

Phase 6 Draft Final

Phase 6 Land Use	State	2013 SpaceConstrained	1985-2012 SpaceConstrained	2013 Unconstrained	1985-2012 Unconstrained
Cropland	VA	Census	Census	Census	Census
Forest	VA	0.98	0.85	0.98	0.98
Impervious Non-Roads	VA	0.94	0.85	0.95	0.95
Impervious Roads	VA	0.94	0.85	0.95	0.95
Mixed Open	VA	0.87	0.85	0.95	Census
Pasture	VA	Census	Census	Census	Census
Tree Canopy over Impervious	VA	0.75	0.75	0.95	0.95
Tree Canopy over Turf	VA	0.83	0.83	0.95	0.95
Turf Grass	VA	0.72	0.72	0.95	0.95
Water	VA	1.00	1.00	1.00	1.00
Wetlands_Floodplain	VA	0.95	0.95	0.95	0.95
Wetlands_Other	VA	0.95	0.95	0.95	0.95

Proposed Change for Phase 6 Final

Phase 6 Land Use	State	2013 SpaceConstrained	1985-2012 SpaceConstrained	2013 Unconstrained	1985-2012 Unconstrained
Cropland	VA	0.95	0.85	0.95	0.95
Forest	VA	0.98	0.85	0.98	0.98
Impervious Non-Roads	VA	0.94	0.85	0.95	0.95
Impervious Roads	VA	0.94	0.85	0.95	0.95
Mixed Open	VA	0.87	0.85	0.95	0.95
Pasture	VA	0.91	0.85	0.95	0.95
Tree Canopy over Impervious	VA	0.75	0.75	0.95	0.95
Tree Canopy over Turf	VA	0.83	0.83	0.95	0.95
Turf Grass	VA	0.72	0.72	0.95	0.95
Water	VA	1.00	1.00	1.00	1.00
Wetlands_Floodplain	VA	0.95	0.95	0.95	0.95
Wetlands_Other	VA	0.95	0.95	0.95	0.95

Accuracies based on the "Fuzzy User's Accuracy for each Land Use", as reported by Sanborn, 2016

Mixed Open assigned same accuracy as "Barren" and "Scrub/Shrub" land cover

Constrained Scenario: Census of Agriculture EXCEEDS mapped acres of agriculture.

Modeling Segment	Mapped Land Use	Acres	Accuracy	Error Acres	New Acres
LRSEG #1	Impervious, Roads	30	94%	2	29
LRSEG #1	Impervious, Other	100	94%	6	97
LRSEG #1	Trees over Impervious	10	75%	3	9
LRSEG #1	Water	20	100%	0	20
LRSEG #1	Wetlands, Floodplain	100	95%	5	97
LRSEG #1	Wetlands, Other	150	95%	8	146
LRSEG #1	Forest	450	98%	9	445
LRSEG #1	Trees over Turf Grass	100	83%	17	91
LRSEG #1	Mixed Open	100	87%	13	93
LRSEG #1	Turf Grass	400	72%	112	341
LRSEG #1	Crops (Census)	750	80%	150	671
LRSEG #1	Pasture (Census)	850	80%	170	760
Total Land Use Acres		3060		494	2,800
Total LRSEG #1 Acres		2800			
Final Agricultural Acres					1,432

Unconstrained Scenario: Census of Agriculture ACCOMMODATED within mapped acres of agriculture.

Modeling Segment	Mapped Land Use	Acres	Accuracy	Error Acres	New Acres
LRSEG #2	Impervious, Roads	30	94%	2	31
LRSEG #2	Impervious, Other	100	94%	6	102
LRSEG #2	Trees over Impervious	10	75%	3	11
LRSEG #2	Water	20	100%	0	20
LRSEG #2	Wetlands, Floodplain	100	95%	5	101
LRSEG #2	Wetlands, Other	150	95%	8	152
LRSEG #2	Forest	450	98%	9	453
LRSEG #2	Trees over Turf Grass	100	83%	17	105
LRSEG #2	Mixed Open	100	87%	13	104
LRSEG #2	Turf Grass	400	72%	112	432
LRSEG #2	Crops (Census)	750	80%	150	793
LRSEG #2	Pasture (Census)	850	80%	170	898
Total Land Use Acres		3060		494	3,200
Total LRSEG #2 Acres		3200			
Final Agricultural Acres					1,691

Ag Census Reporting Accuracy for Cnty X = 80%
 Ag Census Acres = 1600

Constrained Scenario: Census of Agriculture EXCEEDS mapped acres of agriculture.

Modeling Segment	Mapped Land Use	Acres	Accuracy	Error Acres	New Acres
LRSEG #1	Impervious, Roads	30	94%	2	29
LRSEG #1	Impervious, Other	100	94%	6	97
LRSEG #1	Trees over Impervious	10	75%	3	9
LRSEG #1	Water	20	100%	0	20
LRSEG #1	Wetlands, Floodplain	100	95%	5	97
LRSEG #1	Wetlands, Other	150	95%	8	146
LRSEG #1	Forest	450	98%	9	445
LRSEG #1	Trees over Turf Grass	100	83%	17	90
LRSEG #1	Mixed Open	100	87%	13	93
LRSEG #1	Turf Grass	400	72%	112	336
LRSEG #1	Crops	700	95%	35	680
LRSEG #1	Pasture	800	91%	72	759
Total Land Use Acres		2960		281	2,800
Total LRSEG #1 Acres		2800			
Final Agricultural Acres					1,439

Unconstrained Scenario: Census of Agriculture ACCOMMODATED within mapped acres of agriculture.

Modeling Segment	Mapped Land Use	Acres	Accuracy	Error Acres	New Acres
LRSEG #2	Impervious, Roads	30	94%	2	32
LRSEG #2	Impervious, Other	100	94%	6	105
LRSEG #2	Trees over Impervious	10	75%	3	12
LRSEG #2	Water	20	100%	0	20
LRSEG #2	Wetlands, Floodplain	100	95%	5	104
LRSEG #2	Wetlands, Other	150	95%	8	156
LRSEG #2	Forest	450	98%	9	458
LRSEG #2	Trees over Turf Grass	100	83%	17	115
LRSEG #2	Mixed Open	100	87%	13	111
LRSEG #2	Turf Grass	400	72%	112	496
LRSEG #2	Crops	700	95%	35	730
LRSEG #2	Pasture	800	91%	72	862
Total Land Use Acres		2960		281	3,200
Total LRSEG #2 Acres		3200			
Final Agricultural Acres					1,591

Mapped Cropland and Pasture Accuracies = 95% and 91%
 Mapped Agricultural Acres = 1500