

a) Initial classification scheme

		predicted														observation accuracy (%)	
		bgr	cru	cas	dry	gra	hea	meq	hmo	wat	gru	wdw	mgr	wet			
observed	bgr	149	25	0	0	18	0	0	0	1	9	7	0	0	71.3		
	cru	2	178	6	1	23	8	0	2	0	25	142	0	0	46.0		
	cas	0	1	587	4	0	0	7	21	0	57	6	4	0	85.4		
	dry	0	1	4	258	3	6	14	1	0	8	7	17	0	80.9		
	gra	18	36	0	0	380	2	0	0	0	0	12	0	0	84.8		
	hea	0	3	9	9	0	222	0	25	0	0	16	0	0	78.2		
	meq	0	0	1	3	0	0	152	2	0	0	0	7	11	86.4		
	hmo	0	0	28	0	0	17	2	96	0	42	10	14	0	45.9		
	wat	8	0	0	0	5	0	0	0	228	11	0	0	0	90.5		
	gru	0	21	1	4	0	2	0	0	0	820	2	34	15	91.2		
	wdw	2	120	24	9	5	26	0	0	0	0	895	0	0	82.8		
	mgr	0	1	0	7	0	0	15	0	0	40	0	264	19	76.3		
	wet	0	0	0	0	0	0	1	0	0	14	0	18	456	93.3		
	prediction accuracy (%)		83.2	46.1	88.9	87.5	87.6	78.4	79.6	65.3	99.6	79.9	81.6	73.7	91.0		

b) Simplified classification scheme

		predicted										
		bgg	cru	wat	gru	wdw	veg	observation accuracy (%)				
observed	bgg	546	51	3	6	14	1	87.9				
	cru	60	149	0	17	122	39	38.5				
	wat	13	0	240	8	0	1	91.6				
	gru	2	22	0	775	0	103	85.9				
	wdw	16	128	0	0	980	58	82.9				
	veg	0	0	0	38	28	2474	97.4				
prediction accuracy (%)		85.7	42.6	98.8	91.8	85.7	92.5					

c) Optimized classification scheme

		predicted														
		bgr	cas	dry	gra	meq	wat	gru	wdc	hea	mgr	wet	observation accuracy (%)			
observed	bgr	143	0	0	17	0	2	5	41	0	0	0	68.8			
	cas	0	614	10	0	1	0	30	9	5	3	0	91.4			
	dry	0	4	235	2	11	0	13	14	7	8	4	78.9			
	gra	17	0	0	370	0	0	0	57	1	0	0	83.1			
	meq	0	2	5	0	151	0	0	0	1	8	8	86.3			
	wat	4	0	0	8	0	219	15	0	0	0	0	89.0			
	gru	0	1	9	0	0	0	824	28	6	19	11	91.8			
	wdc	9	20	8	37	0	0	21	1340	25	0	0	91.8			
	hea	0	22	8	0	4	0	46	52	339	20	0	69.0			
	mgr	0	0	7	0	12	0	52	8	0	253	15	72.9			
wet	0	0	0	0	4	0	12	0	0	16	455	93.4				
prediction accuracy (%)		82.7	92.6	83.3	85.3	82.5	99.1	80.9	86.5	88.3	77.4	92.3				