

a) Initial classification scheme

		predicted																
		bgr	cru	cas	csu	dry	gra	hea	mbr	meq	hmo	gru	wdw	mgr	wet	wat	observation accuracy (%)	
observed	bgr	709	27	6	0	0	11	0	0	0	6	25	14	0	0	8	88.0	
	cru	0	1138	2	0	1	46	59	0	0	5	22	64	1	42	0	82.5	
	cas	0	17	974	0	26	1	0	0	0	0	23	222	0	33	17	74.2	
	csu	0	0	0	534	0	0	0	0	0	0	0	0	0	0	0	100	
	dry	0	8	4	0	973	22	0	0	0	0	21	109	6	70	0	80.2	
	gra	7	65	0	0	16	411	2	0	0	0	44	13	17	0	0	71.5	
	hea	0	4	0	0	0	0	1406	0	0	59	0	0	0	23	0	94.2	
	mbr	0	0	25	0	0	0	0	242	0	0	6	0	0	72	0	70.1	
	meq	0	0	16	0	3	0	0	0	1079	0	30	8	90	41	0	85.2	
	hmo	0	0	8	0	0	0	8	0	0	832	14	15	0	45	0	90.2	
	gru	12	31	21	25	32	0	7	0	71	0	2071	47	85	242	0	78.3	
	wdw	0	100	204	0	44	0	0	0	0	0	24	1153	0	5	0	75.4	
	mgr	0	0	34	0	21	19	0	0	40	1	132	12	1662	149	0	80.3	
	wet	0	12	0	0	0	0	0	0	29	14	240	19	25	2308	0	87.2	
	wat	1	0	1	0	0	0	0	0	3	0	0	0	22	0	0	2593	99.0
prediction accuracy (%)		97.3	81.2	75.2	95.5	87.2	80.6	94.9	98.8	88.5	90.7	78.1	67.9	88.1	76.2	99.0		

b) Simplified classification scheme

		predicted						observation accuracy (%)
		cru	veg	bgg	wat	gru	wdw	
observed	cru	709	27	6	0	0	11	74.3
	veg	0	1138	2	0	1	46	96.1
	bgg	0	17	974	0	26	1	80.6
	wat	0	0	0	534	0	0	97.5
	gru	0	8	4	0	973	22	66.8
	wdw	7	65	0	0	16	411	51.9
prediction accuracy (%)		78.4	87.3	78.0	99.7	86.2	73.0	

c) Optimized classification scheme

		predicted																
		bgr	cas	csu	dry	gra	mbr	meq	gru	wdc	mgr	wet	hea	wat	observation accuracy (%)			
observed	bgr	695	0	0	0	19	0	0	44	32	0	3	11	3	86.1			
	cas	0	1020	0	29	0	0	0	26	198	0	19	3	10	78.2			
	csu	0	0	534	0	0	0	0	0	0	0	0	0	0	100			
	dry	0	11	0	976	12	0	4	16	184	2	49	0	0	77.8			
	gra	15	0	0	25	409	0	0	11	112	3	0	0	0	71.1			
	mbr	0	9	0	0	0	284	0	1	0	0	50	1	0	82.3			
	meq	0	14	0	11	0	0	1071	19	10	105	37	0	0	84.5			
	gru	18	28	30	33	8	0	85	2073	102	71	183	15	0	78.3			
	wdc	19	348	0	44	43	0	2	44	2420	1	40	49	0	80.4			
	mgr	0	19	0	11	22	0	17	104	69	1685	138	6	0	81.4			
	wet	0	0	0	0	0	1	49	286	64	31	2198	18	0	83.0			
	hea	0	0	0	11	0	1	0	13	2	0	80	2307	0	95.6			
wat	4	2	0	0	0	0	0	0	17	0	0	0	2708	99.2				
prediction accuracy (%)		92.5	70.3	94.7	85.6	79.7	99.3	87.2	78.6	75.4	88.8	78.6	95.7	99.5				