

Appendix 4: Incremental increase in pasture production from capital increase in nutrients or lime

Olsen phosphorus (mg/kg). Red font indicates critical value of 95% maximum production.

	End (target) Olsen P																
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
4	0	8	15	20	25	28	31	34	36	37	39	40	41	41	42	42	43
5		0	7	12	17	20	23	26	28	29	31	32	32	33	34	34	35
6			0	5	10	14	16	19	21	23	24	25	26	27	27	28	28
7				0	4	8	11	13	15	17	18	19	20	21	22	22	23
8					0	4	7	9	11	13	14	15	16	17	17	18	18
9						0	3	5	7	9	10	11	12	13	14	14	14
10							0	2	4	6	7	8	9	10	11	11	12
11								0	2	4	5	6	7	8	8	9	9
12									0	2	3	4	5	6	6	7	7
13										0	1	2	3	4	5	5	5
14											0	1	2	3	3	4	4
15												0	1	2	2	3	3
16													0	1	1	2	2
17														0	1	1	1
18															0	0	1
19																0	0
20																	0

[illegible]

Colwell phosphorus – low PBI (mg/kg). Red font indicates critical value of 95% maximum production.

		End (target) Colwell P (low PBI: 71–140)																					
		10	12	14	16	18	20	22	24	28	30	32	34	36	38	40	42	46	48	50	52	54	
Starting Colwell P (low PBI: 71–140)	10	0	8	15	20	25	28	31	34	36	37	39	40	41	41	42	42	43	43	43	44	44	
	12		0	7	12	17	20	23	26	28	29	31	32	32	33	34	34	35	35	35	35	36	
	14			0	5	10	14	16	19	21	23	24	25	26	27	27	28	28	28	29	29	29	
	16				0	4	8	11	13	15	17	18	19	20	21	22	22	23	23	23	23	24	
	18					0	4	7	9	11	13	14	15	116	17	17	18	18	18	19	19	19	
	20						0	3	5	7	9	10	11	12	13	14	14	14	15	15	15	15	
	22							0	2	4	6	7	8	9	10	11	11	12	12	12	12	12	
	24								0	2	4	5	6	7	8	8.2	9	9	9	10	10	10	
	28									0	2	3	4	5	6	6	7	7	7	8	8	8	
	30										0	1	2	3	4	5	5	5	6	6	6	6	
	32											0	1	2	3	3	4	4	4	5	5	5	
	34												0	1	2	2	3	3	3	4	4	4	
	36													0	1	1	2	2	3	3	3	3	
	38														0	1	1	1	2	2	2	2	
	40															0	0	1	1	1	2	3	
	42																0	0	1	1	1	1	
	46																	0	0	1	1	1	
	48																		0	0	0	1	
	50																			0	0	0	
	52																				0	0	
	54																					0	

Colwell phosphorus – medium PBI (mg/kg). Red font indicates critical value of 95% maximum production.

[illegible]

Colwell phosphorus – high PBI (mg/kg). **Red font** indicates critical value of 95% maximum production.

		End (target) Colwell P (high PBI: 281–840)																				
		15	18	21	27	30	33	36	42	45	48	51	54	60	63	66	69	75	78	81	84	90
Starting Colwell P (high PBI: 281–840)	15	0	8	15	20	25	28	31	34	36	37	39	40	41	41	42	42	43	43	43	44	44
	18		0	7	12	17	20	23	26	28	29	31	32	32	33	34	34	35	35	35	35	36
	21			0	5	10	14	16	19	21	23	24	25	26	27	27	28	28	28	29	29	29
	27				0	4	8	11	13	15	17	18	19	20	21	22	22	23	23	23	23	24
	30					0	4	7	9	11	13	14	15	16	17	17	18	18	18	19	19	19
	33						0	3	5	7	9	10	11	12	13	14	14	14	15	15	15	15
	36							0	2	4	6	7	8	9	10	11	11	12	12	12	12	12
	42								0	2	4	5	6	7	8	8	9	9	9	10	10	10
	45									0	2	3	4	5	6	6	7	7	7	8	8	8
	48										0	1	2	3	4	5	5	5	6	6	6	6
	51											0	1	2	3	3	4	4	4	5	5	5
	54												0	1	2	2	3	3	3	4	4	4
	60													0	1	1	2	2	3	3	3	3
	63														0	1	1	1	2	2	2	2
	66															0	0	1	1	1	2	3
	69																0	0	1	1	1	1
	75																	0	0	1	1	1
78																		0	0	0	1	
81																			0	0	0	
84																				0	0	
90																					0	

[illegible]

Colwell potassium – sandy loam (mg/kg). Red font indicates critical value of 95% maximum production.

		End (target) Colwell K (sandy loam)																				
		50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Starting Colwell K (sandy loam)	50	0	2	5	7	9	10	12	13	14	15	16	17	18	18	19	19	20	20	21	21	21
	55		0	2	4	6	8	9	10	12	13	13	14	15	16	16	17	17	18	18	18	19
	60			0	2	4	5	7	8	9	10	11	12	13	13	14	15	15	16	16	16	17
	65				0	2	3	5	6	7	8	9	10	11	11	12	13	13	14	14	14	15
	70					0	2	3	4	5	7	7	8	9	10	10	11	11	12	12	12	13
	75						0	1	3	4	5	6	7	7	8	9	9	10	10	10	10	11
	80							0	1	2	3	4	5	6	7	7	8	8	9	9	9	10
	85								0	1	2	3	4	5	5	6	6	7	7	8	8	8
	90									0	1	2	3	4	4	5	5	6	6	7	7	7
	95										0	1	2	2	3	4	4	5	5	6	6	6
	100											0	1	2	2	3	3	4	4	5	5	5
	105												0	1	1	2	3	3	3	4	4	4
	110													0	1	1	2	2	3	3	3	4
	115														0	1	1	2	2	2	3	3
	120															0	1	1	1	2	2	4
	125																0	0	1	1	2	2
	130																	0	0	1	1	1
135																		0	0	1	1	
140																			0	0	1	
145																				0	0	
150																					0	

[illegible]

Colwell potassium – clay loam (mg/kg). Red font indicates critical value of 95% maximum production.

		End (target) Colwell K (clay loam)																				
		50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Starting Colwell K (clay loam)	50	0	3	5	7	9	11	13	14	15	17	18	19	20	21	21	22	23	23	24	24	25
	55		0	2	5	7	8	10	11	13	14	15	16	17	18	19	19	20	21	21	22	22
	60			0	2	4	6	8	9	10	12	13	14	15	16	16	17	18	18	19	19	20
	65				0	2	4	5	7	8	10	11	12	13	13	14	15	16	16	17	17	18
	70					0	2	3	5	6	8	9	10	11	11	12	13	14	14	15	15	16
	75						0	2	3	4	6	7	8	9	10	10	11	12	12	12	13	13
	80							0	1	3	4	5	6	7	8	9	9	10	11	11	12	12
	85								0	1	3	4	5	6	6	7	8	9	9	10	10	11
	90									0	1	2	3	4	5	6	7	7	8	8	9	9
	95										0	1	2	3	4	5	5	6	7	7	8	8
	100											0	1	2	3	4	4	5	5	6	6	7
	105												0	1	2	3	3	4	4	5	5	6
	110													0	1	2	2	3	4	4	5	5
	115														0	1	1	2	3	3	4	4
	120															0	1	1	2	2	3	6
	125																0	1	1	2	2	3
	130																	0	1	1	2	2
135																		0	1	1	1	
140																			0	0	1	
145																				0	0	
150																					0	

KCl sulphur (mg/kg). **Red font** indicates critical value of 95% maximum production.

	End (target) KCl S													
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Starting KCl S	2	0	15	25	32	36	39	42	43	44	45	45	46	46
	3		0	10	17	21	25	27	28	29	30	30	31	31
	4			0	7	11	15	17	18	19	20	20	21	21
	5				0	5	8	10	11	12	13	13	14	14
	6					0	3	5	7	8	8	9	9	9
	7						0	2	4	5	5	6	6	6
	8							0	1	2	3	4	4	4
	9								0	1	2	2	3	3
	10									0	1	1	2	2
	11										0	0	1	1
	12											0	0	1
	13												0	0
	14													0
	15													0