

Sheet1

Time in KNON	ABRM's pop. (day 1/yr)	Growth Rate- 3%	ABRM's pop. (day 365/yr)	Required Livestock (pounds)	Animal Units (Aus)	sq/mi required per month
5 years	1,135.7	34.1	1,169.8	584,885.5	584.9	1.8
6 years	1,169.8	35.1	1,204.9	602,432.1	602.4	1.9
7 years	1,204.9	36.1	1,241.0	620,505.0	620.5	1.9
8 years	1,241.0	37.2	1,278.2	639,120.2	639.1	2.0
9 years	1,278.2	38.3	1,316.6	658,293.8	658.3	2.1
10 years	1,316.6	39.5	1,356.1	678,042.6	678.0	2.1
11 years	1,356.1	40.7	1,396.8	698,383.9	698.4	2.2
12 years	1,396.8	41.9	1,438.7	719,335.4	719.3	2.2
13 years	1,438.7	43.2	1,481.8	740,915.5	740.9	2.3
14 years	1,481.8	44.5	1,526.3	763,142.9	763.1	2.4
15 years	1,526.3	45.8	1,572.1	786,037.2	786.0	2.5
16 years	1,572.1	47.2	1,619.2	809,618.3	809.6	2.5
17 years	1,619.2	48.6	1,667.8	833,906.9	833.9	2.6
18 years	1,667.8	50.0	1,717.8	858,924.1	858.9	2.7
19 years	1,717.8	51.5	1,769.4	884,691.8	884.7	2.8
20 years	1,769.4	53.1	1,822.5	911,232.6	911.2	2.8
21 years	1,822.5	54.7	1,877.1	938,569.5	938.6	2.9
22 years	1,877.1	56.3	1,933.5	966,726.6	966.7	3.0
23 years	1,933.5	58.0	1,991.5	995,728.4	995.7	3.1
24 years	1,991.5	59.7	2,051.2	1,025,600.3	1,025.6	3.2
25 years	2,051.2	61.5	2,112.7	1,056,368.3	1,056.4	3.3
26 years	2,112.7	63.4	2,176.1	1,088,059.3	1,088.1	3.4
27 years	2,176.1	65.3	2,241.4	1,120,701.1	1,120.7	3.5
28 years	2,241.4	67.2	2,308.6	1,154,322.1	1,154.3	3.6
29 years	2,308.6	69.3	2,377.9	1,188,951.8	1,189.0	3.7
30 years	2,377.9	71.3	2,449.2	1,224,620.4	1,224.6	3.8
31 years	2,449.2	73.5	2,522.7	1,261,359.0	1,261.4	3.9
32 years	2,522.7	75.7	2,598.4	1,299,199.7	1,299.2	4.1
33 years	2,598.4	78.0	2,676.4	1,338,175.7	1,338.2	4.2
34 years	2,676.4	80.3	2,756.6	1,378,321.0	1,378.3	4.3
35 years	2,756.6	82.7	2,839.3	1,419,670.6	1,419.7	4.4
36 years	2,839.3	85.2	2,924.5	1,462,260.7	1,462.3	4.6
37 years	2,924.5	87.7	3,012.3	1,506,128.6	1,506.1	4.7
38 years	3,012.3	90.4	3,102.6	1,551,312.4	1,551.3	4.8
39 years	3,102.6	93.1	3,195.7	1,597,851.8	1,597.9	5.0
40 years	3,195.7	95.9	3,291.6	1,645,787.3	1,645.8	5.1
41 years	3,291.6	98.7	3,390.3	1,695,161.0	1,695.2	5.3
42 years	3,390.3	101.7	3,492.0	1,746,015.8	1,746.0	5.5
43 years	3,492.0	104.8	3,596.8	1,798,396.3	1,798.4	5.6
44 years	3,596.8	107.9	3,704.7	1,852,348.2	1,852.3	5.8
45 years	3,704.7	111.1	3,815.8	1,907,918.6	1,907.9	6.0
46 years	3,815.8	114.5	3,930.3	1,965,156.2	1,965.2	6.1
47 years	3,930.3	117.9	4,048.2	2,024,110.8	2,024.1	6.3

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48 years	4,048.2	121.4	4,169.7	2,084,834.2	2,084.8	6.5
49 years	4,169.7	125.1	4,294.8	2,147,379.2	2,147.4	6.7
50 years	4,294.8	128.8	4,423.6	2,211,800.6	2,211.8	6.9
51 years	4,423.6	132.7	4,556.3	2,278,154.6	2,278.2	7.1
52 years	4,556.3	136.7	4,693.0	2,346,499.2	2,346.5	7.3
53 years	4,693.0	140.8	4,833.8	2,416,894.2	2,416.9	7.6
54 years	4,833.8	145.0	4,978.8	2,489,401.0	2,489.4	7.8
55 years	4,978.8	149.4	5,128.2	2,564,083.1	2,564.1	8.0
56 years	5,128.2	153.8	5,282.0	2,641,005.6	2,641.0	8.3
57 years	5,282.0	158.5	5,440.5	2,720,235.7	2,720.2	8.5
58 years	5,440.5	163.2	5,603.7	2,801,842.8	2,801.8	8.8
59 years	5,603.7	168.1	5,771.8	2,885,898.1	2,885.9	9.0
60 years	5,771.8	173.2	5,945.0	2,972,475.0	2,972.5	9.3
61 years	5,945.0	178.3	6,123.3	3,061,649.3	3,061.6	9.6
62 years	6,123.3	183.7	6,307.0	3,153,498.7	3,153.5	9.9
63 years	6,307.0	189.2	6,496.2	3,248,103.7	3,248.1	10.2
64 years	6,496.2	194.9	6,691.1	3,345,546.8	3,345.5	10.5
65 years	6,691.1	200.7	6,891.8	3,445,913.2	3,445.9	10.8
66 years	6,891.8	206.8	7,098.6	3,549,290.6	3,549.3	11.1
67 years	7,098.6	213.0	7,311.5	3,655,769.3	3,655.8	11.4
68 years	7,311.5	219.3	7,530.9	3,765,442.4	3,765.4	11.8
69 years	7,530.9	225.9	7,756.8	3,878,405.7	3,878.4	12.1
70 years	7,756.8	232.7	7,989.5	3,994,757.9	3,994.8	12.5
71 years	7,989.5	239.7	8,229.2	4,114,600.6	4,114.6	12.9
72 years	8,229.2	246.9	8,476.1	4,238,038.6	4,238.0	13.2
73 years	8,476.1	254.3	8,730.4	4,365,179.8	4,365.2	13.6
74 years	8,730.4	261.9	8,992.3	4,496,135.2	4,496.1	14.1
75 years	8,992.3	269.8	9,262.0	4,631,019.2	4,631.0	14.5
76 years	9,262.0	277.9	9,539.9	4,769,949.8	4,769.9	14.9
77 years	9,539.9	286.2	9,826.1	4,913,048.3	4,913.0	15.4
78 years	9,826.1	294.8	10,120.9	5,060,439.7	5,060.4	15.8
79 years	10,120.9	303.6	10,424.5	5,212,252.9	5,212.3	16.3
80 years	10,424.5	312.7	10,737.2	5,368,620.5	5,368.6	16.8
81 years	10,737.2	322.1	11,059.4	5,529,679.1	5,529.7	17.3
82 years	11,059.4	331.8	11,391.1	5,695,569.5	5,695.6	17.8
83 years	11,391.1	341.7	11,732.9	5,866,436.6	5,866.4	18.3
84 years	11,732.9	352.0	12,084.9	6,042,429.7	6,042.4	18.9
85 years	12,084.9	362.5	12,447.4	6,223,702.6	6,223.7	19.4
86 years	12,447.4	373.4	12,820.8	6,410,413.7	6,410.4	20.0
87 years	12,820.8	384.6	13,205.5	6,602,726.1	6,602.7	20.6
88 years	13,205.5	396.2	13,601.6	6,800,807.9	6,800.8	21.3
89 years	13,601.6	408.0	14,009.7	7,004,832.1	7,004.8	21.9
90 years	14,009.7	420.3	14,430.0	7,214,977.1	7,215.0	22.5
91 years	14,430.0	432.9	14,862.9	7,431,426.4	7,431.4	23.2

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92 years	14,862.9	445.9	15,308.7	7,654,369.2	7,654.4	23.9
93 years	15,308.7	459.3	15,768.0	7,884,000.2	7,884.0	24.6
94 years	15,768.0	473.0	16,241.0	8,120,520.2	8,120.5	25.4
95 years	16,241.0	487.2	16,728.3	8,364,135.9	8,364.1	26.1
96 years	16,728.3	501.8	17,230.1	8,615,059.9	8,615.1	26.9
97 years	17,230.1	516.9	17,747.0	8,873,511.7	8,873.5	27.7
98 years	17,747.0	532.4	18,279.4	9,139,717.1	9,139.7	28.6
99 years	18,279.4	548.4	18,827.8	9,413,908.6	9,413.9	29.4
100 years	18,827.8	564.8	19,392.7	9,696,325.9	9,696.3	30.3
101 years	19,392.7	581.8	19,974.4	9,987,215.6	9,987.2	31.2
102 years	19,974.4	599.2	20,573.7	10,286,832.1	10,286.8	32.1
103 years	20,573.7	617.2	21,190.9	10,595,437.1	10,595.4	33.1
104 years	21,190.9	635.7	21,826.6	10,913,300.2	10,913.3	34.1
105 years	21,826.6	654.8	22,481.4	11,240,699.2	11,240.7	35.1
106 years	22,481.4	674.4	23,155.8	11,577,920.2	11,577.9	36.2
107 years	23,155.8	694.7	23,850.5	11,925,257.8	11,925.3	37.3
108 years	23,850.5	715.5	24,566.0	12,283,015.5	12,283.0	38.4
109 years	24,566.0	737.0	25,303.0	12,651,506.0	12,651.5	39.5
110 years	25,303.0	759.1	26,062.1	13,031,051.1	13,031.1	40.7
111 years	26,062.1	781.9	26,844.0	13,421,982.7	13,422.0	41.9
112 years	26,844.0	805.3	27,649.3	13,824,642.1	13,824.6	43.2
113 years	27,649.3	829.5	28,478.8	14,239,381.4	14,239.4	44.5
114 years	28,478.8	854.4	29,333.1	14,666,562.9	14,666.6	45.8
115 years	29,333.1	880.0	30,213.1	15,106,559.7	15,106.6	47.2
116 years	30,213.1	906.4	31,119.5	15,559,756.5	15,559.8	48.6
117 years	31,119.5	933.6	32,053.1	16,026,549.2	16,026.5	50.1
118 years	32,053.1	961.6	33,014.7	16,507,345.7	16,507.3	51.6
119 years	33,014.7	990.4	34,005.1	17,002,566.1	17,002.6	53.1
120 years	34,005.1	1,020.2	35,025.3	17,512,643.1	17,512.6	54.7
121 years	35,025.3	1,050.8	36,076.0	18,038,022.3	18,038.0	56.4
122 years	36,076.0	1,082.3	37,158.3	18,579,163.0	18,579.2	58.1
123 years	37,158.3	1,114.7	38,273.1	19,136,537.9	19,136.5	59.8
124 years	38,273.1	1,148.2	39,421.3	19,710,634.0	19,710.6	61.6
125 years	39,421.3	1,182.6	40,603.9	20,301,953.1	20,302.0	63.4
126 years	40,603.9	1,218.1	41,822.0	20,911,011.7	20,911.0	65.3
127 years	41,822.0	1,254.7	43,076.7	21,538,342.0	21,538.3	67.3
128 years	43,076.7	1,292.3	44,369.0	22,184,492.3	22,184.5	69.3
129 years	44,369.0	1,331.1	45,700.1	22,850,027.0	22,850.0	71.4
130 years	45,700.1	1,371.0	47,071.1	23,535,527.8	23,535.5	73.5
131 years	47,071.1	1,412.1	48,483.2	24,241,593.7	24,241.6	75.8
132 years	48,483.2	1,454.5	49,937.7	24,968,841.5	24,968.8	78.0
133 years	49,937.7	1,498.1	51,435.8	25,717,906.7	25,717.9	80.4
134 years	51,435.8	1,543.1	52,978.9	26,489,443.9	26,489.4	82.8
135 years	52,978.9	1,589.4	54,568.3	27,284,127.3	27,284.1	85.3

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136 years	54,568.3	1,637.0	56,205.3	28,102,651.1	28,102.7	87.8
137 years	56,205.3	1,686.2	57,891.5	28,945,730.6	28,945.7	90.5
138 years	57,891.5	1,736.7	59,628.2	29,814,102.5	29,814.1	93.2
139 years	59,628.2	1,788.8	61,417.1	30,708,525.6	30,708.5	96.0
140 years	61,417.1	1,842.5	63,259.6	31,629,781.4	31,629.8	98.8
141 years	63,259.6	1,897.8	65,157.3	32,578,674.8	32,578.7	101.8
142 years	65,157.3	1,954.7	67,112.1	33,556,035.1	33,556.0	104.9
143 years	67,112.1	2,013.4	69,125.4	34,562,716.1	34,562.7	108.0
144 years	69,125.4	2,073.8	71,199.2	35,599,597.6	35,599.6	111.2
145 years	71,199.2	2,136.0	73,335.2	36,667,585.5	36,667.6	114.6
146 years	73,335.2	2,200.1	75,535.2	37,767,613.1	37,767.6	118.0
147 years	75,535.2	2,266.1	77,801.3	38,900,641.5	38,900.6	121.6
148 years	77,801.3	2,334.0	80,135.3	40,067,660.7	40,067.7	125.2
149 years	80,135.3	2,404.1	82,539.4	41,269,690.5	41,269.7	129.0
150 years	82,539.4	2,476.2	85,015.6	42,507,781.3	42,507.8	132.8
151 years	85,015.6	2,550.5	87,566.0	43,783,014.7	43,783.0	136.8
152 years	87,566.0	2,627.0	90,193.0	45,096,505.1	45,096.5	140.9
153 years	90,193.0	2,705.8	92,898.8	46,449,400.3	46,449.4	145.2
154 years	92,898.8	2,787.0	95,685.8	47,842,882.3	47,842.9	149.5
155 years	95,685.8	2,870.6	98,556.3	49,278,168.8	49,278.2	154.0
156 years	98,556.3	2,956.7	101,513.0	50,756,513.8	50,756.5	158.6
157 years	101,513.0	3,045.4	104,558.4	52,279,209.2	52,279.2	163.4
158 years	104,558.4	3,136.8	107,695.2	53,847,585.5	53,847.6	168.3
159 years	107,695.2	3,230.9	110,926.0	55,463,013.1	55,463.0	173.3
160 years	110,926.0	3,327.8	114,253.8	57,126,903.5	57,126.9	178.5
161 years	114,253.8	3,427.6	117,681.4	58,840,710.6	58,840.7	183.9
162 years	117,681.4	3,530.4	121,211.9	60,605,931.9	60,605.9	189.4
163 years	121,211.9	3,636.4	124,848.2	62,424,109.9	62,424.1	195.1
164 years	124,848.2	3,745.4	128,593.7	64,296,833.2	64,296.8	200.9
165 years	128,593.7	3,857.8	132,451.5	66,225,738.2	66,225.7	207.0
166 years	132,451.5	3,973.5	136,425.0	68,212,510.3	68,212.5	213.2
167 years	136,425.0	4,092.8	140,517.8	70,258,885.6	70,258.9	219.6
168 years	140,517.8	4,215.5	144,733.3	72,366,652.2	72,366.7	226.1
169 years	144,733.3	4,342.0	149,075.3	74,537,651.7	74,537.7	232.9
170 years	149,075.3	4,472.3	153,547.6	76,773,781.3	76,773.8	239.9
171 years	153,547.6	4,606.4	158,154.0	79,076,994.7	79,077.0	247.1
172 years	158,154.0	4,744.6	162,898.6	81,449,304.6	81,449.3	254.5
173 years	162,898.6	4,887.0	167,785.6	83,892,783.7	83,892.8	262.2
174 years	167,785.6	5,033.6	172,819.1	86,409,567.2	86,409.6	270.0
175 years	172,819.1	5,184.6	178,003.7	89,001,854.2	89,001.9	278.1
176 years	178,003.7	5,340.1	183,343.8	91,671,909.9	91,671.9	286.5
177 years	183,343.8	5,500.3	188,844.1	94,422,067.2	94,422.1	295.1
178 years	188,844.1	5,665.3	194,509.5	97,254,729.2	97,254.7	303.9
179 years	194,509.5	5,835.3	200,344.7	100,172,371.1	100,172.4	313.0

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180 years	200,344.7	6,010.3	206,355.1	103,177,542.2	103,177.5	322.4
181 years	206,355.1	6,190.7	212,545.7	106,272,868.4	106,272.9	332.1
182 years	212,545.7	6,376.4	218,922.1	109,461,054.5	109,461.1	342.1
183 years	218,922.1	6,567.7	225,489.8	112,744,886.1	112,744.9	352.3
184 years	225,489.8	6,764.7	232,254.5	116,127,232.7	116,127.2	362.9
185 years	232,254.5	6,967.6	239,222.1	119,611,049.7	119,611.0	373.8
186 years	239,222.1	7,176.7	246,398.8	123,199,381.2	123,199.4	385.0
187 years	246,398.8	7,392.0	253,790.7	126,895,362.6	126,895.4	396.5
188 years	253,790.7	7,613.7	261,404.4	130,702,223.5	130,702.2	408.4
189 years	261,404.4	7,842.1	269,246.6	134,623,290.2	134,623.3	420.7
190 years	269,246.6	8,077.4	277,324.0	138,661,988.9	138,662.0	433.3
191 years	277,324.0	8,319.7	285,643.7	142,821,848.6	142,821.8	446.3
192 years	285,643.7	8,569.3	294,213.0	147,106,504.0	147,106.5	459.7
193 years	294,213.0	8,826.4	303,039.4	151,519,699.2	151,519.7	473.5
194 years	303,039.4	9,091.2	312,130.6	156,065,290.1	156,065.3	487.7
195 years	312,130.6	9,363.9	321,494.5	160,747,248.8	160,747.2	502.3
196 years	321,494.5	9,644.8	331,139.3	165,569,666.3	165,569.7	517.4
197 years	331,139.3	9,934.2	341,073.5	170,536,756.3	170,536.8	532.9
198 years	341,073.5	10,232.2	351,305.7	175,652,859.0	175,652.9	548.9
199 years	351,305.7	10,539.2	361,844.9	180,922,444.8	180,922.4	565.4
200 years	361,844.9	10,855.3	372,700.2	186,350,118.1	186,350.1	582.3
201 years	372,700.2	11,181.0	383,881.2	191,940,621.6	191,940.6	599.8
202 years	383,881.2	11,516.4	395,397.7	197,698,840.3	197,698.8	617.8
203 years	395,397.7	11,861.9	407,259.6	203,629,805.5	203,629.8	636.3
204 years	407,259.6	12,217.8	419,477.4	209,738,699.7	209,738.7	655.4
205 years	419,477.4	12,584.3	432,061.7	216,030,860.7	216,030.9	675.1
206 years	432,061.7	12,961.9	445,023.6	222,511,786.5	222,511.8	695.3
207 years	445,023.6	13,350.7	458,374.3	229,187,140.1	229,187.1	716.2
208 years	458,374.3	13,751.2	472,125.5	236,062,754.3	236,062.8	737.7
209 years	472,125.5	14,163.8	486,289.3	243,144,636.9	243,144.6	759.8
210 years	486,289.3	14,588.7	500,878.0	250,438,976.0	250,439.0	782.6
211 years	500,878.0	15,026.3	515,904.3	257,952,145.3	257,952.1	806.1
212 years	515,904.3	15,477.1	531,381.4	265,690,709.7	265,690.7	830.3
213 years	531,381.4	15,941.4	547,322.9	273,661,430.9	273,661.4	855.2
214 years	547,322.9	16,419.7	563,742.5	281,871,273.9	281,871.3	880.8
215 years	563,742.5	16,912.3	580,654.8	290,327,412.1	290,327.4	907.3