Supplementary Materials: Random Forest and Support Vector Machine Accuracy Evaluation

2017 RF						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	11	1	3	1	0	4
Water	0	16	4	2	0	0
Maize Growing Area	0	1	782	0	2	1
Bare Ground	1	2	2	8	0	8
Road	1	2	4	1	5	0
Form of Mountain	0	1	0	2	0	3745
User Accuracy(%)	84.62	69.57	98.36	57.14	71.43	99.66
Producer Accuracy(%)	55.00	72.73	99.49	38.10	38.46	99.91
Overall Accuracy(%)	99.07					
Kappa	0.970					
2017 SVM						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	47	0	1	41	2	27
Water	0	32	0	3	1	6
Maize Growing Area	3	1	75	29	0	3
Bare Ground	41	13	76	1311	0	401
Road	2	1	0	5	0	16
Form of Mountain	180	17	0	210	19	32051
User Accuracy(%)	17.22	50.00	49.34	81.99	0	98.61
Producer Accuracy(%)	39.83	76.19	67.57	71.17	0	98.69
Overall Accuracy(%)	96.83					
Kappa	0.728					
2018 RF						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	16	1	1	4	0	2
Water	0	15	2	4	1	1
Maize Growing Area	0	1	792	1	2	3

Bare Ground	2	1	5	8	0	7
Road	1	2	7	2	10	0
Form of Mountain	0	0	0	1	0	3788
User Accuracy(%)	84.21	75.00	98.14	40.00	76.92	99.66
Producer Accuracy(%)	66.67	65.22	99.12	34.78	45.45	99.97
Overall Accuracy(%)	98.91					
Kappa	0.965					
2018 SVM						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	22	0	15	29	1	48
Water	0	22	7	3	0	10
Maize Growing Area	5	1	43	9	0	45
Bare Ground	36	2	26	1370	0	393
Road	4	0	2	9	2	17
Form of Mountain	10	5	14	206	1	32333
User Accuracy(%)	28.57	73.33	40.19	84.26	50.00	98.44
Producer Accuracy(%)	19.13	52.38	41.75	74.99	5.88	99.28
Overall Accuracy(%)	97.41					
Kappa	0.762					
2019 RF						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	9	1	6	1	0	2
Water	0	13	2	0	1	3
Maize Growing Area	1	0	783	1	3	2
Bare Ground	1	0	3	5	0	7
Road	2	2	9	0	5	0
Form of Mountain	0	1	2	7	0	3752
User Accuracy(%)	69.23	76.47	97.27	35.71	55.56	99.63
Producer Accuracy(%)	47.37	68.42	99.11	31.25	27.78	99.73
Overall Accuracy(%)	98.77					
Kappa	0.960					

2019 SVM						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	45	0	0	22	0	44
Water	0	20	0	1	0	14
Maize Growing Area	1	2	67	38	0	3
Bare Ground	11	0	4	1399	0	480
Road	1	0	0	12	0	28
Form of Mountain	10	5	0	117	0	32048
User Accuracy(%)	66.18	74.07	94.37	88.04	0	98.26
Producer Accuracy(%)	40.54	57.14	60.36	73.86	0	99.59
Overall Accuracy(%)	97.69					
Kappa	0.788					
2020 RF						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	10	0	3	1	0	4
Water	2	6	4	0	0	1
Maize Growing Area	2	0	780	1	3	3
Bare Ground	1	0	3	7	0	2
Road	1	3	7	0	6	0
Form of Mountain	1	1	3	1	0	3805
User Accuracy(%)	58.82	60.00	97.50	70.00	66.67	99.74
Producer Accuracy(%)	55.56	46.15	98.86	53.85	35.29	99.84
Overall Accuracy(%)	98.99					
Kappa	0.967					
2020 SVM						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	46	0	0	31	2	26
Water	1	18	1	1	1	13
Maize Growing Area	8	1	28	65	0	1
Bare Ground	58	0	25	1506	0	265

Road	0	0	0	12	1	14
Form of Mountain	15	4	5	226	33	32110
User Accuracy(%)	35.94	78.26	47.46	81.80	2.70	99.02
Producer Accuracy(%)	43.81	51.43	27.18	81.23	3.70	99.13
Overall Accuracy(%)	97.66					
Kappa	0.797					
2021 RF						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	16	0	3	4	0	3
Water	0	13	3	1	0	3
Maize Growing Area	0	0	790	0	1	2
Bare Ground	2	0	3	7	1	6
Road	1	2	11	0	9	0
Form of Mountain	0	0	3	0	0	3892
User Accuracy(%)	84.21	86.67	97.17	58.33	81.82	99.64
Producer Accuracy(%)	61.54	65.00	99.62	36.84	39.13	99.92
Overall Accuracy(%)	98.97					
Kappa	0.966					
2021 SVM						
	Urban Area	Water	Maize Growing Area	Bare Ground	Road	Form of Mountain
Urban Area	46	0	0	42	0	20
Water	0	26	0	6	2	8
Maize Growing Area	1	5	100	14	0	1
Bare Ground	11	3	404	1366	0	121
Road	8	0	1	12	0	11
Form of Mountain	132	21	2	124	1258	30582
User Accuracy(%)	23.23	47.27	19.72	87.34	0	99.48
Producer Accuracy(%)	42.59	61.90	82.64	71.71	0	95.21
Overall Accuracy(%)	93.57					
Kappa	0.597					