

Supplementary Information

Supplement 1: Full confusion matrices for the different processing units

Supplement 2: Proportional coverage of the five main tree species Sessile and Pedunculate Oak, European Beech, Norway Spruce, Douglas Fir and Scots Pine in the 22 processing units according to the state forest inventory data.

Processing Unit 1

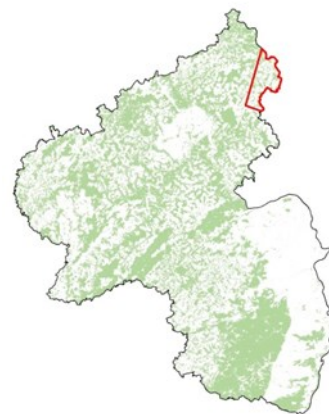
total area: 1673km²
 forested area: 44%
 spring scene: 2011-04-24 SPOT4
 summer scene: 2008-07-31 SPOT5
 overall accuracy=86.3%
 Kappa statistic=0.81



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	65	10	0	0	0	75
European beech	17	60	0	0	0	77
Norway spruce	0	0	214	9	14	237
Douglas fir	0	1	6	64	4	75
Scots pine	0	2	5	6	62	75
Σ	82	73	225	79	80	539

Processing Unit 2

total area: 315km²
 forested area: 31%
 spring scene: 2011-04-25 SPOT5
 summer scene: 2008-07-31 SPOT5
 overall accuracy=85.5%
 Kappa statistic=0.75



	Oak	European beech	Norway spruce	Σ		
Oak	39	36	0	75		
European beech	16	100	5	121		
Norway spruce	1	4	225	230		
Σ	55	140	230	426		

Processing Unit 3

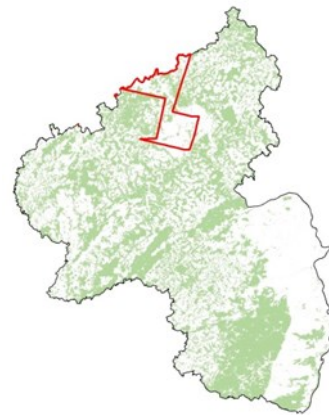
total area: 752km²
 forested area: 54%
 spring scene: 2008-05-05 SPOT5
 summer scene: 2009-08-16 SPOT5
 overall accuracy=79.8%
 Kappa statistic=0.74



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	91	10	0	0	1	102
European beech	17	61	3	0	4	85
Norway spruce	0	0	118	12	4	134
Douglas fir	0	0	10	64	1	75
Scots pine	0	0	26	7	42	75
Σ	108	71	157	83	52	471

Processing Unit 4

total area: 755km²
 forested area: 23%
 spring scene: 2008-05-10 SPOT5
 summer scene: 2009-08-16 SPOT5
 overall accuracy= 79.5%
 Kappa statistic=0.74



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	95	42	0	0	0	137
European beech	8	112	0	0	0	120
Norway spruce	0	0	73	2	0	75
Douglas fir	0	0	26	42	7	75
Scots pine	0	0	8	6	61	75
Σ	103	154	107	50	68	482

Processing Unit 5

total area: 1294km²
 forested area: 40%
 spring scene: 2011-04-25 SPOT5
 summer scene: 2008-07-31 SPOT5
 overall accuracy= 70.7%
 Kappa statistic= 0.62



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	75	22	0	0	0	97
European beech	50	143	0	2	1	196
Norway spruce	0	0	64	10	1	75
Douglas fir	2	0	19	51	3	75
Scots pine	1	0	21	20	33	75
Σ	128	165	104	83	38	518

Processing Unit 6

total area: 1510km²
 forested area: 35%
 spring scene: 2008-05-05 SPOT5
 summer scene: 2008-07-15 SPOT5
 overall accuracy=82.0%
 Kappa statistic=0.75



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	65	9	0	1	0	75
European beech	5	70	0	0	0	75
Norway spruce	0	0	194	8	14	216
Douglas fir	0	0	22	51	2	75
Scots pine	0	0	28	4	43	75
Σ	70	79	244	64	59	516

Processing Unit 7

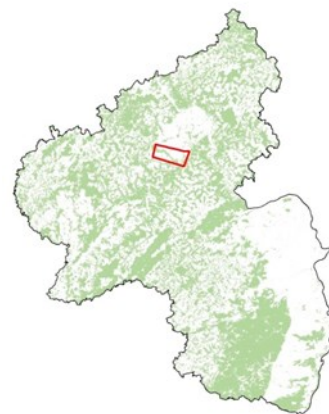
total area: 553km²
 forested area: 36%
 spring scene: 2008-05-05 SPOT5
 summer scene: 2009-08-16 SPOT5
 overall accuracy=81.4%
 Kappa statistic=0.75



	Oak	European beech	Norway spruce	Douglas fir	Σ	
Oak	81	11	1	1	94	
European beech	20	83	0	2	105	
Norway spruce	0	0	90	25	115	
Douglas fir	0	0	12	60	72	
Σ	101	94	103	88	386	

Processing Unit 8

total area: 137km²
 forested area: 18%
 spring scene: 2010-05-22 SPOT5
 summer scene: 2009-08-16 SPOT5
 overall accuracy=81.5%
 Kappa statistic=0.72



	Oak	European beech	Norway spruce	Douglas fir	Σ	
Oak	69	13	0	0	82	
European beech	3	22	0	0	25	
Norway spruce	2	0	19	4	25	
Douglas fir	1	0	6	18	25	
Σ	75	35	25	22	157	

Processing Unit 9

total area: 1977km²
 forested area: 41%
 spring scene: 2008-05-05 SPOT5
 summer scene: 2009-08-31 SPOT5
 overall accuracy = 79.3%
 Kappa statistic= 0.74



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	50	24	0	0	1	75
European beech	7	68	0	0	0	75
Norway spruce	0	0	64	11	0	75
Douglas fir	0	0	19	100	5	124
Scots pine	0	0	11	10	54	75
Σ	57	92	94	121	60	424

Processing Unit 10

total area: 1108km²
 forested area: 42%
 spring scene: 2010-04-06 RapidEye
 summer scene: 2006-07-03 SPOT5
 overall accuracy= 76.4%
 Kappa statistic= 0.68



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	90	2	0	0	0	92
European beech	50	25	0	0	0	75
Norway spruce	0	0	203	12	7	222
Douglas fir	2	0	13	57	3	75
Scots pine	0	0	34	4	37	75
Σ	142	27	250	73	47	539

Processing Unit 11

total area: 1132km²
 forested area: 51%
 spring scene: 2010-04-18 SPOT5
 summer scene: 2010-07-03 SPOT5
 overall accuracy = 80.5%
 Kappa statistic = 0.75



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	126	24	0	1	0	151
European beech	19	54	0	0	2	75
Norway spruce	0	0	102	8	11	121
Douglas fir	0	3	4	62	6	75
Scots pine	0	1	5	13	56	75
Σ	145	82	111	84	75	497

Processing Unit 12

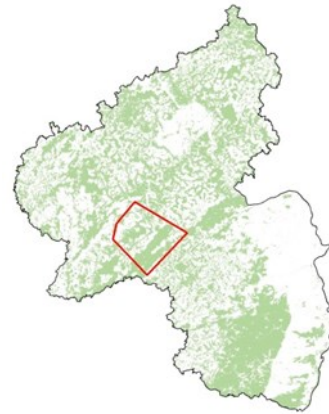
total area: 1288km²
 forested area: 5%
 spring scene: 2009-05-25 SPOT5
 summer scene: 2009-08-05 SPOT5
 overall accuracy=64.1%
 Kappa statistic= 0.54



	Oak	European beech	Douglas fir	Scots pine	Σ	
Oak	35	80	0	0	115	
European beech	2	46	0	1	49	
Douglas fir	0	0	33	4	37	
Scots pine	0	0	3	47	50	
Σ	37	126	36	52	251	

Processing Unit 13

total area: 833km²
 forested area: 53%
 spring scene: 2010-04-06 RapidEye
 summer scene: 2010-08-07 RapidEye
 overall accuracy= 75.9%
 Kappa statistic= 0.69



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	69	16	0	0	1	86
European beech	29	76	0	0	2	107
Norway spruce	0	0	115	23	9	147
Douglas fir	0	1	0	73	0	74
Scots pine	6	2	21	8	38	75
Σ	104	95	136	104	50	489

Processing Unit 14

total area: 287km²
 forested area: 46%
 spring scene: 2010-04-06 RapidEye
 summer scene: 2010-07-08 SPOT5
 overall accuracy = 71.9%
 Kappa statistic= 0.61



	Oak	Becch	Norway spruce	Douglas fir	Scots pine	Σ
Oak	200	36	0	17	31	284
European beech	22	38	1	3	6	70
Norway spruce	0	0	63	11	1	75
Douglas fir	3	0	12	55	5	75
Scots pine	7	0	0	8	60	75
Σ	232	74	76	94	103	579

Processing Unit 15

total area: 532km²
 forested area: 43%
 spring scene: 2010-04-06 RapidEye
 summer scene: 2010-07-08 SPOT5
 overall accuracy = 74.5%
 Kappa statistic= 0.66



	Oak	European beech	Norway spruce	Douglas fir	Σ	
Oak	86	15	1	4	106	
European beech	38	74	2	5	119	
Norway spruce	1	0	105	17	123	
Douglas fir	2	0	20	42	64	
Σ	127	89	128	68	412	

Processing Unit 16

total area: 423km²
 forested area: 37%
 spring scene: 2010-04-06 RapidEye
 summer scene: 2010-08-07 RapidEye
 overall accuracy=63.3%
 Kappa statistic=0.43



	Oak	European beech	Douglas fir	Scots pine	Σ	
Oak	149	45	9	10	213	
European beech	43	64	21	7	135	
Douglas fir	0	0	20	3	23	
Scots pine	1	7	6	29	43	
Σ	193	116	56	49	414	

Processing Unit 17

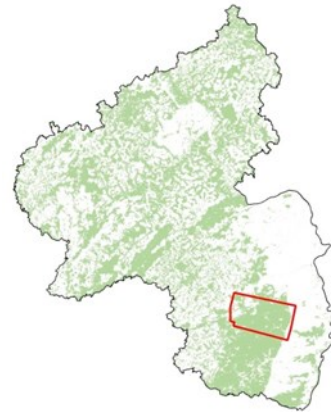
total area: 1593km²
 forested area: 20%
 spring scene: 2009-04-20 SPOT4
 summer scene: 2005-08-31 SPOT5
 overall accuracy=87.1%
 Kappa statistic=0.82



	Oak	European beech	Douglas fir	Scots pine	Σ	
Oak	112	16	0	0	128	
European beech	24	51	0	0	75	
Douglas fir	0	1	53	11	65	
Scots pine	1	0	2	154	157	
Σ	137	68	55	165	425	

Processing Unit 18

total area: 611km²
 forested area: 74%
 spring scene: 2009-04-20 SPOT4
 summer scene: 2005-08-31 SPOT5
 overall accuracy=73.1%
 Kappa statistics=0.61



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	63	12	0	0	0	75
European beech	12	63	0	0	0	75
Norway spruce	0	0	54	0	21	75
Douglas fir	0	1	5	7	46	59
Scots pine	0	2	45	0	205	252
Σ	75	78	104	7	272	536

Processing Unit 19

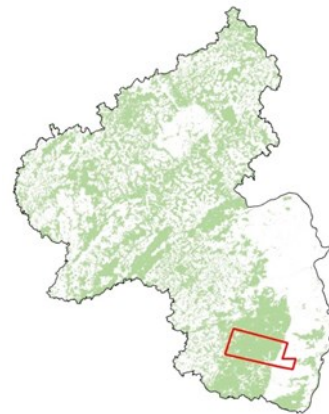
total area: 869km²
 forested area: 36%
 spring scene: 2008-05-10 SPOT5
 summer scene: 2008-07-31 SPOT5
 overall accuracy=76.6%
 Kappa statistic=0.70



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	64	9	0	0	6	79
European beech	21	75	1	0	7	104
Norway spruce	1	2	59	4	9	75
Douglas fir	2	3	7	55	8	75
Scots pine	7	2	8	8	90	115
Σ	95	91	75	67	120	448

Processing Unit 20

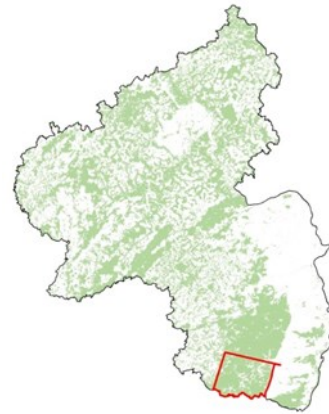
total area: 459km²
 forested area: 74%
 spring scene: 2009-04-20 SPOT4
 summer scene: 2005-09-05 SPOT5
 overall accuracy= 69.1%
 Kappa statistic=0.61



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	56	19	0	0	0	75
European beech	21	70	0	0	0	91
Norway spruce	0	1	57	11	6	75
Douglas fir	0	1	28	36	10	75
Scots pine	0	1	24	24	107	156
Σ	77	92	109	71	123	472

Processing Unit 21

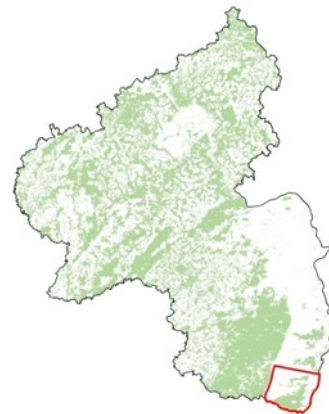
total area: 575km²
 forested area: 80%
 spring scene: 2010-04-07 SPOT5
 summer scene: 2005-09-05 SPOT5
 overall accuracy=76.9%
 Kappa statistic=0.70



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	55	19	0	1	0	75
European beech	16	59	0	0	0	75
Norway spruce	0	0	63	7	5	75
Douglas fir	0	0	7	61	7	75
Scots pine	0	0	47	12	165	224
Σ	71	78	117	81	177	524

Processing Unit 22

total area: 519km²
 forested area: 32%
 spring scene: 2010-04-07 SPOT5
 summer scene: 2010-07-14 SPOT5
 overall accuracy=79.1%
 Kappa statistic=0.70



	Oak	European beech	Douglas fir	Scots pine	Σ	
Oak	102	20	0	0	122	
European beech	20	55	0	0	75	
Douglas fir	0	1	41	31	73	
Scots pine	1	2	24	177	204	
Σ	123	78	65	208	474	

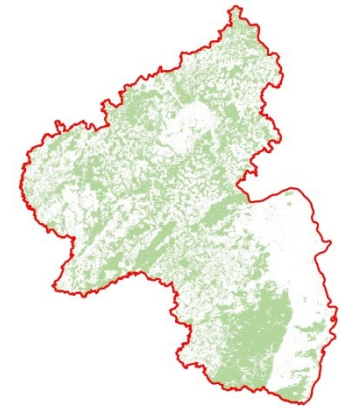
Rhineland-Palatinate

total area: 19847km²

forested area: 42%

overall accuracy=83.5%

Kappa statistic=0.79



	Oak	European beech	Norway spruce	Douglas fir	Scots pine	Σ
Oak	1718	281	6	10	31	2046
European beech	398	1576	1	4	4	1983
Norway spruce	0	4	1508	106	28	1646
Douglas fir	4	1	277	1149	69	1500
Scots pine	2	2	180	57	1469	1710
Σ	2122	1864	1972	1326	1601	8885

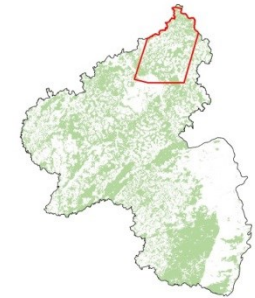
15 classes: overall accuracy=55.0%

Kappa statistic=0.52

	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Stand Qualification	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Stand Qualification	Douglas Fir Dimensioning	Douglas Fir Maturing	Scots Pine Stand Qualification	Scots Pine Dimensioning	Scots Pine Maturing	Σ
Oak stand qualification	379	103	37	39	5	8	2	1	0	2	1	0	1	0	2	580
Oak dimensioning	122	443	149	25	44	42	2	0	1	5	0	0	2	6	11	852
Oak maturing	64	195	226	23	29	66	0	0	0	2	0	0	1	2	6	614
European Beech Stand Qualification	49	23	16	319	70	41	1	0	0	1	0	0	0	0	0	520
European Beech Dimensioning	27	61	29	135	311	73	0	0	0	0	0	0	0	0	0	636
European Beech Maturing	23	47	123	71	101	455	0	0	0	2	0	1	0	0	4	827
Norway Spruce Stand Qualification	0	0	0	2	2	0	347	87	2	8	28	14	6	0	4	500
Norway Spruce Dimensioning	0	0	0	0	0	0	28	371	130	2	23	13	0	2	11	580
Norway Spruce Maturing	0	0	0	0	0	0	8	119	416	0	5	13	0	0	5	566
Douglas Fir Stand Qualification	1	2	0	1	0	0	86	9	1	187	169	17	14	2	11	500
Douglas Fir Dimensioning	0	0	1	0	0	0	15	61	24	17	303	48	11	16	4	500
Douglas Fir Maturing	0	0	0	0	0	0	1	34	46	1	236	171	1	3	7	500
Scots Pine Stand Qualification	0	0	0	0	0	0	6	0	0	1	0	0	424	69	0	500
Scots Pine Dimensioning	0	0	0	0	0	0	12	2	9	0	11	6	91	248	121	500
Scots Pine Maturing	1	1	0	1	0	1	16	58	77	3	28	8	50	184	282	710
Σ	666	875	581	616	562	686	524	742	706	231	804	291	601	532	468	8885

Processing Unit 1

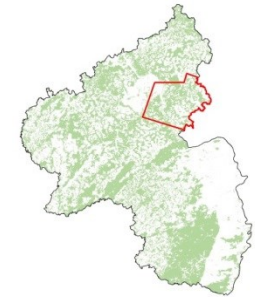
total area: 1673km²
 forested area: 44%
 sping scene: 2011-04-24 SPOT4
 summer scene: 2008-07-31 SPOT5
 overall accuracy=44.6%
 Kappa statistic=0.37



	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Stand Qualification	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Dimensioning	Scots Pine Dimensioning	Scots Pine Maturing	Σ
Oak dimensioning	13	2	1	4	1	0	0	0	0	0	0	21
Oak maturing	2	20	3	0	0	0	0	0	0	0	0	25
European Beech Stand Qualification	0	0	8	16	0	0	0	0	0	0	0	24
European Beech Dimensioning	1	0	1	19	7	0	0	0	0	0	0	28
European Beech Maturing	2	16	0	2	23	0	0	0	0	0	0	43
Norway Spruce Stand Qualification	0	0	0	0	0	3	16	3	1	1	0	24
Norway Spruce Dimensioning	0	0	0	0	0	0	25	115	2	0	4	146
Norway Spruce Maturing	0	0	0	0	0	0	3	53	1	0	6	63
Douglas Fir Dimensioning	0	0	0	0	0	0	1	0	10	0	0	11
Scots Pine Dimensioning	0	0	0	0	0	0	0	0	0	0	23	23
Scots Pine Maturing	0	0	1	0	1	0	1	2	0	0	18	23
Σ	18	38	14	41	32	3	46	173	14	1	51	431

Processing Unit 5

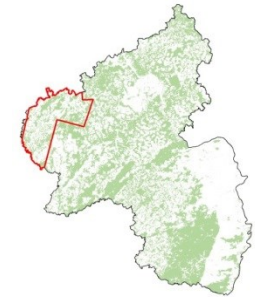
total area: 1294km²
 forested area: 40%
 spring scene: 2011-04-25 SPOT5
 summer scene: 2008-07-31 SPOT5
 overall accuracy=41.2%
 Kappa statistic=0.33



	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Stand Qualification	Douglas Fir Dimensioning	Σ
Oak stand qualification	14	7	0	2	1	1	0	0	0	0	25
Oak dimensioning	3	18	11	4	9	8	0	0	0	0	53
Oak maturing	4	7	20	0	4	4	0	0	1	0	40
European Beech Stand Qualification	0	0	0	13	12	0	0	0	0	0	25
European Beech Dimensioning	1	7	19	3	23	52	0	0	1	0	106
European Beech Maturing	0	3	25	3	4	47	0	0	1	0	83
Norway Spruce Dimensioning	0	0	0	0	0	0	11	32	0	2	45
Norway Spruce Maturing	0	0	0	0	0	0	3	20	0	0	23
Douglas Fir Stand Qualification	0	0	0	0	0	0	0	0	9	16	25
Douglas Fir Dimensioning	0	0	0	0	0	0	5	5	0	7	17
Σ	22	42	75	25	53	112	19	57	12	25	442

Processing Unit 6

total area: 1510km²
 forested area: 35%
 spring scene: 2008-05-05 SPOT5
 summer scene: 2008-07-15 SPOT5
 overall accuracy=59.3%%
 Kappa statistic=0.51



	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Stand Qualification	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Dimensioning	Scots Pine Dimensioning	Σ
Oak stand qualification	17	3	1	4	0	0	0	0	0	0	0	25
Oak dimensioning	8	23	5	1	0	0	0	0	0	0	0	37
Oak maturing	2	13	8	0	0	2	0	0	0	0	0	25
European Beech Stand Qualification	0	0	0	24	1	0	0	0	0	0	0	25
European Beech Dimensioning	1	1	0	16	14	2	0	1	0	0	0	35
European Beech Maturing	0	2	0	8	6	9	0	0	0	0	0	25
Norway Spruce Stand Qualification	0	0	0	0	0	0	14	7	3	1	0	25
Norway Spruce Dimensioning	0	0	0	0	0	0	0	109	37	1	0	147
Norway Spruce Maturing	0	0	0	0	0	0	0	27	19	4	0	50
Douglas Fir Dimensioning	0	0	0	0	0	0	0	8	5	15	0	28
Scots Pine Dimensioning	0	0	0	0	0	0	0	7	5	0	13	25
Σ	28	42	14	53	21	13	14	159	69	21	13	447

Processing Unit 9

total area: 1977km²
 forested area: 41%
 spring scene: 2008-05-05 SPOT5
 summer scene: 2009-08-31 SPOT5
 overall accuracy=50.3%%
 Kappa statistic=0.45



	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Stand Qualification	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Stand Qualification	Douglas Fir Dimensioning	Scots Pine Dimensioning	Scots Pine Maturing	Σ
Oak stand qualification	10	4	5	6	0	0	0	0	0	0	0	0	0	25
Oak dimensioning	13	15	5	2	2	4	0	0	0	0	0	0	0	41
Oak maturing	1	4	4	8	2	5	0	0	0	0	0	0	1	25
European Beech Stand Qualification	0	1	1	23	0	0	0	0	0	0	0	0	0	25
European Beech Dimensioning	0	2	1	17	7	7	0	0	0	0	0	0	0	34
European Beech Maturing	0	2	4	11	0	14	0	0	0	0	0	1	1	33
Norway Spruce Stand Qualification	0	0	0	0	0	0	6	6	3	2	5	0	0	22
Norway Spruce Dimensioning	0	0	0	0	0	0	0	65	10	1	9	3	3	91
Norway Spruce Maturing	0	0	0	0	0	0	0	20	4	0	1	0	0	25
Douglas Fir Stand Qualification	0	0	0	0	0	0	3	0	0	13	4	0	0	20
Douglas Fir Dimensioning	0	0	0	0	0	0	0	4	2	1	29	5	0	41
Scots Pine Dimensioning	0	0	0	0	0	0	0	5	0	0	5	27	8	45
Scots Pine Maturing	0	0	0	0	0	0	0	2	2	0	1	9	10	24
Σ	24	28	20	67	11	30	9	102	21	17	54	45	23	451

Processing Unit 11

total area: 1132km²

forested area: 51%

spring scene: 2010-04-18 SPOT5

summer scene: 2010-07-03 SPOT5

overall accuracy=47.3%%

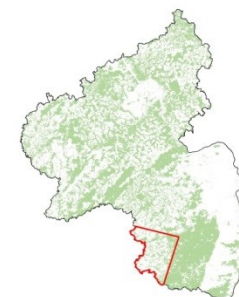
Kappa statistic=0.40



	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Stand Qualification	Douglas Fir Dimensioning	Douglas Fir Maturing	Scots Pine Dimensioning	Scots Pine Maturing	Σ
Oak stand qualification	47	11	6	10	2	10	3	1	1	0	4	1	4	100
Oak dimensioning	46	265	49	20	24	18	5	9	1	8	12	9	4	470
Oak maturing	85	119	317	18	31	66	9	11	6	17	28	11	8	726
European Beech Stand Qualification	2	4	0	21	0	3	2	0	0	1	1	3	0	37
European Beech Dimensioning	26	46	32	12	55	28	8	3	1	9	7	10	2	239
European Beech Maturing	42	39	31	23	16	268	13	10	5	5	35	4	5	496
Norway Spruce Dimensioning	1	0	0	0	5	2	19	2	1	4	4	2	5	45
Norway Spruce Maturing	0	2	0	0	1	3	1	13	0	1	2	3	1	27
Douglas Fir Stand Qualification	0	1	1	1	0	1	1	1	9	2	1	2	1	21
Douglas Fir Dimensioning	19	12	10	6	3	13	47	4	5	117	20	5	20	281
Douglas Fir Maturing	0	0	0	1	0	6	3	0	0	2	8	1	0	21
Scots Pine Dimensioning	2	5	4	0	2	2	7	2	3	0	1	42	1	71
Scots Pine Maturing	12	13	4	8	2	8	20	6	8	5	9	17	142	254
Σ	282	517	456	121	141	428	139	63	40	173	132	111	194	2797

Processing Unit 19

total area: 869km²
 forested area: 36%
 spring scene: 2008-05-10 SPOT5
 summer scene: 2008-07-31 SPOT5
 overall accuracy=43.9%%
 Kappa statistic=0.39



	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Stand Qualification	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Dimensioning	Scots Pine Dimensioning	Scots Pine Maturing	Σ
Oak stand qualification	17	1	1	3	3	0	0	0	0	0	0	0	25
Oak dimensioning	2	10	3	1	6	3	0	0	0	0	0	0	25
Oak maturing	1	0	38	1	12	2	0	0	0	0	0	0	54
European Beech Stand Qualification	0	0	0	17	8	0	0	0	0	0	0	0	25
European Beech Dimensioning	0	1	3	7	38	2	0	0	0	0	0	0	51
European Beech Maturing	1	3	21	12	23	5	0	0	0	0	0	0	65
Norway Spruce Stand Qualification	0	0	0	0	0	0	6	2	9	0	1	1	19
Norway Spruce Dimensioning	0	0	0	0	0	0	0	10	9	2	1	0	22
Norway Spruce Maturing	0	0	1	0	0	0	0	1	14	2	2	2	22
Douglas Fir Dimensioning	0	0	0	0	0	0	1	2	4	15	0	1	23
Scots Pine Dimensioning	0	0	0	0	0	0	0	5	12	10	9	35	71
Scots Pine Maturing	0	0	0	0	0	0	2	5	7	2	3	10	29
Σ	21	15	67	41	90	12	9	25	55	31	16	49	431

Processing Unit 20

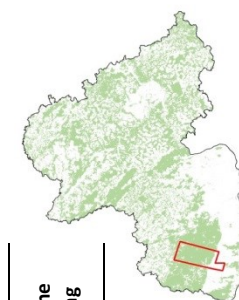
total area: 459km²

forested area: 74%

spring scene: 2009-04-20 SPOT4

summer scene: 2005-09-05 SPOT5

overall accuracy=39.4% Kappa statistic=0.35



	Oak stand qualification	Oak dimensioning	Oak maturing	European Beech Stand Qualification	European Beech Dimensioning	European Beech Maturing	Norway Spruce Stand Qualification	Norway Spruce Dimensioning	Norway Spruce Maturing	Douglas Fir Stand Qualification	Douglas Fir Dimensioning	Douglas Fir Maturing	Scots Pine Stand Qualification	Scots Pine Dimensioning	Scots Pine Maturing	Σ
Oak stand qualification	17	0	0	6	1	1	0	0	0	0	0	0	0	0	0	25
Oak dimensioning	17	5	3	0	0	0	0	0	0	0	0	0	0	0	0	25
Oak maturing	3	13	13	2	5	5	0	0	0	0	0	0	0	0	0	41
European Beech Stand Qualification	4	0	0	19	2	0	0	0	0	0	0	0	0	0	0	25
European Beech Dimensioning	2	3	4	8	8	4	0	0	0	0	0	0	0	0	0	29
European Beech Maturing	3	7	4	9	10	18	0	0	0	1	0	0	0	0	0	52
Norway Spruce Stand Qualification	0	0	0	1	0	0	14	0	0	8	1	0	1	0	0	25
Norway Spruce Dimensioning	0	0	0	0	0	0	3	4	4	0	5	3	0	2	4	25
Norway Spruce Maturing	0	0	0	0	0	0	2	3	15	0	2	1	0	0	2	25
Douglas Fir Stand Qualification	0	0	0	0	0	0	0	2	0	18	1	0	2	1	1	25
Douglas Fir Dimensioning	0	0	0	0	0	0	3	4	3	1	10	0	0	1	3	25
Douglas Fir Maturing	0	0	0	0	0	0	1	6	4	0	9	4	0	0	1	25
Scots Pine Stand Qualification	0	0	0	0	0	0	4	0	0	7	0	0	14	0	0	25
Scots Pine Dimensioning	0	0	0	1	0	3	1	2	3	4	1	1	4	18	19	57
Scots Pine Maturing	0	0	0	1	0	3	3	3	9	2	13	2	3	28	30	97
Σ	46	28	24	47	26	34	31	24	38	41	42	11	24	50	60	526

Supplement 2: Proportional coverage of the five main tree species Sessile and Pedunculate Oak, European Beech, Norway Spruce, Douglas Fir and Scots Pine in the 22 processing units according to the state forest inventory data.

Processing Unit	area (in ha)	total forest cover (in ha)	forest cover	inv. data cover	oak	European beech	Norway Spruce	Douglas Fir	Scots Pine	other tree species
1	167300	73000	43.6%	73.5%	14.8%	27.2%	44.7%	1.3%	2.9%	9.0%
2	31500	9800	31.1%	79.9%	6.3%	1.7%	51.6%	0.1%	0.0%	40.3%
3	75200	40800	54.3%	66.5%	26.7%	19.0%	35.4%	7.5%	9.5%	1.9%
4	75500	17200	22.8%	44.1%	26.3%	26.4%	24.1%	8.2%	7.6%	7.3%
5	129400	52300	40.4%	93.2%	21.9%	40.8%	22.2%	4.4%	4.1%	6.7%
6	151000	52600	34.8%	60.0%	10.7%	23.8%	47.8%	8.9%	3.1%	5.6%
7	55300	19700	35.6%	96.7%	20.4%	23.6%	38.8%	9.4%	3.4%	4.5%
8	13700	2500	18.2%	61.2%	57.6%	14.0%	17.9%	6.7%	0.0%	3.7%
9	197700	80300	40.6%	73.1%	18.9%	23.6%	26.8%	13.0%	11.7%	5.9%
10	110800	46100	41.6%	93.7%	35.8%	14.1%	30.0%	7.7%	4.5%	7.8%
11	113200	57900	51.1%	68.8%	37.7%	21.1%	26.2%	5.6%	2.5%	6.9%
12	128800	6400	5.0%	79.3%	42.1%	13.7%	1.4%	8.1%	13.9%	20.7%
13	83300	44500	53.4%	90.2%	19.7%	21.2%	42.5%	7.9%	2.5%	6.2%
14	28700	13200	46.0%	65.9%	58.2%	8.8%	10.9%	7.8%	0.4%	13.9%
15	53200	22800	42.9%	49.9%	24.2%	33.9%	28.2%	3.5%	1.8%	8.3%
16	42300	15800	37.4%	58.9%	37.9%	23.3%	2.1%	7.6%	17.7%	11.2%
17	159300	31900	20.0%	78.1%	25.1%	28.2%	1.0%	3.2%	31.4%	11.1%
18	61100	45400	74.3%	93.6%	4.5%	15.3%	6.6%	5.4%	65.4%	3.0%
19	86900	31700	36.5%	65.9%	18.9%	30.1%	14.5%	5.4%	25.4%	5.8%
20	45900	33900	73.9%	94.9%	15.0%	26.5%	8.2%	6.6%	40.4%	3.4%
21	57500	46100	80.2%	76.9%	11.3%	20.7%	7.3%	7.5%	48.4%	4.8%
22	51900	16400	31.6%	95.9%	28.6%	7.2%	0.1%	3.9%	45.8%	14.4%