	7s	cataska ve	25-75			0	315	0.3	0		0
CcE	7s	catoctin-r	25-80			0	1,675	1.7	0		0
CmC	6s	chester an	7-15			0	640	0.7	0		0
CmD	6s	chester an	15-25			0	2,765	2.8	0		0
HxE	7e	hazel loam	25-45			0	340	0.3	0		0
LeC	7s	lew extrem	7-15			0	1,180	1.2	0		0
LeD	7s	lew extrem	15-25			0	2,155	2.2	0		0
LeE	7s	lew extrem	25-75			0	3,825	3.9	0		0
MxC	6s	myersville	7-15			0	1,120	1.1	0		0

map syml	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
MyD	7s	myersville	15-25			0	3,205	3.3	0		0
MyE	7s	myersville	25-80			0	6,550	6.7	0		0
PrE	7s	parker ext	25-70			0	14,225	14.5	0		0
TvD	7s	thurmont v	15-25			0	1,215	1.2	0		0
TOTAL							42,035	42.9	0		0

Weighted Average Yield = 0.00 Adjusted Weighted Average Yield = 0.00

UNGROUPEd Data

map syml	lc	soil name	slope	nir yld	prd ind	I F	acres number	pct	yield acres	x adj yld	adjust product
Ud	0	udorthents	0- 0			0	145	0.1	0		0

Summary Grouping

group	lcc	important farmland	potential or productivity	%	cum'ltv %	acres	cum'ltv acres	relative value
1	1-2e	prime	63- 88	10.2	10.2	9,990	9,990	86
2	2w-4e	state	81-100	1.9	12.1	1,845	11,835	100
3	3e-4e	state	50- 71	13.0	25.1	12,720	24,555	67
4	4e-6e	state	33- 36	7.0	32.1	6,890	31,445	37
5	2w-6e	other	35-100	24.8	56.9	24,275	55,720	54
6	6s-7s	other	-	42.9	99.9	42,035	97,755	0

FPPA acres: 31,445 (32.1% of county)

Farmable acres: 55,720 (56.9% of county)

Grouped acres: 97,755

Total acres: 97,900

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/>.