

Change	Total Area (km ²)
Veg -> Veg	49.21
Veg -> Int Veg	24.14
Veg -> Fallow	158.19
Int veg -> Int Veg	96.33
Int Veg -> Veg	23.24
Int Veg -> Fallow	206.53
Fallow -> Fallow	5370.07
Fallow -> Veg	140.87
Fallow -> Int Veg	136.23
Water -> Water	9.7
Water -> Int Veg	4.57
Water -> Bare field	2.08
Bare field -> Bare field	113.76
Urban	173.28
 Total agriculture gained	 281.67
Total agriculture lost	364.72
 Total water lost	 6.65
In percentage	68.55670103

Difference in agricultural output: -83.05

Total vegetation gained
Total vegetation lost

2006-2010	2010-2014
281.67	171.35
364.72	428.2

Change	Total (km ²)
Veg -> Veg	7.91
Veg -> Int Veg	21.03
Veg -> Fallow	150.47
Int veg -> Int Veg	39.2
Int Veg -> Veg	24.69
Int Veg -> Fallow	277.73
Fallow -> Fallow	5607.1
Fallow -> Veg	22.67
Fallow -> Int Veg	148.68
Water -> Water	8.89
Urban	170.27
Bare Field -> Water	21.24
Bare field -> Bare field	7.97
Total vegetation gained	171.35
Total vegetation lost	428.2

	2010-2014	2006-2010
Total vegetation gained	171.35	281.67
Total vegetation lost	428.2	364.72

Overall Accuracy = (194/229) 84.7162%

Kappa Coefficient = 0.8158

Classes	Prod. Acc. Percent	User Acc. Percent	Prod. Acc. Pixels	User Acc. Pixels
Veg -> Veg	92.86	100	13/14	13/13
Veg -> Int Veg	75	42.86	3/4	3/7
Veg -> Fallow	100	75	3/3	3/4
Int Veg -> Int Veg	73.91	85	17/23	17/20
Int Veg -> Veg	100	100	3/3	3/3
Int Veg -> Fallow	55.56	100	5/9	5/5
Fallow -> Fallow	86.96	81.08	60/69	60/74
Fallow -> Veg	100	100	28/28	28/28
Fallow -> Int Veg	80	100	28/35	28/28
Water -> Water	100	100	2/2	2/2
Water -> Bare field	100	100	2/2	2/2
Bare field -> Bare field	0	0	0/3	0/5
Urban	88.24	78.95	30/34	30/38

Classes	Veg -> Veg	Veg -> Int Veg	Veg -> Fallow	Int Veg -> Int
---------	------------	----------------	---------------	----------------

Int Veg -> V Int Veg -> F Fallow -> F̄ Fallow -> V̄ Fallow -> In Water -> W Water -> B̄ Bare field -> Urban

Classes	1	2	3	4	5	6	7	8	9	10
1. Veg -> Veg	13	0	0	0	0	0	0	0	0	0
2. Veg -> Int Veg	0	3	0	4	0	0	0	0	0	0
3. Veg -> Fallow	0	1	3	0	0	0	0	0	0	0
4. Int Veg -> Int Veg	1	0	0	17	0	2	0	0	0	0
5. Int Veg -> Veg	0	0	0	0	3	0	0	0	0	0
6. Int Veg -> Fallow	0	0	0	0	0	5	0	0	0	0
7. Fallow -> Fallow	0	0	0	1	0	1	60	0	7	0
8. Fallow -> Veg	0	0	0	0	0	0	0	28	0	0
9. Fallow -> Int Veg	0	0	0	0	0	0	0	0	28	0
10. Water -> Water	0	0	0	0	0	0	0	0	0	2
11. Water -> Bare field	0	0	0	0	0	0	0	0	0	0
12. Bare field -> Bare field	0	0	0	0	0	1	4	0	0	0
13. Urban	0	0	0	1	0	0	5	0	0	0
Sum	14	4	3	23	3	9	69	28	35	2
Prod. Acc.	92.9	75	100	73.9	100	55.6	87	100	80	100

11	12	13	Sum	User Acc.
0	0	0	13	100
0	0	0	7	42.86
0	0	0	4	75
0	0	0	20	85
0	0	0	3	100
0	0	0	5	100
0	1	4	74	81.08
0	0	0	28	100
0	0	0	28	100
0	0	0	2	100
2	0	0	2	100
0	0	0	5	0
0	2	30	38	78.95
2	3	34	229	
100	0	88.2		84.72%

Overall Accuracy = (217/251) 86.4542%

Kappa Coefficient = 0.8398

Classes	Prod. Acc. Percent	User Acc. Percent	Prod. Acc. Pixels	User Acc. Pixels
Veg -> Veg	100	100	4/4	4/4
Veg -> Int Veg	100	100	4/4	4/4
Veg -> Fallow	88.89	97.56	40/45	40/41
Int Veg -> Int Veg	55.56	90.91	10/18	10/11
Int Veg -> Veg	100	20	1/1	1/5
Int Veg -> Fallow	97.83	80.36	45/46	45/56
Fallow -> Fallow	81.82	93.75	45/55	45/48
Fallow -> Veg	100	83.33	5/5	5/6
Fallow -> Int Veg	86.21	78.13	25/29	25/32
Water -> Water	100	100	2/2	2/2
Urban	94.59	87.5	35/37	35/40
Bare field -> Water	100	50	1/1	1/2
Bare field -> Bare field	0	0	0/4	0/0

Class	1	2	3	4	5	6	7	8	9	10	11	12	13	Sum
1. Veg -> Veg	4	0	0	0	0	0	0	0	0	0	0	0	0	4
2. Veg -> Int Veg	0	4	0	0	0	0	0	0	0	0	0	0	0	4
3. Veg -> Fallow	0	0	40	0	0	1	0	0	0	0	0	0	0	41
4. Int Veg -> Int Veg	0	0	0	10	0	0	0	0	1	0	0	0	0	11
5. Int Veg -> Veg	0	0	0	4	1	0	0	0	0	0	0	0	0	5
6. Int Veg -> Fallow	0	0	5	2	0	45	3	0	1	0	0	0	0	56
7. Fallow -> Fallow	0	0	0	0	0	0	45	0	1	0	2	0	0	48
8. Fallow -> Veg	0	0	0	0	0	0	0	5	1	0	0	0	0	6
9. Fallow -> Int Veg	0	0	0	2	0	0	5	0	25	0	0	0	0	32
10. Water -> Water	0	0	0	0	0	0	0	0	0	2	0	0	0	2
11. Urban	0	0	0	0	0	0	1	0	0	0	35	0	4	40
12. Bare field -> Water	0	0	0	0	0	0	1	0	0	0	0	1	0	2
13. Bare field	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sum	4	4	45	18	1	46	55	5	29	2	37	1	4	251
Prod. Acc.	100	100	89	56	100	98	82	100	86	100	95	100	0	

User. Acc.

100

100

97.56

90.91

20

80.36

93.75

83.33

78.13

100

87.5

50

0

86.45%