



2020 Garden Ridge Deer Survey Results

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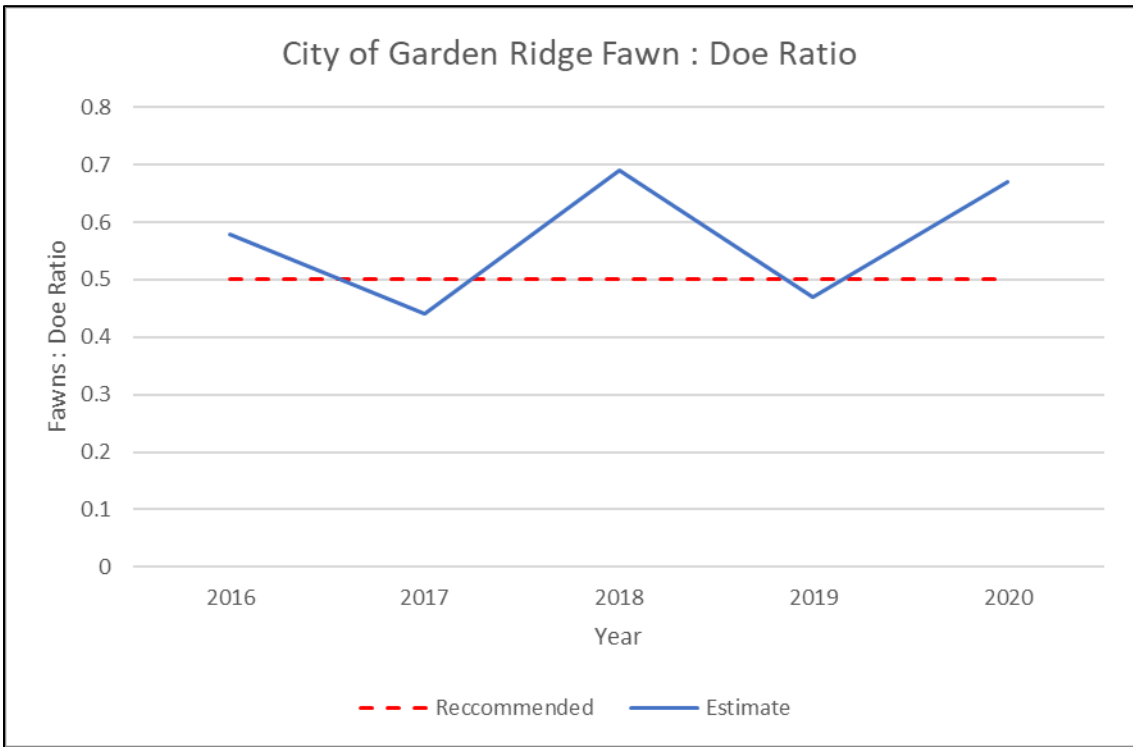
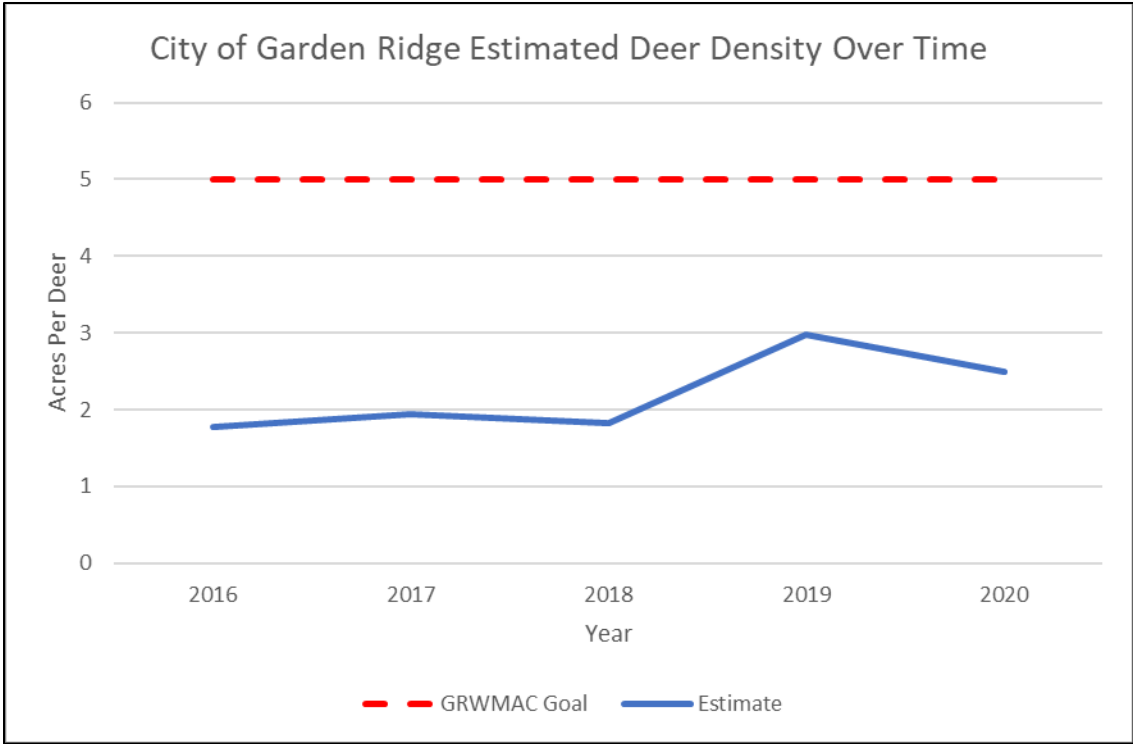
2020 Survey totals and summary:

2020 City of Garden Ridge Deer Survey Population Summary										
Survey Route/Pasture	Date	Deer Observed					Total	Acres Sampled	Acres Per Deer	Deer Per 1,000 Ac.
		Bucks	Does	Fawns	Undet					
Survey Route Day 1	8/20/20	1	29	25	1	56	198	3.54	282.5	
Survey Route Day 2	8/31/20	6	45	22		73	198	2.71	369	
Survey Route Day 3	9/11/20	9	58	42		109	198	1.82	549.5	
Survey Totals		16	132	89	1	238	594	2.5	400	

Survey Results				
Estimates		Composition		Estimated Population
Acres/Deer:	2.50	Bucks:	6.80%	Bucks: 75
Does/Buck:	8.25	Does:	55.70%	Does: 620
Fawns/Doe:	0.67	Fawns:	37.60%	Fawns: 419
Total:				1114

Biologist Comments:

- The population density estimate has slightly increased from 2.98 acres per deer to 2.50 acres per deer over the last year. The estimated density is still lower than 2018 and earlier (See attached graph). Despite this, the estimated density is still well short of the wildlife management plan goal of 5 acers per deer.
- Survey results indicate a high fawn recruitment this year (67% of does have fawns whereas the 5-year average is 57%).
- Survey results estimate 419 fawns in Garden Ridge this year. A high fawn recruitment will result in a larger rate of increase on the population going into next fall.
- White-tail deer have fawns at an approximate 50/50 ratio of males to females, thus we can estimate that there are about 209 doe fawns this year.
- Based on data and population analysis, at least 300 deer would need to be removed from the population in order to avoid any decrease or increase in the estimated deer population going into next fall. **(This is not a recommendation, just additional population information for the committee)**
- See the table on page 3 for more information on the possible impact of potential deer removal.



WTD Population Estimates Based on Potential Removal of Deer				
Potential Deer Removed	Spring Density '21 Estimate	Fall '21 Density Estimate	Spring '21 Est. # Deer	Fall '21 Est. # Deer
0	2.5	1.8	1114	1587
50	2.6	1.8	1064	1508
100	2.7	1.9	1015	1431
150	2.9	2.1	965	1353
200	3.1	2.2	916	1276
250	3.2	2.3	860	1188
300	3.4	2.5	816	1119
350	3.7	2.7	761	1032
400	3.9	2.9	717	963

