

Planning Stock Density Treatments as part of your Holistic Grazing Planning process

To calculate the area (in hectares) a mob of different sizes will graze to achieve a desired 'Animal Impact' treatment rate

Step 1 Refer to Table 1 to calculate the mass of the mob
 - Example 400 cows (blue column) each of 500kgs liveweight = 200,000kgs

Step 2 Refer to Table 2. Locate the mass of the mob.
 Select the Desired Treatment Rate and read off the area the mob should graze to deliver the treatment
 - Example For a mob mass of 200,000 kgs and a Desired Treatment of 100,000 kgs per hectare, the mob should graze 2.00 hectares

Table 1: Mass in a mob at various head count & liveweight combinations

No. Head in the mob	Average liveweight (Kgs) per head					
	50	100	200	300	400	500
50	2,500	5,000	10,000	15,000	20,000	25,000
100	5,000	10,000	20,000	30,000	40,000	50,000
150	7,500	15,000	30,000	45,000	60,000	75,000
200	10,000	20,000	40,000	60,000	80,000	100,000
250	12,500	25,000	50,000	75,000	100,000	125,000
300	15,000	30,000	60,000	90,000	120,000	150,000
350	17,500	35,000	70,000	105,000	140,000	175,000
400	20,000	40,000	80,000	120,000	160,000	200,000
450	22,500	45,000	90,000	135,000	180,000	225,000
500	25,000	50,000	100,000	150,000	200,000	250,000
550	27,500	55,000	110,000	165,000	220,000	275,000
600	30,000	60,000	120,000	180,000	240,000	300,000
650	32,500	65,000	130,000	195,000	260,000	325,000
700	35,000	70,000	140,000	210,000	280,000	350,000
750	37,500	75,000	150,000	225,000	300,000	375,000
800	40,000	80,000	160,000	240,000	320,000	400,000
850	42,500	85,000	170,000	255,000	340,000	425,000
900	45,000	90,000	180,000	270,000	360,000	450,000
950	47,500	95,000	190,000	285,000	380,000	475,000
1,000	50,000	100,000	200,000	300,000	400,000	500,000
1,050	52,500	105,000	210,000	315,000	420,000	525,000
1,100	55,000	110,000	220,000	330,000	440,000	550,000
1,150	57,500	115,000	230,000	345,000	460,000	575,000
1,200	60,000	120,000	240,000	360,000	480,000	600,000
1,250	62,500	125,000	250,000	375,000	500,000	625,000
1,300	65,000	130,000	260,000	390,000	520,000	650,000
1,350	67,500	135,000	270,000	405,000	540,000	675,000
1,400	70,000	140,000	280,000	420,000	560,000	700,000
1,450	72,500	145,000	290,000	435,000	580,000	725,000
1,500	75,000	150,000	300,000	450,000	600,000	750,000
1,550	77,500	155,000	310,000	465,000	620,000	775,000
1,600	80,000	160,000	320,000	480,000	640,000	800,000
1,650	82,500	165,000	330,000	495,000	660,000	825,000
1,700	85,000	170,000	340,000	510,000	680,000	850,000
1,750	87,500	175,000	350,000	525,000	700,000	875,000
1,800	90,000	180,000	360,000	540,000	720,000	900,000
1,850	92,500	185,000	370,000	555,000	740,000	925,000
1,900	95,000	190,000	380,000	570,000	760,000	950,000
1,950	97,500	195,000	390,000	585,000	780,000	975,000
2,000	100,000	200,000	400,000	600,000	800,000	1,000,000

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Table 2: Area to graze (in hectares) to achieve required treatment rate

Mass (kgs) of the mob	Desired treatment rate - in kgs liveweight per hectare							
	10,000	25,000	50,000	100,000	200,000	300,000	400,000	500,000
10,000	1.00	0.40	0.20	0.10	0.05	0.03	0.03	0.02
20,000	2.00	0.80	0.40	0.20	0.10	0.07	0.05	0.04
30,000	3.00	1.20	0.60	0.30	0.15	0.10	0.08	0.06
40,000	4.00	1.60	0.80	0.40	0.20	0.13	0.10	0.08
50,000	5.00	2.00	1.00	0.50	0.25	0.17	0.13	0.10
60,000	6.00	2.40	1.20	0.60	0.30	0.20	0.15	0.12
70,000	7.00	2.80	1.40	0.70	0.35	0.23	0.18	0.14
80,000	8.00	3.20	1.60	0.80	0.40	0.27	0.20	0.16
90,000	9.00	3.60	1.80	0.90	0.45	0.30	0.23	0.18
100,000	10.00	4.00	2.00	1.00	0.50	0.33	0.25	0.20
125,000	12.50	5.00	2.50	1.25	0.63	0.42	0.31	0.25
150,000	15.00	6.00	3.00	1.50	0.75	0.50	0.38	0.30
175,000	17.50	7.00	3.50	1.75	0.88	0.58	0.44	0.35
200,000	20.00	8.00	4.00	2.00	1.00	0.67	0.50	0.40
225,000	22.50	9.00	4.50	2.25	1.13	0.75	0.56	0.45
250,000	25.00	10.00	5.00	2.50	1.25	0.83	0.63	0.50
275,000	27.50	11.00	5.50	2.75	1.38	0.92	0.69	0.55
300,000	30.00	12.00	6.00	3.00	1.50	1.00	0.75	0.60
325,000	32.50	13.00	6.50	3.25	1.63	1.08	0.81	0.65
350,000	35.00	14.00	7.00	3.50	1.75	1.17	0.88	0.70
375,000	37.50	15.00	7.50	3.75	1.88	1.25	0.94	0.75
400,000	40.00	16.00	8.00	4.00	2.00	1.33	1.00	0.80
425,000	42.50	17.00	8.50	4.25	2.13	1.42	1.06	0.85
450,000	45.00	18.00	9.00	4.50	2.25	1.50	1.13	0.90
475,000	47.50	19.00	9.50	4.75	2.38	1.58	1.19	0.95
500,000	50.00	20.00	10.00	5.00	2.50	1.67	1.25	1.00
525,000	52.50	21.00	10.50	5.25	2.63	1.75	1.31	1.05
550,000	55.00	22.00	11.00	5.50	2.75	1.83	1.38	1.10
575,000	57.50	23.00	11.50	5.75	2.88	1.92	1.44	1.15
600,000	60.00	24.00	12.00	6.00	3.00	2.00	1.50	1.20
625,000	62.50	25.00	12.50	6.25	3.13	2.08	1.56	1.25
650,000	65.00	26.00	13.00	6.50	3.25	2.17	1.63	1.30
675,000	67.50	27.00	13.50	6.75	3.38	2.25	1.69	1.35
700,000	70.00	28.00	14.00	7.00	3.50	2.33	1.75	1.40
725,000	72.50	29.00	14.50	7.25	3.63	2.42	1.81	1.45
750,000	75.00	30.00	15.00	7.50	3.75	2.50	1.88	1.50
775,000	77.50	31.00	15.50	7.75	3.88	2.58	1.94	1.55
800,000	80.00	32.00	16.00	8.00	4.00	2.67	2.00	1.60
825,000	82.50	33.00	16.50	8.25	4.13	2.75	2.06	1.65
850,000	85.00	34.00	17.00	8.50	4.25	2.83	2.13	1.70
875,000	87.50	35.00	17.50	8.75	4.38	2.92	2.19	1.75
900,000	90.00	36.00	18.00	9.00	4.50	3.00	2.25	1.80
925,000	92.50	37.00	18.50	9.25	4.63	3.08	2.31	1.85
950,000	95.00	38.00	19.00	9.50	4.75	3.17	2.38	1.90
975,000	97.50	39.00	19.50	9.75	4.88	3.25	2.44	1.95
1,000,000	100.00	40.00	20.00	10.00	5.00	3.33	2.50	2.00