

Table 1. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters from 6 October to 16 November 2012 statewide, east (EBR) and west (WBR) of the Blue Ridge Mountains, and on private and public lands in Virginia.

Animal	Total	<u>Animals Seen/100 hrs. ± SE</u>				
	Seen	State	EBR	WBR	Private Land	Public Land
Deer (antlered)	2,942	14.62 ± 0.79	16.44 ± 1.02	10.39 ± 0.95	15.72 ± 0.90	9.21 ± 1.09
Deer (doe)	5,947	29.56 ± 1.66	30.39 ± 2.11	27.61 ± 2.51	31.86 ± 1.91	18.16 ± 2.08
Deer (fawn)	2,526	12.55 ± 0.98	12.37 ± 1.15	12.99 ± 1.84	13.77 ± 1.13	6.53 ± 1.02
Deer (unknown)	2,095	10.41 ± 1.00	10.33 ± 1.33	10.60 ± 1.29	11.11 ± 1.17	6.97 ± 0.97
Gray Squirrel	21,601	107.35 ± 4.13	111.44 ± 5.05	97.83 ± 7.29	111.26 ± 4.63	88.04 ± 7.11
Fox Squirrel	1,162	5.78 ± 0.89	0.77 ± 0.17	17.44 ± 2.52	5.83 ± 1.02	5.49 ± 1.42
Turkey (bearded)	760	3.78 ± 0.40	3.65 ± 0.47	4.07 ± 0.75	3.88 ± 0.46	3.28 ± 0.66
Turkey (no beard)	2,604	12.94 ± 1.16	12.54 ± 1.29	13.88 ± 2.44	13.03 ± 1.18	12.52 ± 3.42
Turkey (unknown)	2,278	11.32 ± 1.24	9.48 ± 1.27	15.62 ± 2.82	11.50 ± 1.35	10.45 ± 2.82
Turkey (total)	5,642	28.04 ± 1.83	25.67 ± 1.92	33.57 ± 4.11	28.40 ± 1.92	26.25 ± 4.86
Grouse	84	0.42 ± 0.14	0.03 ± 0.02	1.32 ± 0.45	0.23 ± 0.06	1.36 ± 0.71
Bear (adult)	108	0.54 ± 0.09	0.20 ± 0.05	1.32 ± 0.25	0.45 ± 0.09	0.97 ± 0.29
Bear (cub)	45	0.22 ± 0.05	0.08 ± 0.03	0.56 ± 0.15	0.19 ± 0.05	0.38 ± 0.17
Bear (total)	153	0.76 ± 0.12	0.28 ± 0.07	1.89 ± 0.33	0.64 ± 0.12	1.36 ± 0.38
Red Fox	146	0.73 ± 0.12	0.92 ± 0.17	0.26 ± 0.08	0.80 ± 0.14	0.35 ± 0.11
Gray Fox	74	0.37 ± 0.06	0.40 ± 0.07	0.30 ± 0.11	0.36 ± 0.07	0.41 ± 0.15
Coyote	122	0.61 ± 0.07	0.50 ± 0.08	0.86 ± 0.16	0.60 ± 0.08	0.62 ± 0.16
Bobcat	45	0.22 ± 0.05	0.24 ± 0.07	0.18 ± 0.06	0.26 ± 0.06	0.06 ± 0.04
Raccoon	304	1.51 ± 0.14	1.56 ± 0.17	1.41 ± 0.27	1.67 ± 0.16	0.71 ± 0.27
Opossum	51	0.25 ± 0.04	0.28 ± 0.06	0.18 ± 0.06	0.25 ± 0.05	0.27 ± 0.12
Striped Skunk	46	0.23 ± 0.04	0.16 ± 0.04	0.40 ± 0.10	0.21 ± 0.04	0.32 ± 0.13
Elk	0	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Feral Hog	0	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.03 ± 0.00	0.00 ± 0.00
Dog	259	1.29 ± 0.26	1.26 ± 0.16	1.36 ± 0.78	1.36 ± 0.30	0.92 ± 0.33
House Cat	158	0.79 ± 0.16	0.65 ± 0.12	1.11 ± 0.47	0.84 ± 0.19	0.53 ± 0.25
Hunter	923	4.59 ± 0.62	3.70 ± 0.70	6.65 ± 1.13	4.03 ± 0.65	7.35 ± 1.60
Total Hunters		381	274	133	351	99
Total Hunts		4,512	3,224	1,288	3,840	672
Total Hours		20,121	14,076	6,045	16,734	3,387
Avg. Hrs. Per Hunt		4.46 ± 0.04	4.37 ± 0.04	4.69 ± 0.07	4.36 ± 0.04	5.04 ± 0.10

Table 2. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters from 6 October to 16 November 2012 on private and public lands east (EBR) and west (WBR) of the Blue Ridge Mountains in Virginia.

Animal	<u>Animals Seen/100 hrs. ± SE</u>			
	EBR		WBR	
	Private Land	Public Land	Private Land	Public Land
Deer (antlered)	17.25 ± 1.12	10.70 ± 1.78	11.42 ± 1.19	7.62 ± 1.30
Deer (doe)	31.71 ± 2.32	21.06 ± 3.71	32.28 ± 3.21	15.07 ± 2.01
Deer (fawn)	13.13 ± 1.28	6.98 ± 1.63	15.57 ± 2.44	6.04 ± 1.20
Deer (unknown)	10.95 ± 1.50	5.95 ± 1.04	11.55 ± 1.47	8.05 ± 1.65
Gray Squirrel	113.90 ± 5.45	94.13 ± 11.89	103.89 ± 9.07	81.55 ± 7.63
Fox Squirrel	0.82 ± 0.19	0.40 ± 0.26	19.86 ± 3.31	10.92 ± 2.55
Turkey (bearded)	3.81 ± 0.53	2.52 ± 0.76	4.06 ± 0.90	4.09 ± 1.09
Turkey (no beard)	12.88 ± 1.40	10.13 ± 3.14	13.44 ± 2.16	15.07 ± 6.23
Turkey (unknown)	9.91 ± 1.42	6.41 ± 2.18	15.94 ± 3.31	14.76 ± 4.74
Turkey (total)	26.60 ± 2.11	19.06 ± 4.12	33.44 ± 4.35	33.91 ± 8.48
Grouse	0.00 ± 0.00	0.23 ± 0.14	0.86 ± 0.22	2.56 ± 1.38
Bear (adult)	0.19 ± 0.05	0.23 ± 0.14	1.16 ± 0.28	1.77 ± 0.55
Bear (cub)	0.09 ± 0.04	0.00 ± 0.00	0.48 ± 0.15	0.79 ± 0.32
Bear (total)	0.28 ± 0.07	0.23 ± 0.14	1.63 ± 0.36	2.56 ± 0.72
Red Fox	0.97 ± 0.19	0.63 ± 0.20	0.34 ± 0.10	0.06 ± 0.06
Gray Fox	0.37 ± 0.08	0.63 ± 0.24	0.34 ± 0.14	0.18 ± 0.17
Coyote	0.51 ± 0.09	0.40 ± 0.17	0.86 ± 0.20	0.85 ± 0.29
Bobcat	0.28 ± 0.07	0.00 ± 0.00	0.20 ± 0.07	0.12 ± 0.08
Raccoon	1.65 ± 0.18	0.92 ± 0.41	1.75 ± 0.34	0.49 ± 0.36
Opossum	0.26 ± 0.05	0.46 ± 0.22	0.23 ± 0.08	0.06 ± 0.06
Striped Skunk	0.16 ± 0.04	0.11 ± 0.07	0.34 ± 0.11	0.55 ± 0.25
Elk	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Feral Hog	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Dog	1.25 ± 0.17	1.32 ± 0.51	1.68 ± 1.05	0.49 ± 0.38
House Cat	0.64 ± 0.12	0.69 ± 0.42	1.38 ± 0.63	0.37 ± 0.23
Hunter	3.61 ± 0.76	4.35 ± 1.51	5.20 ± 1.11	10.55 ± 2.58
Total Hunters	253	46	116	56
Total Hunts	2,869	355	971	317
Total Hours	12,329	1,748	4,406	1,639
Avg. Hrs. Per Hunt	4.30 ± 0.04	4.92 ± 0.14	4.54 ± 0.08	5.17 ± 0.14

Table 3. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters from 6 October to 16 November 2012 within geographic regions of Virginia.

Animal	<u>Animals Seen/ 100 hrs. ± SE</u>				
	Tidewater	S. Piedmont	N. Piedmont	S. Mountain	N. Mountain
Deer (antlered)	15.86 ± 1.53	14.19 ± 1.19	18.76 ± 2.15	12.56 ± 1.62	7.96 ± 0.72
Deer (doe)	23.71 ± 3.26	28.90 ± 2.92	37.05 ± 4.10	30.53 ± 3.97	24.34 ± 2.94
Deer (fawn)	10.13 ± 1.91	11.32 ± 1.78	15.05 ± 2.07	13.81 ± 2.96	12.07 ± 2.08
Deer (unknown)	6.95 ± 0.78	11.05 ± 3.42	12.49 ± 1.90	11.15 ± 2.11	10.00 ± 1.38
Gray Squirrel	82.14 ± 5.78	111.35 ± 7.24	135.34 ± 9.91	84.42 ± 10.58	112.86 ± 9.35
Fox Squirrel	0.00 ± 0.00	0.55 ± 0.19	1.57 ± 0.42	16.85 ± 3.91	18.10 ± 3.13
Turkey (bearded)	4.86 ± 1.16	3.69 ± 0.72	2.64 ± 0.54	5.82 ± 1.25	2.10 ± 0.64
Turkey (no beard)	15.89 ± 2.19	13.10 ± 2.59	9.36 ± 1.96	20.07 ± 4.16	6.94 ± 1.53
Turkey (unknown)	11.63 ± 2.73	10.02 ± 2.45	7.28 ± 1.48	16.66 ± 4.18	14.45 ± 3.77
Turkey (total)	32.37 ± 3.62	26.81 ± 3.82	19.28 ± 2.58	42.55 ± 6.40	23.50 ± 4.69
Grouse	0.00 ± 0.00	0.00 ± 0.00	0.07 ± 0.05	1.66 ± 0.80	0.95 ± 0.31
Bear (adult)	0.00 ± 0.00	0.23 ± 0.08	0.34 ± 0.11	1.06 ± 0.26	1.61 ± 0.45
Bear (cub)	0.00 ± 0.00	0.11 ± 0.08	0.11 ± 0.06	0.59 ± 0.24	0.53 ± 0.17
Bear (total)	0.00 ± 0.00	0.34 ± 0.14	0.45 ± 0.13	1.66 ± 0.45	2.14 ± 0.49
Red Fox	0.25 ± 0.09	0.46 ± 0.14	1.85 ± 0.39	0.16 ± 0.08	0.39 ± 0.13
Gray Fox	0.44 ± 0.11	0.52 ± 0.15	0.26 ± 0.12	0.09 ± 0.09	0.53 ± 0.20
Coyote	0.58 ± 0.15	0.59 ± 0.17	0.36 ± 0.10	0.94 ± 0.22	0.77 ± 0.24
Bobcat	0.30 ± 0.12	0.39 ± 0.16	0.07 ± 0.06	0.25 ± 0.10	0.11 ± 0.06
Raccoon	1.73 ± 0.31	1.39 ± 0.27	1.55 ± 0.28	1.63 ± 0.37	1.16 ± 0.39
Opossum	0.35 ± 0.10	0.25 ± 0.10	0.26 ± 0.09	0.28 ± 0.11	0.07 ± 0.05
Striped Skunk	0.16 ± 0.07	0.05 ± 0.03	0.24 ± 0.08	0.44 ± 0.14	0.35 ± 0.16
Elk	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Feral Hog	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Dog	1.06 ± 0.24	1.23 ± 0.33	1.44 ± 0.25	2.25 ± 1.47	0.35 ± 0.12
House Cat	0.18 ± 0.06	1.07 ± 0.27	0.67 ± 0.19	1.72 ± 0.87	0.42 ± 0.16
Hunter	3.55 ± 1.11	3.12 ± 1.20	4.31 ± 0.90	7.20 ± 1.54	6.03 ± 1.68
Total Hunters	91	97	128	70	65
Total Hunts	1,001	1,014	1,209	657	631
Total Hours	4,344	4,390	5,342	3,194	2,851
Avg. Hrs. Per Hunt	4.34 ± 0.07	4.33 ± 0.07	4.42 ± 0.07	4.86 ± 0.11	4.52 ± 0.09

Table 4. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters by week from 6 October to 16 November 2012 in Virginia.

Animal	<u>Animals Seen/100 hrs. + SE</u>						
	Day 1 (10/6)	Week 1 (10/8-13)	Week 2 (10/15-20)	Week 3 (10/22-27)	Week 4 (10/29-11/3)	Week 5 (11/5-10)	Week 6 (11/12-16)
Deer (antlered)	10.46 ± 1.01	12.83 ± 1.04	12.30 ± 0.98	12.00 ± 1.06	20.60 ± 1.66	18.19 ± 1.42	14.80 ± 1.49
Deer (doe)	25.39 ± 2.45	30.60 ± 2.03	30.02 ± 2.80	24.84 ± 1.96	33.50 ± 2.80	30.58 ± 2.68	30.12 ± 2.69
Deer (fawn)	12.01 ± 1.38	13.76 ± 1.30	11.27 ± 1.24	11.00 ± 1.33	12.01 ± 1.45	13.83 ± 1.87	13.60 ± 2.06
Deer (unknown)	7.97 ± 1.08	8.71 ± 0.90	7.30 ± 0.98	11.77 ± 2.08	15.30 ± 2.91	10.93 ± 1.30	10.82 ± 1.57
Gray Squirrel	91.30 ± 5.02	105.90 ± 5.01	119.39 ± 6.40	113.15 ± 4.80	102.94 ± 5.78	106.42 ± 6.49	102.96 ± 6.76
Fox Squirrel	5.17 ± 1.10	4.98 ± 0.90	6.67 ± 1.24	7.77 ± 1.96	4.54 ± 0.96	6.21 ± 1.46	4.36 ± 1.12
Turkey (bearded)	4.61 ± 1.16	3.86 ± 0.66	2.77 ± 0.56	3.61 ± 1.05	4.18 ± 0.87	3.87 ± 0.82	4.07 ± 1.05
Turkey (no beard)	13.75 ± 3.16	12.72 ± 2.18	13.75 ± 2.41	10.94 ± 1.98	15.45 ± 2.58	11.42 ± 2.07	13.60 ± 3.66
Turkey (unknown)	9.83 ± 1.94	9.57 ± 1.47	11.39 ± 2.63	13.13 ± 2.44	10.69 ± 2.29	12.86 ± 2.40	11.30 ± 3.09
Turkey (total)	28.19 ± 4.17	26.16 ± 3.06	27.91 ± 3.52	27.68 ± 3.51	30.32 ± 3.82	28.15 ± 3.28	28.97 ± 4.91
Grouse	0.62 ± 0.21	0.30 ± 0.11	0.60 ± 0.31	0.29 ± 0.11	0.36 ± 0.21	0.47 ± 0.12	0.38 ± 0.16
Bear (adult)	0.62 ± 0.23	0.79 ± 0.18	0.66 ± 0.18	0.65 ± 0.20	0.29 ± 0.12	0.41 ± 0.12	0.19 ± 0.12
Bear (cub)	0.06 ± 0.06	0.38 ± 0.14	0.28 ± 0.12	0.16 ± 0.08	0.29 ± 0.13	0.12 ± 0.07	0.14 ± 0.11
Bear (total)	0.68 ± 0.27	1.17 ± 0.27	0.94 ± 0.23	0.81 ± 0.22	0.57 ± 0.22	0.53 ± 0.17	0.34 ± 0.21
Red Fox	0.31 ± 0.16	0.69 ± 0.17	0.85 ± 0.18	0.71 ± 0.20	0.97 ± 0.24	0.64 ± 0.15	0.77 ± 0.28
Gray Fox	0.37 ± 0.18	0.41 ± 0.12	0.47 ± 0.15	0.32 ± 0.11	0.46 ± 0.18	0.29 ± 0.12	0.19 ± 0.09
Coyote	0.68 ± 0.26	0.63 ± 0.16	0.47 ± 0.15	0.74 ± 0.21	1.00 ± 0.29	0.41 ± 0.12	0.29 ± 0.11
Bobcat	0.12 ± 0.09	0.38 ± 0.14	0.25 ± 0.11	0.19 ± 0.08	0.14 ± 0.07	0.15 ± 0.08	0.24 ± 0.12

Table 4 (continued). Observations of selected animals (per 100 hours of hunting) by cooperating archery hunters by week from 6 October to 16 November 2012 in Virginia.

Animal	<u>Animals Seen/100 hrs. + SE</u>						
	Day 1 (10/6)	Week 1 (10/8-13)	Week 2 (10/15-20)	Week 3 (10/22-27)	Week 4 (10/29-11/3)	Week 5 (11/5-10)	Week 6 (11/12-16)
Raccoon	1.12 ± 0.36	1.65 ± 0.31	1.38 ± 0.29	1.90 ± 0.33	1.14 ± 0.30	1.64 ± 0.33	1.44 ± 0.34
Opossum	0.25 ± 0.12	0.15 ± 0.06	0.19 ± 0.08	0.39 ± 0.12	0.21 ± 0.09	0.23 ± 0.09	0.43 ± 0.15
Striped Skunk	0.44 ± 0.19	0.20 ± 0.07	0.19 ± 0.08	0.19 ± 0.08	0.32 ± 0.15	0.15 ± 0.08	0.24 ± 0.13
Elk	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Feral Hog	0.00 ± 0.00	0.00 ± 0.00	0.03 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Dog	1.24 ± 0.52	1.37 ± 0.34	1.32 ± 0.32	1.26 ± 0.37	1.50 ± 0.36	1.14 ± 0.31	1.10 ± 0.58
House Cat	1.06 ± 0.33	0.81 ± 0.21	0.72 ± 0.26	0.68 ± 0.21	0.39 ± 0.12	0.79 ± 0.25	1.29 ± 0.42
Hunter	6.41 ± 1.30	4.44 ± 0.76	4.06 ± 0.77	3.71 ± 0.60	4.90 ± 0.86	5.33 ± 1.01	3.93 ± 0.85
Total Hunters	292	322	315	300	282	221	179
Total Hunts	307	898	790	750	621	691	455
Total Hours	1,607	3,938	3,178	3,100	2,797	3,414	2,088
Avg. Hrs. Per Hunt	5.23 ± 0.14	4.39 ± 0.08	4.02 ± 0.08	4.13 ± 0.08	4.50 ± 0.10	4.94 ± 0.10	4.59 ± 0.12

Table 5. Doe-buck and fawn-doe ratio estimates (a) east and west of the Blue Ridge Mountains, (b) by land ownership, (c) by region, and (d) by week of survey season based on cooperating archery hunter observations in Virginia from 6 October to 16 November 2012.

(a)

Ratio	Statewide	East of BR	West of BR
Doe: Buck	2.02	1.85	2.66
Fawn: Doe	0.42	0.41	0.47

(b)

Ratio	Private	Public
Doe: Buck	2.03	1.97
Fawn: Doe	0.43	0.36

(c)

Ratio	Tidewater	S. Piedmont	N. Piedmont	S. Mountain	N. Mountain
Doe: Buck	1.49	2.01	1.98	2.68	3.06
Fawn: Doe	0.43	0.44	0.41	0.37	0.50

(d)

Ratio	Day 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Doe: Buck	2.43	2.39	2.44	2.07	1.63	1.68	2.04
Fawn: Doe	0.47	0.45	0.38	0.44	0.36	0.45	0.45

Table 6. Statewide total observations and total observations per 100 hunts of miscellaneous animals by cooperating archery hunters 6 October to 16 November 2012 in Virginia.

Animal	Total Observations	Observations / 100 Hunts
Bats	0	0.00
Beaver	11	0.23
Buzzard	17	0.36
Chipmunk	83	1.75
Crow	594	12.54
Doves	34	0.72
Ducks	502	10.60
Eagle	39	0.82
Falcon	0	0.00
Flying Squirrels	5	0.11
Geese	893	18.86
Groundhog	42	0.89
Hawk	224	4.73
Herons	11	0.23
Mink	2	0.04
Miscellaneous Birds	28	0.59
Mouse	1	0.02
Muskrat	1	0.02
Nutria	0	0.00
Otter	7	0.15
Owl	53	1.12
Pheasant	1	0.02
Quail	81	1.71
Rabbit	101	2.13
Red Squirrel	0	0.00
Shrew	0	0.00
Sika & Other Deer	0	0.00
Snake	5	0.11
Snipe	3	0.06
Turtles	7	0.15
Weasel	0	0.00
Woodcock	24	0.51

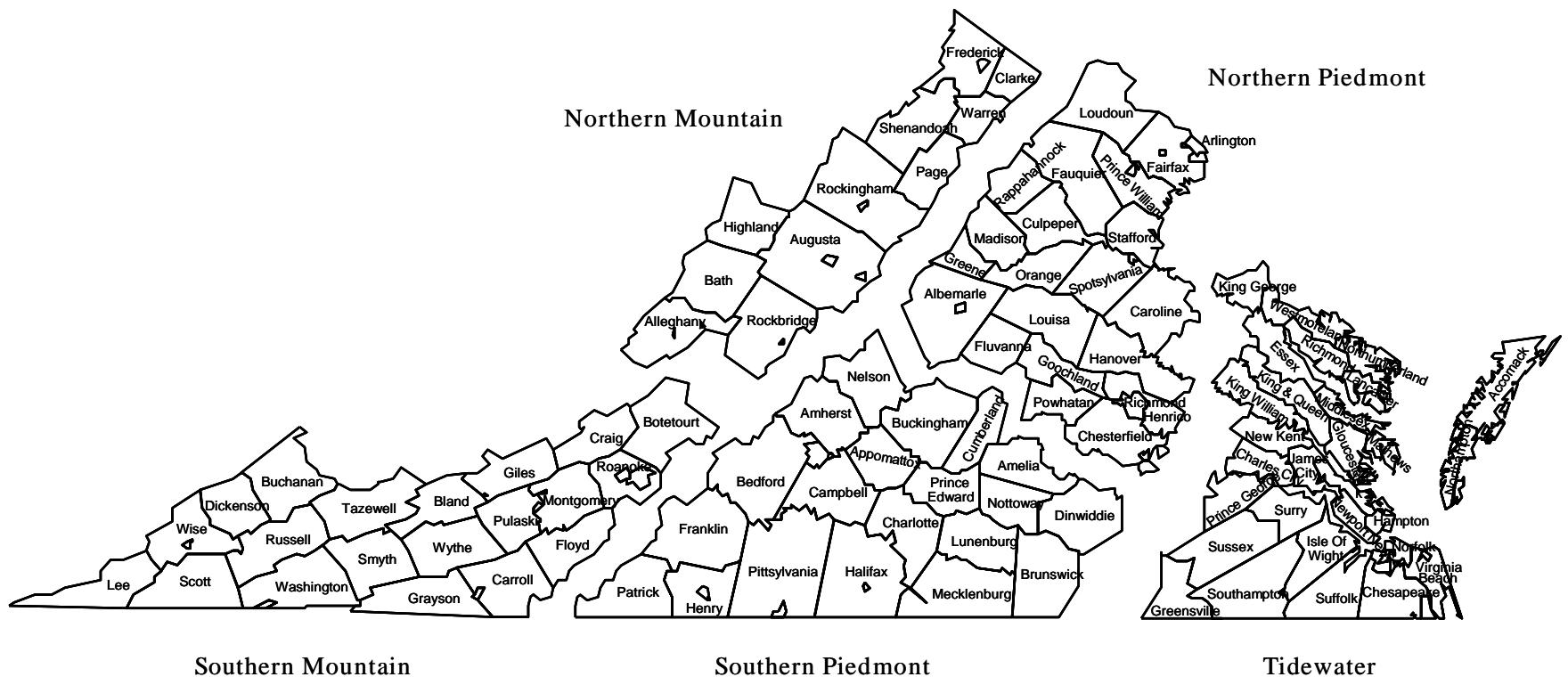


Figure 1. Geographic regions used for analyses in this report.

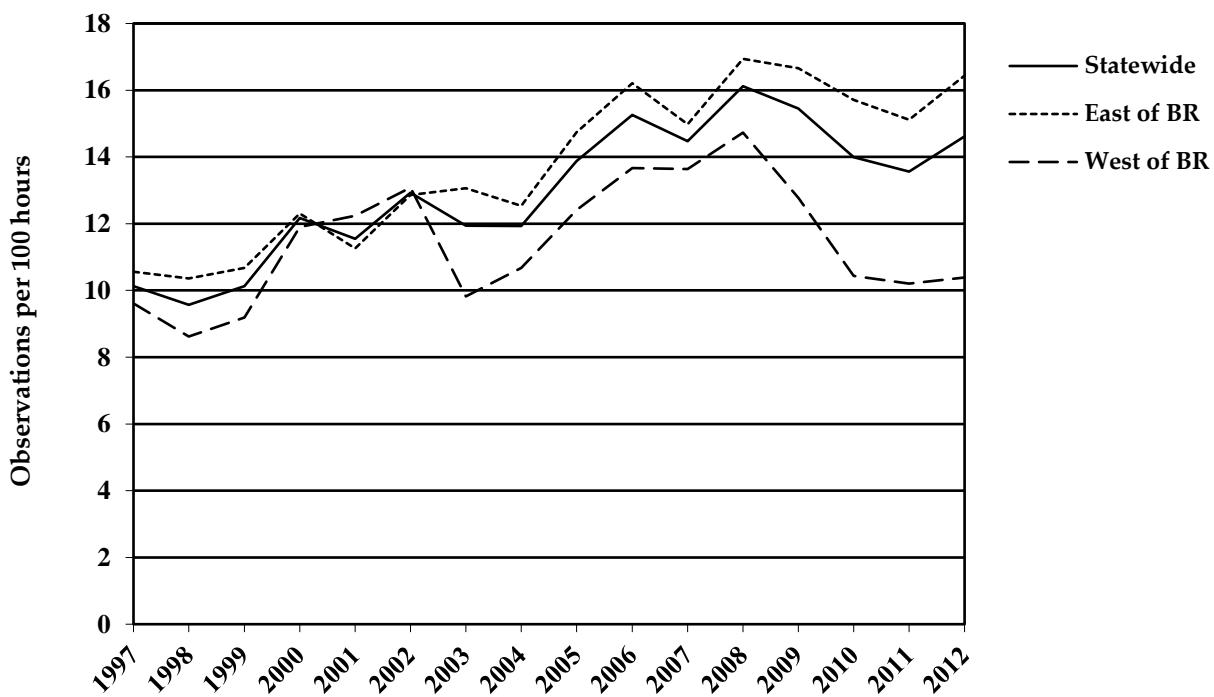


Figure 2. Antlered deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.



Figure 3. Antlered deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

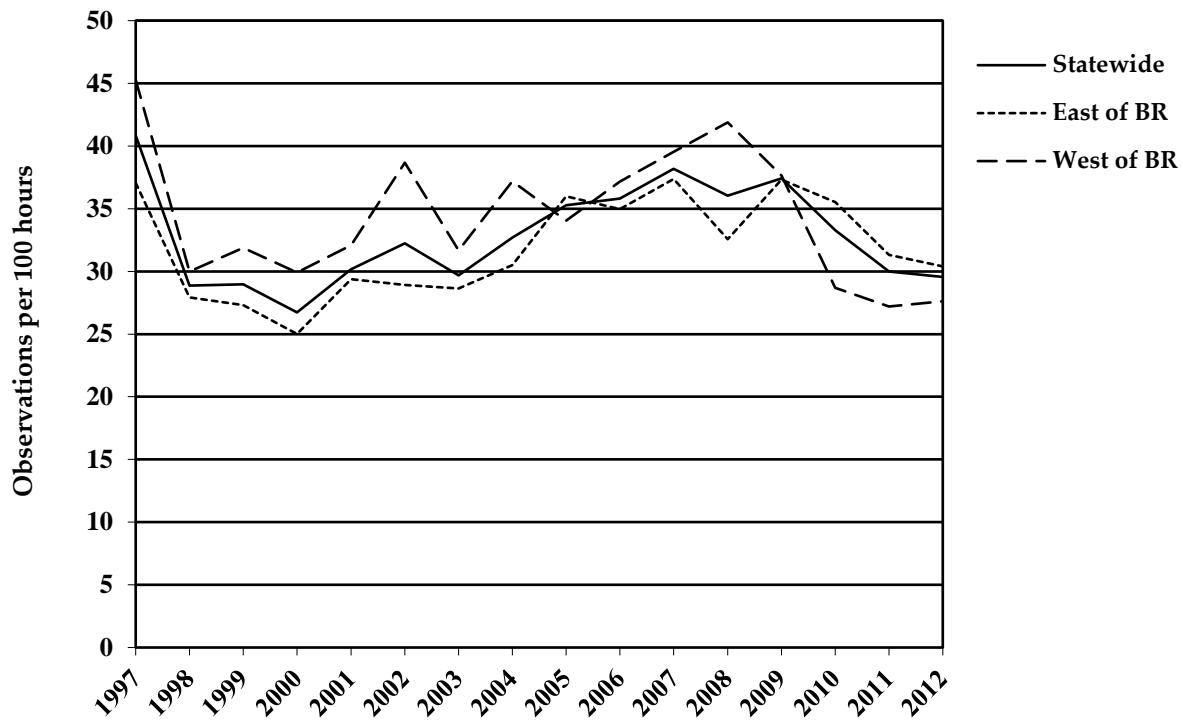


Figure 4. Doe deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

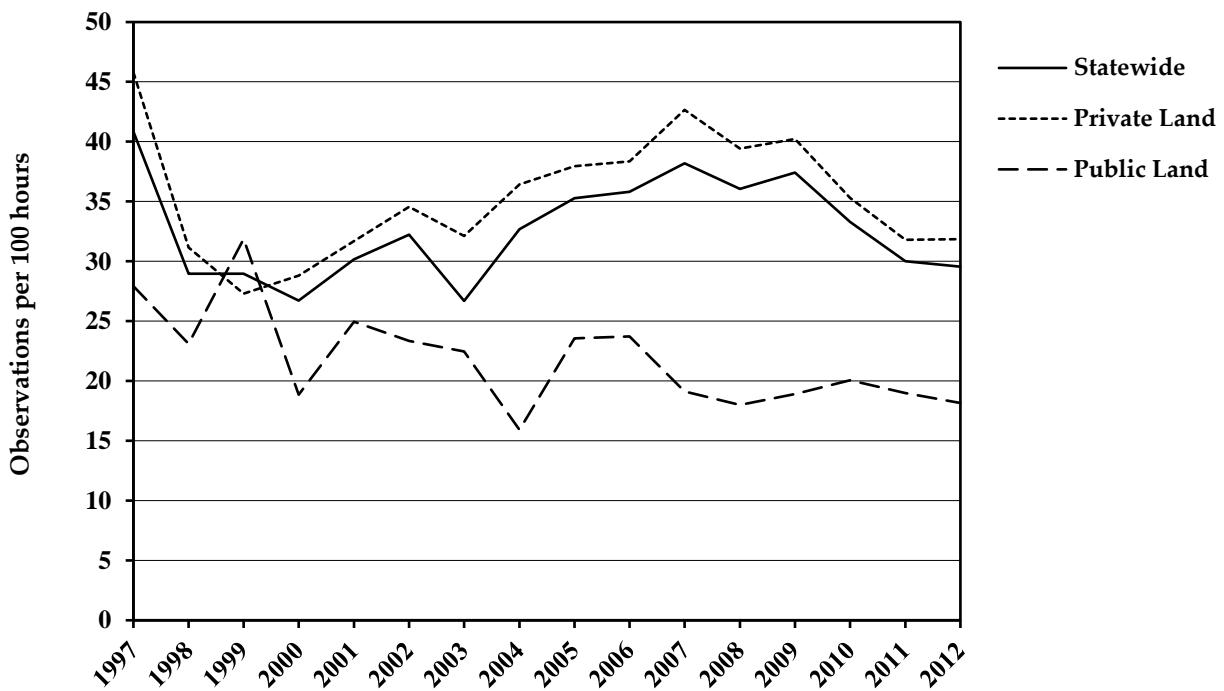


Figure 5. Doe deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

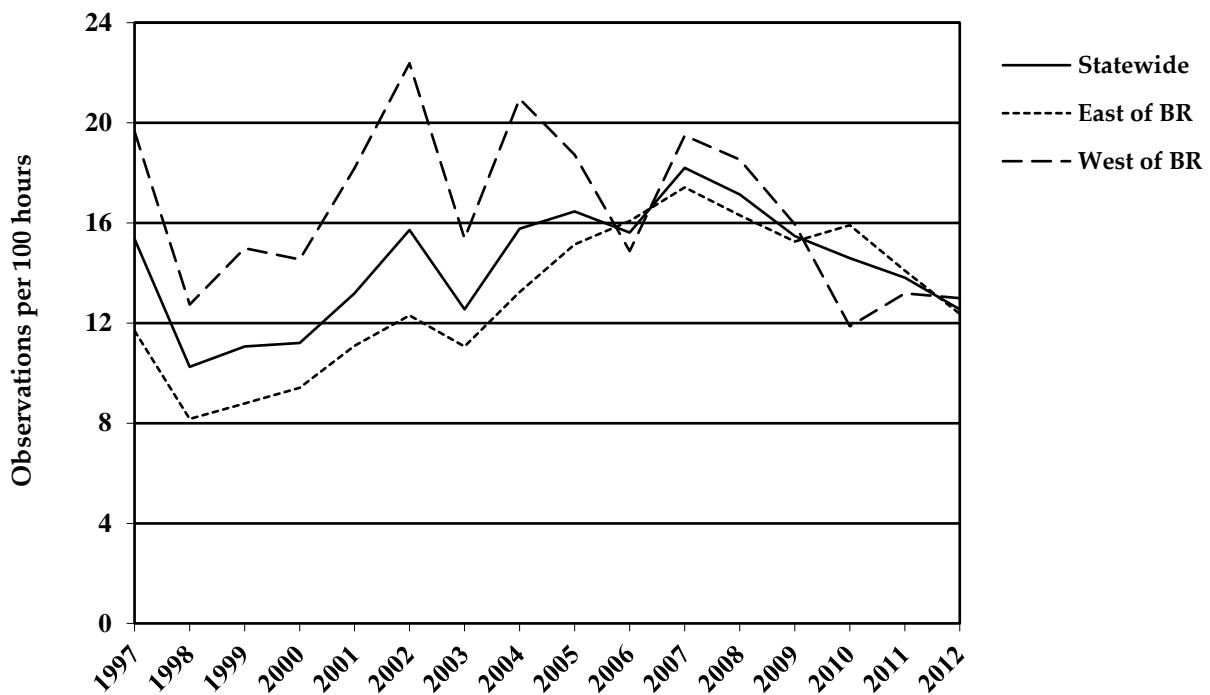


Figure 6. Fawns observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.



Figure 7. Fawns observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

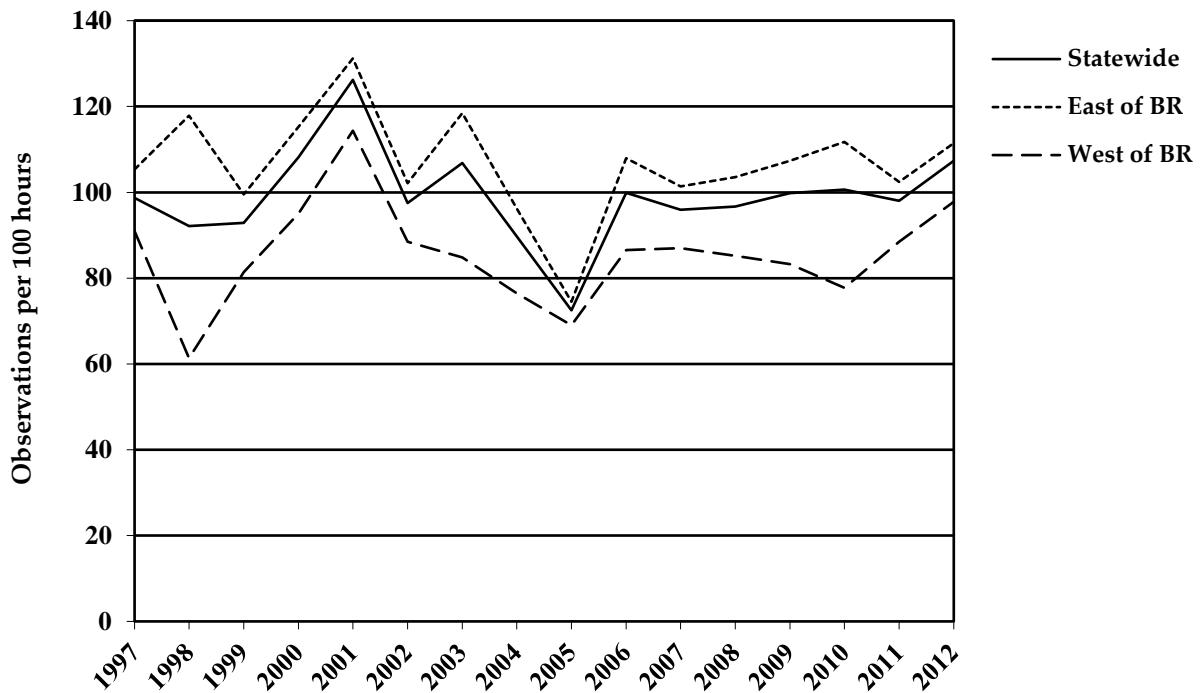


Figure 8. Gray squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

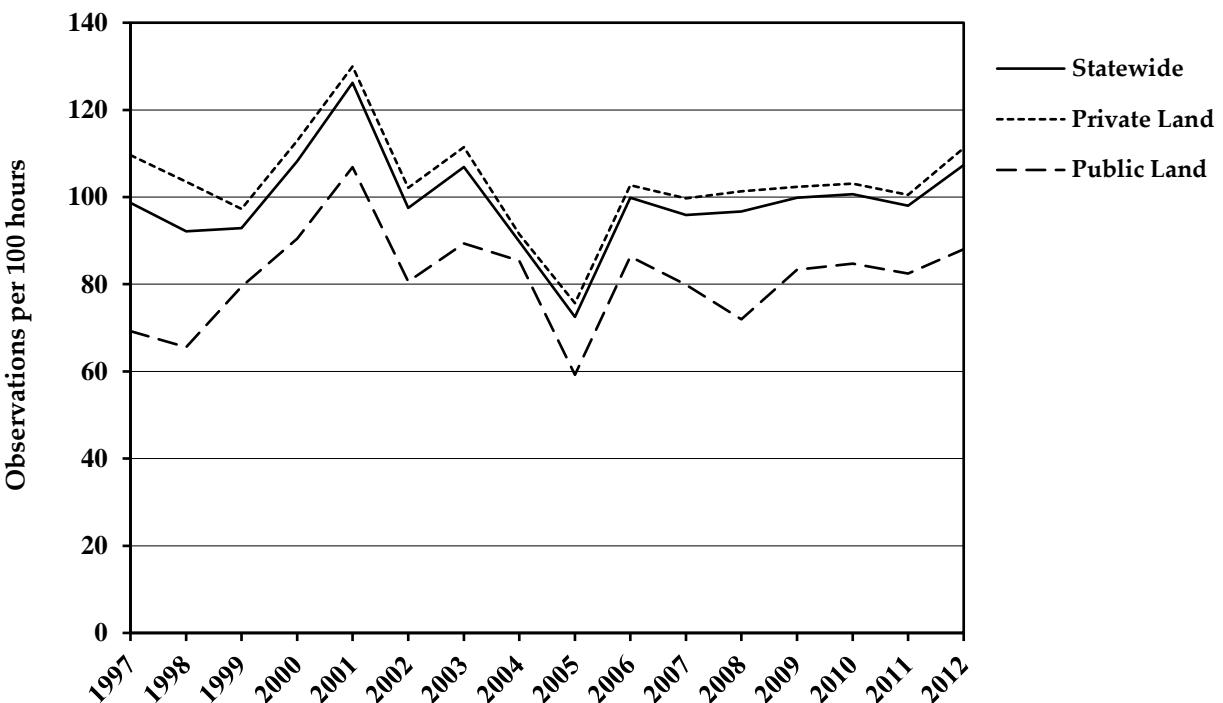


Figure 9. Gray squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

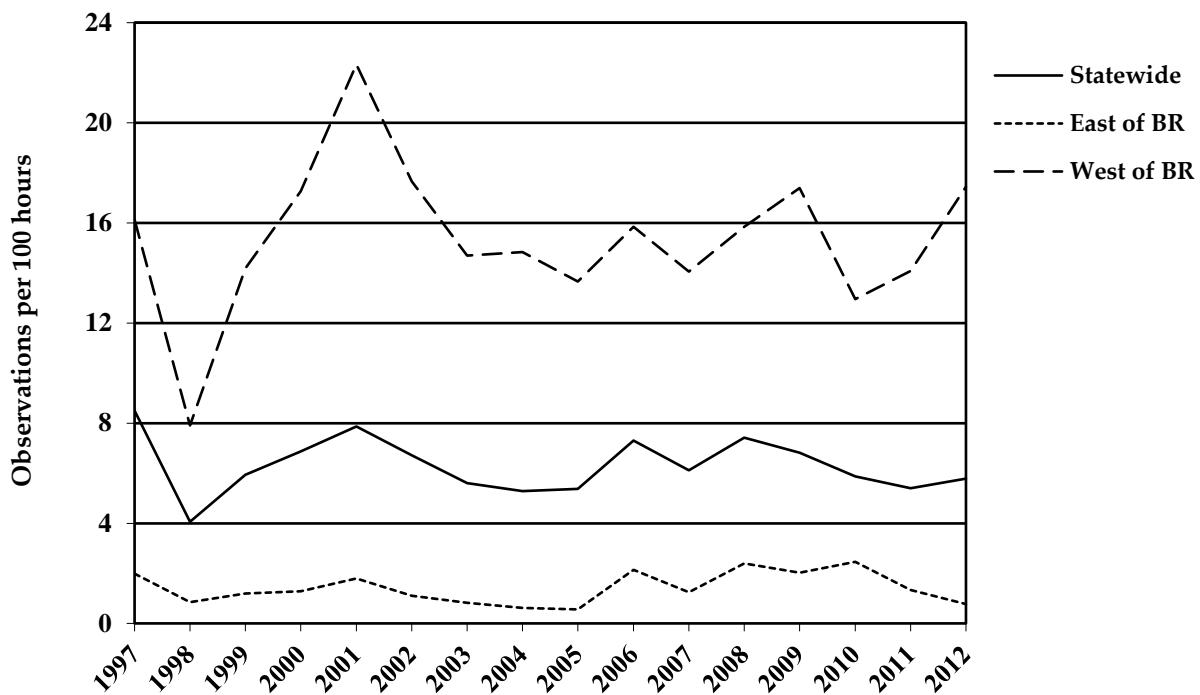


Figure 10. Fox squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

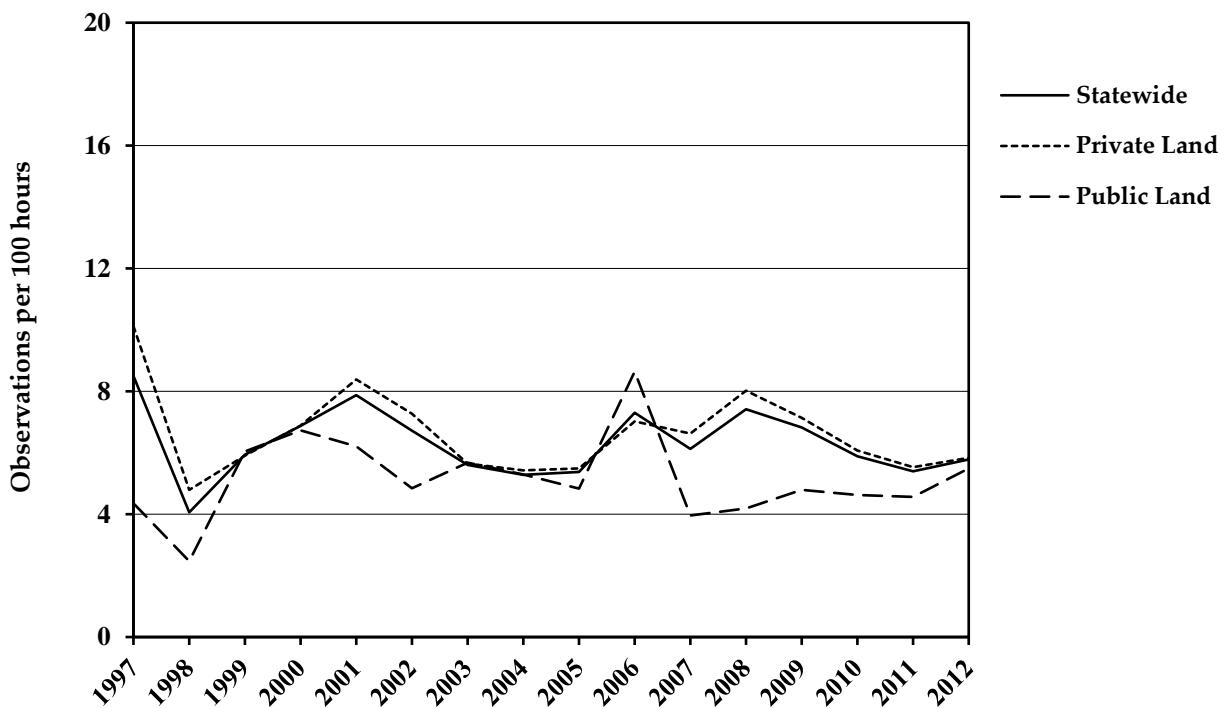


Figure 11. Fox squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

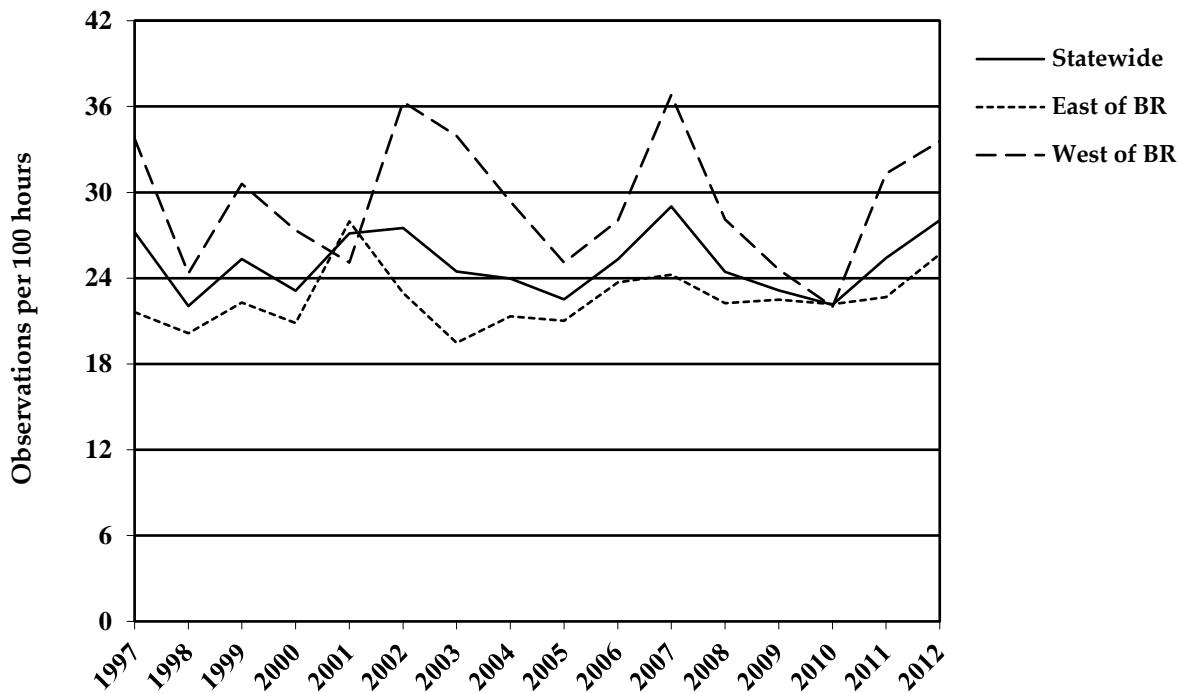


Figure 12. Wild turkeys observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

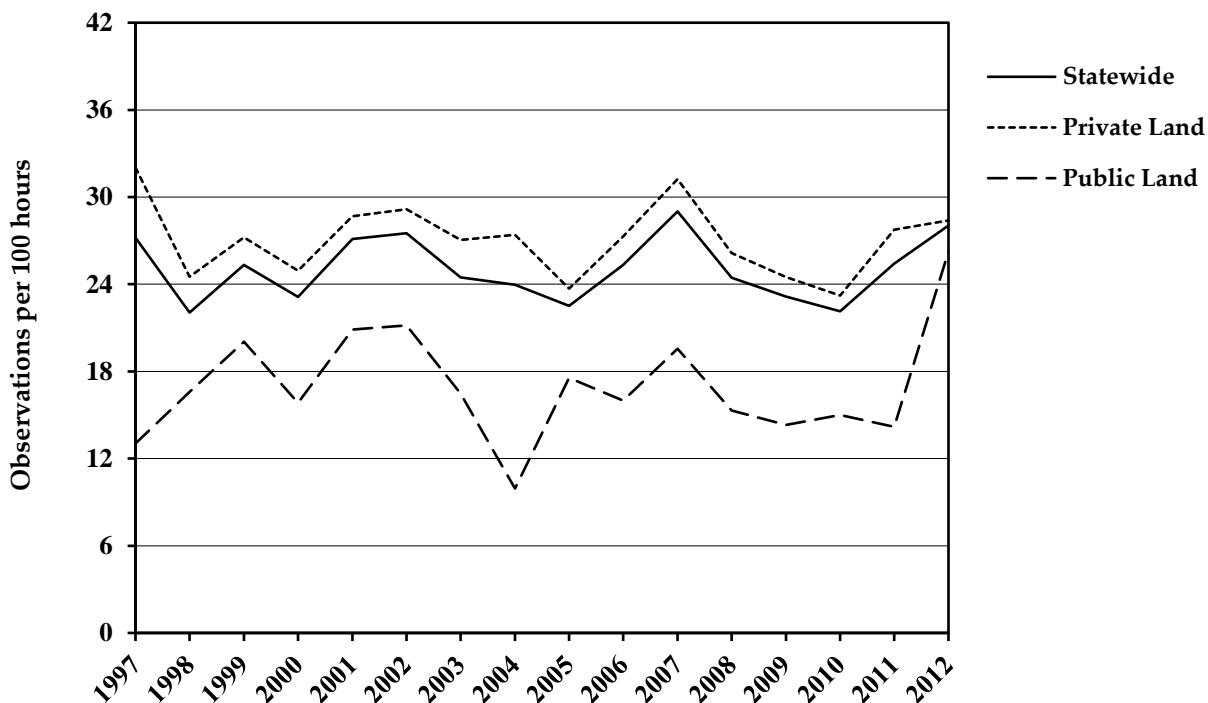


Figure 13. Wild turkeys observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

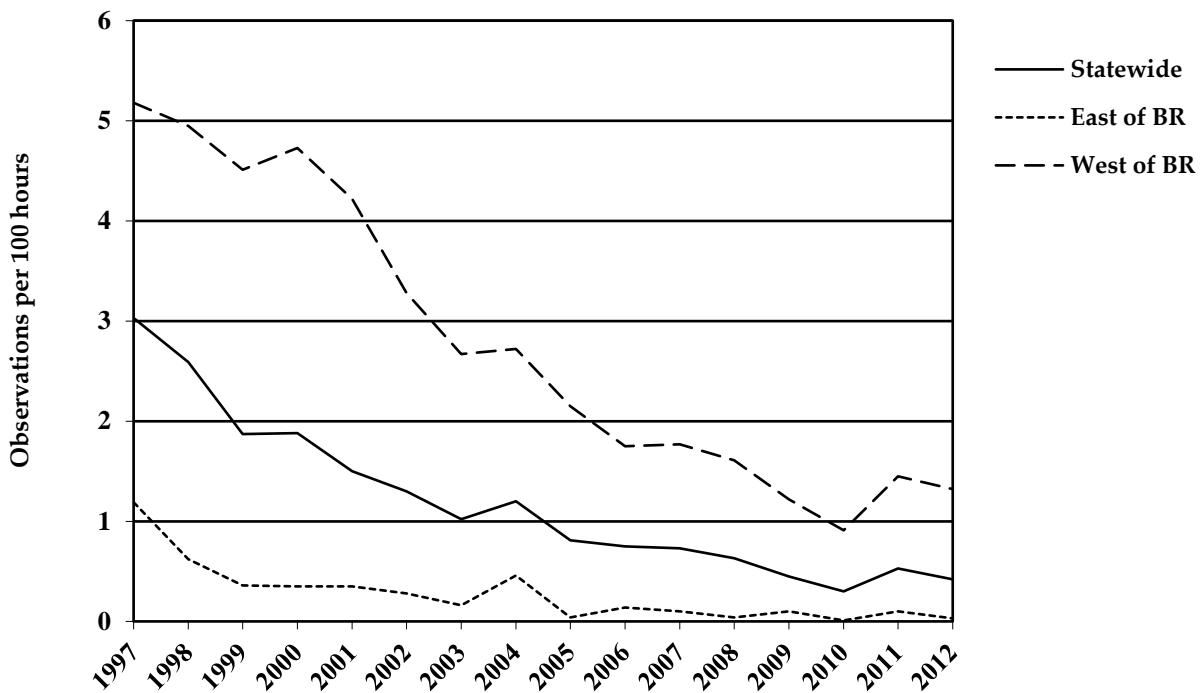


Figure 14. Ruffed grouse observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

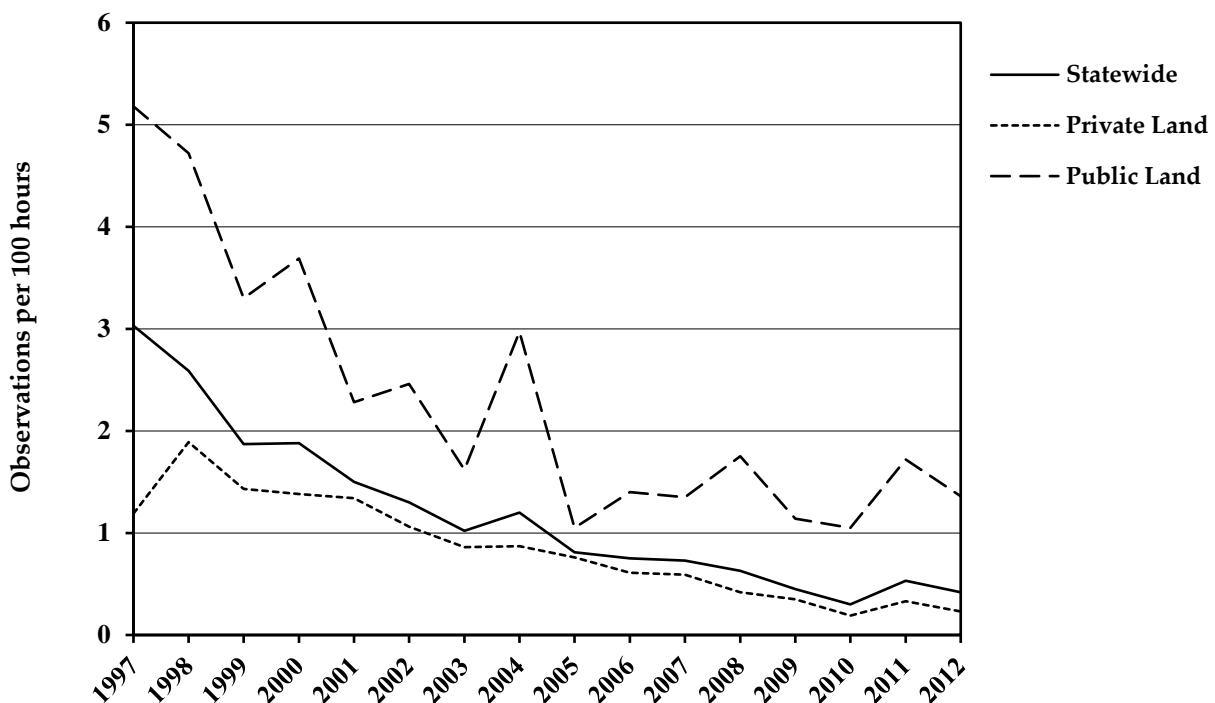


Figure 15. Ruffed grouse observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

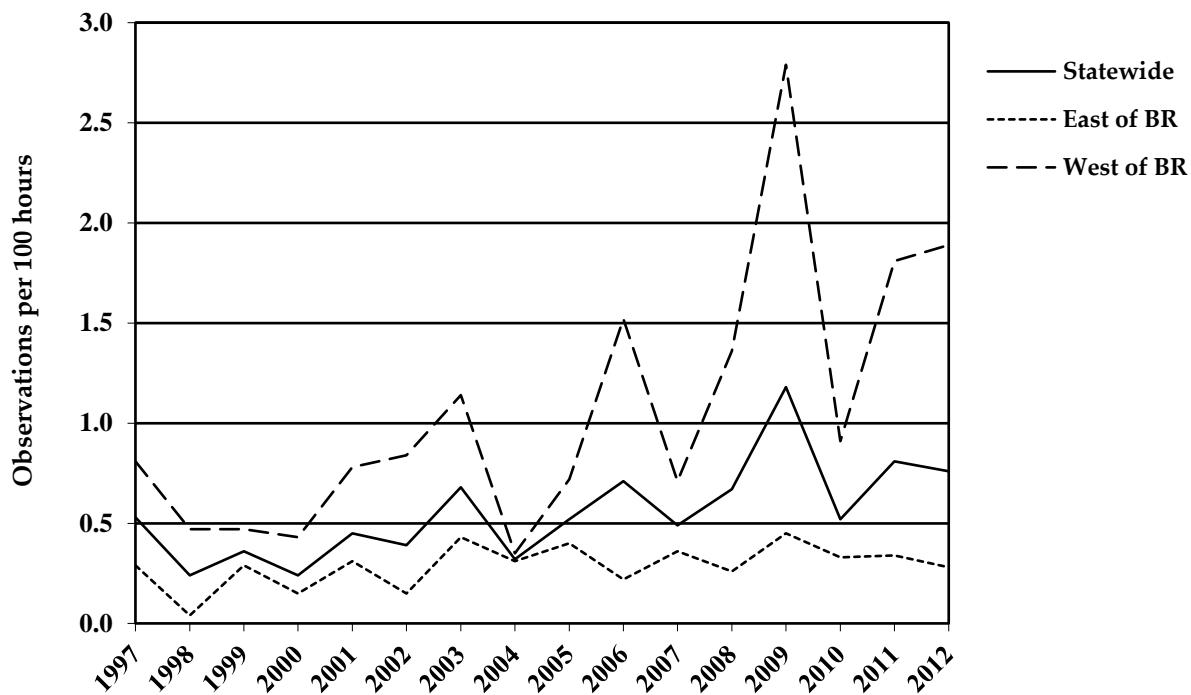


Figure 16. Black bears observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

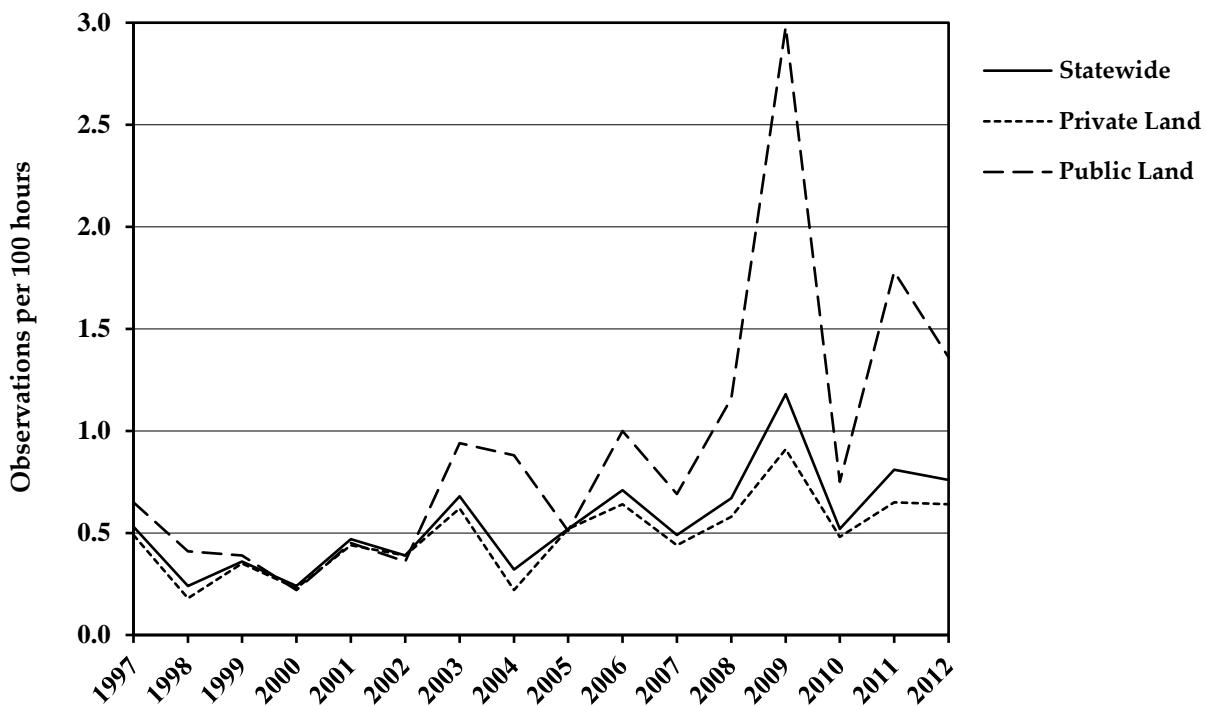


Figure 17. Black bears observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

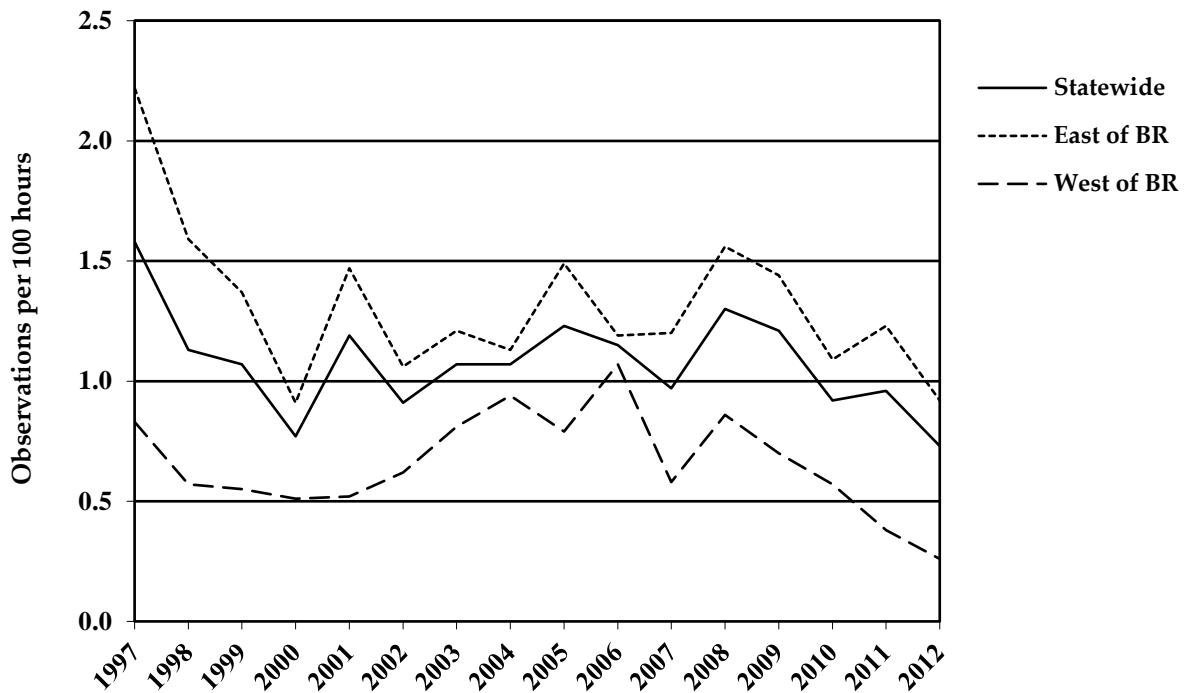


Figure 18. Red foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

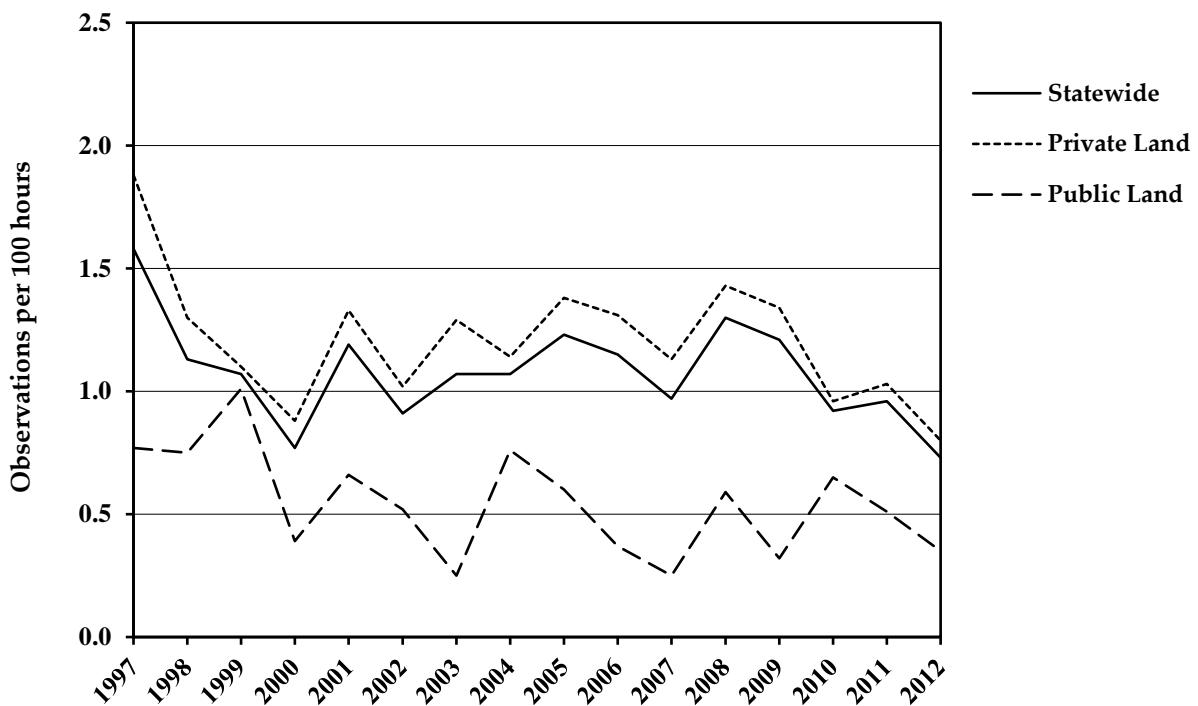


Figure 19. Red foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

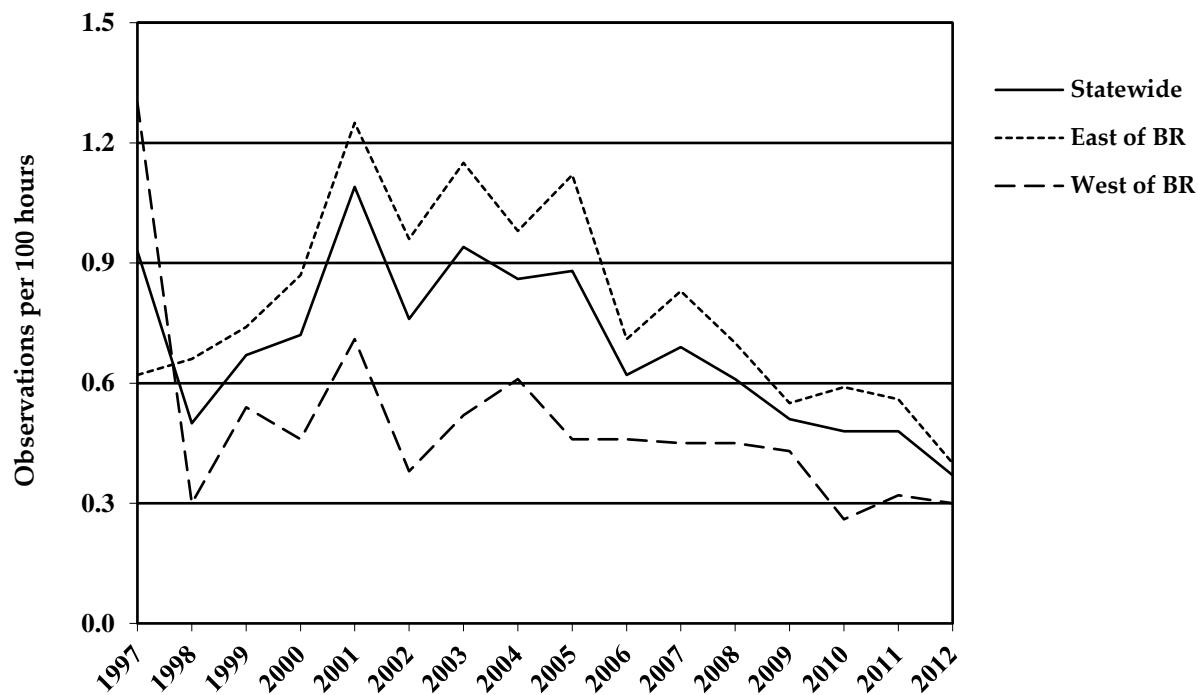


Figure 20. Gray foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

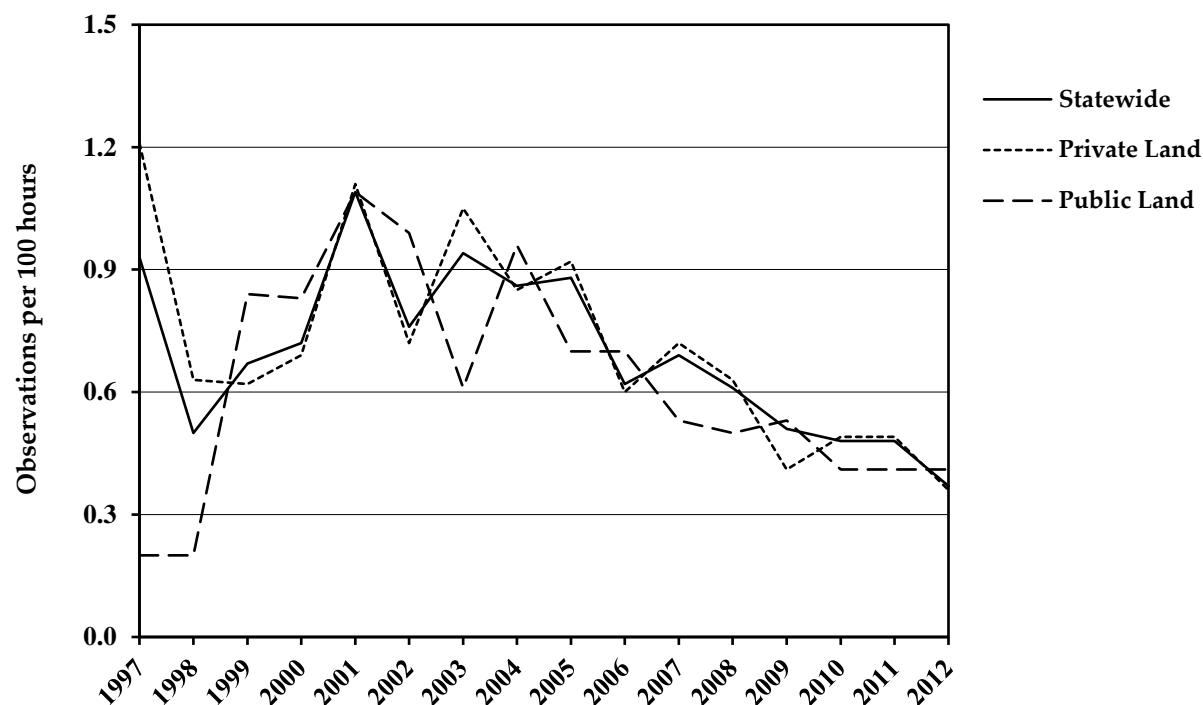


Figure 21. Gray foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

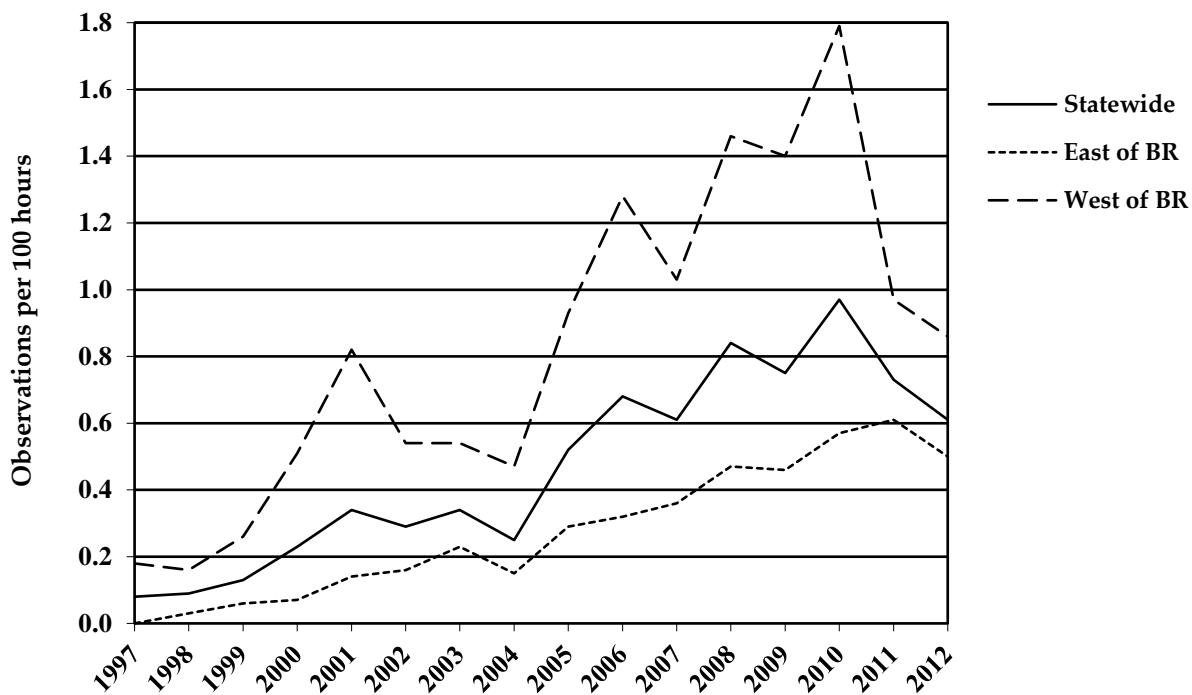


Figure 22. Coyotes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

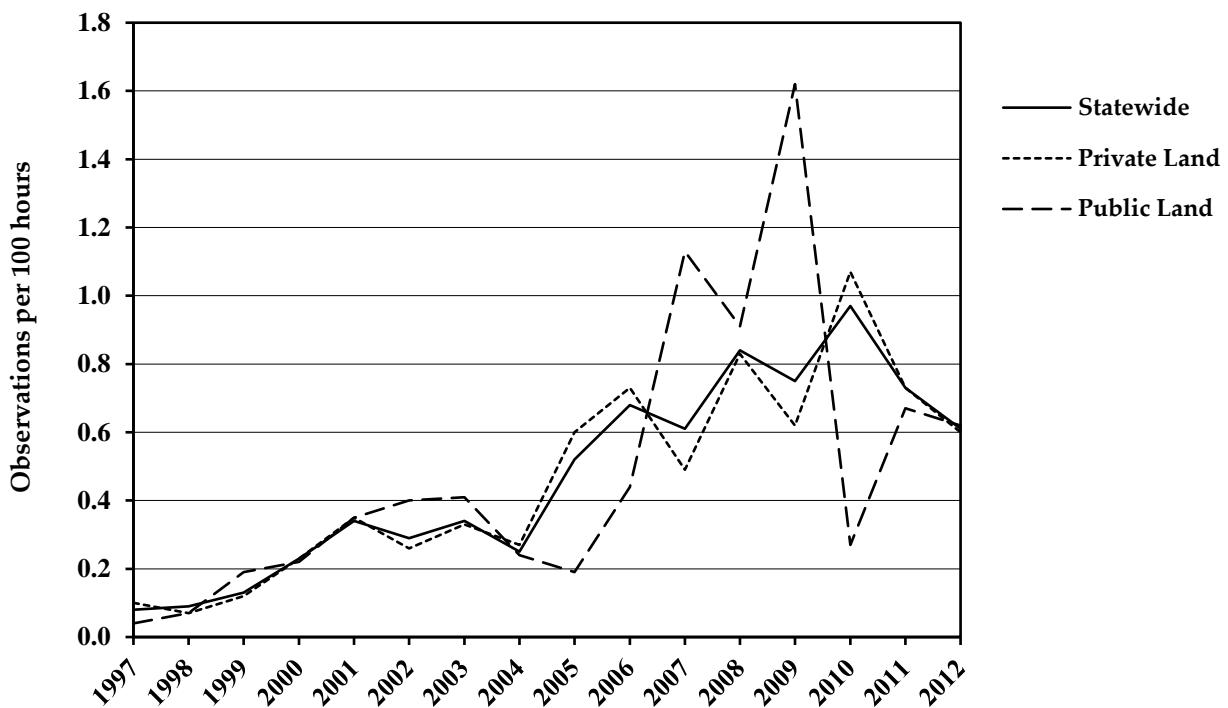


Figure 23. Coyotes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

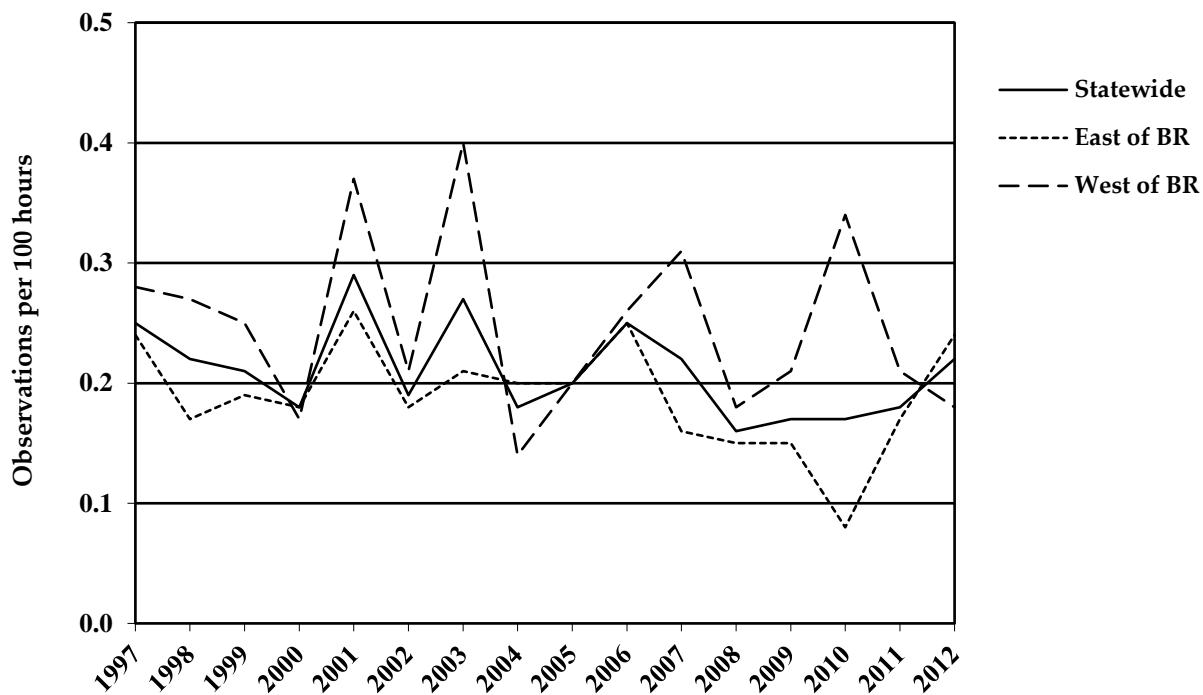


Figure 24. Bobcats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

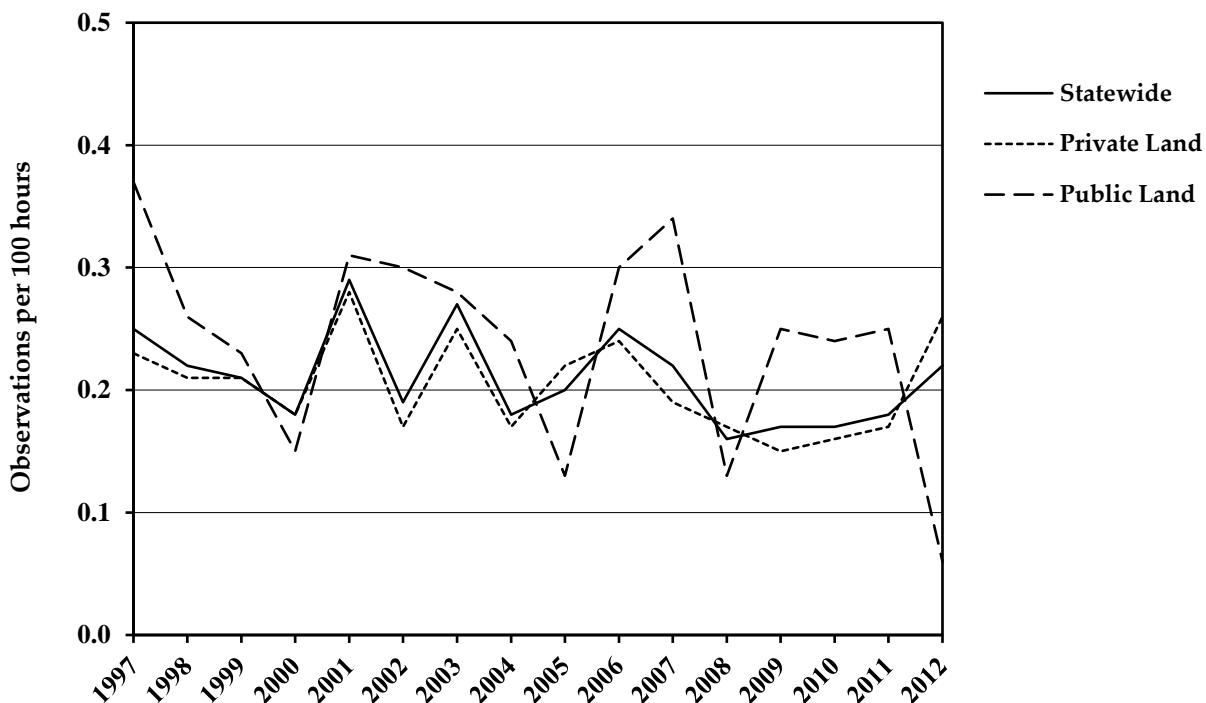


Figure 25. Bobcats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

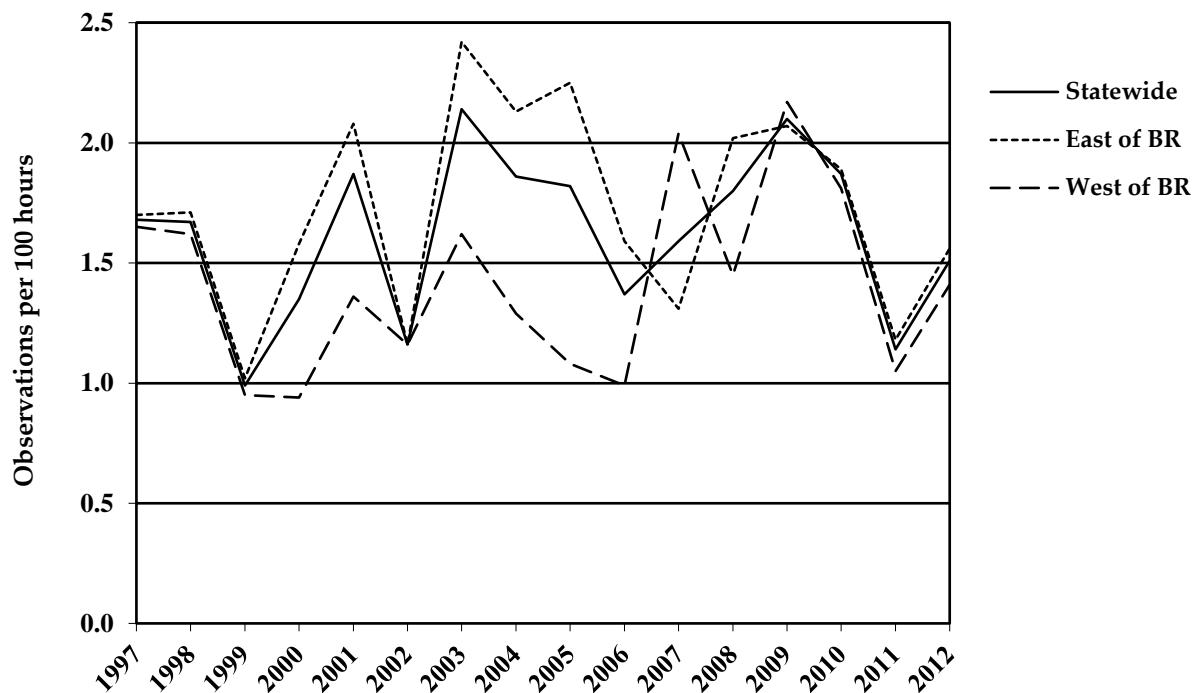


Figure 26. Raccoons observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

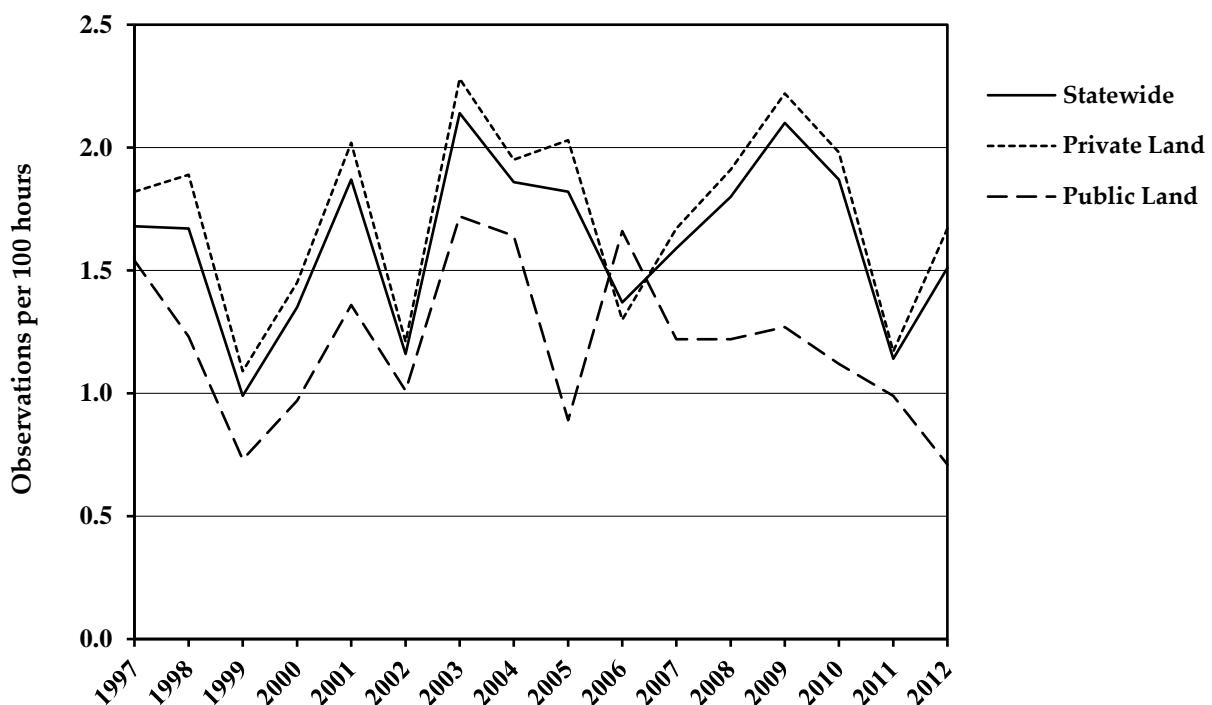


Figure 27. Raccoons observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

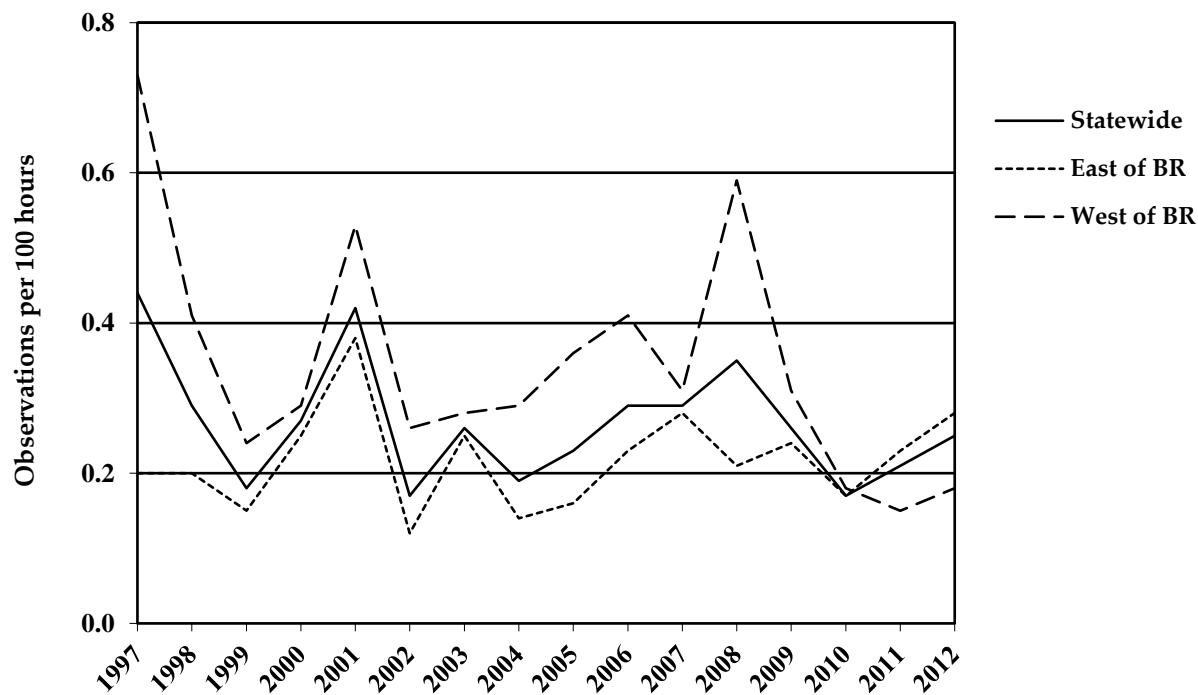


Figure 28. Opossums observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

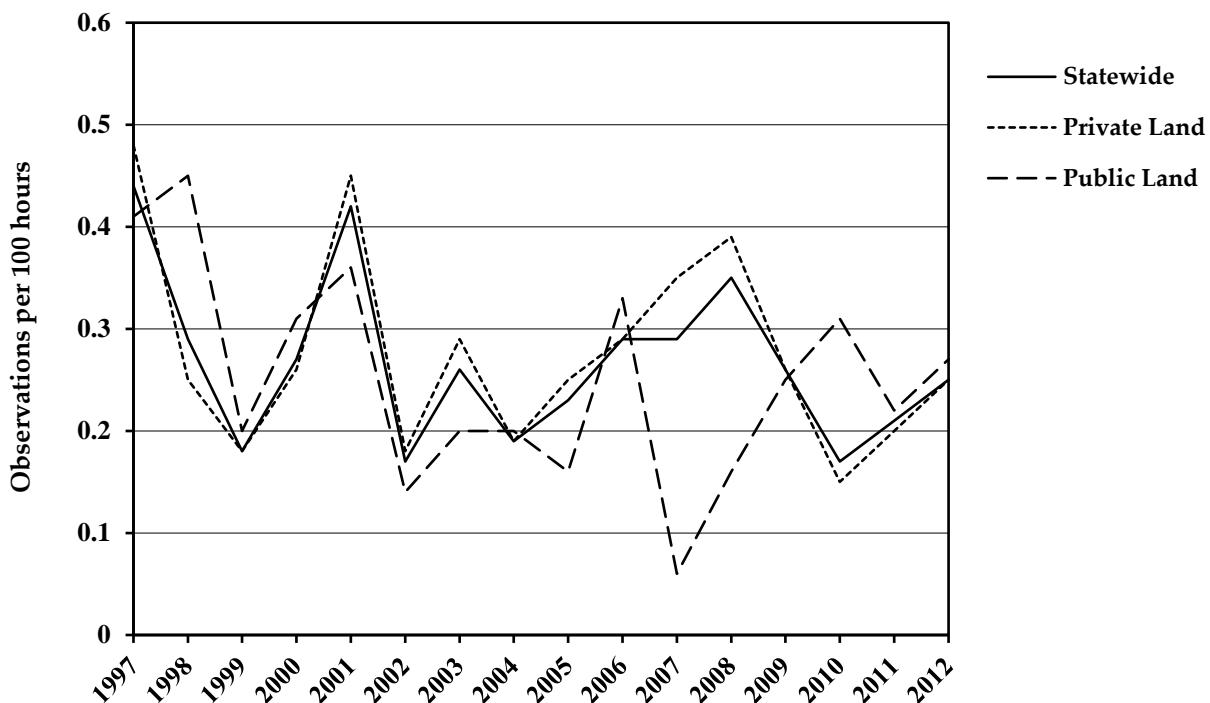


Figure 29. Opossums observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

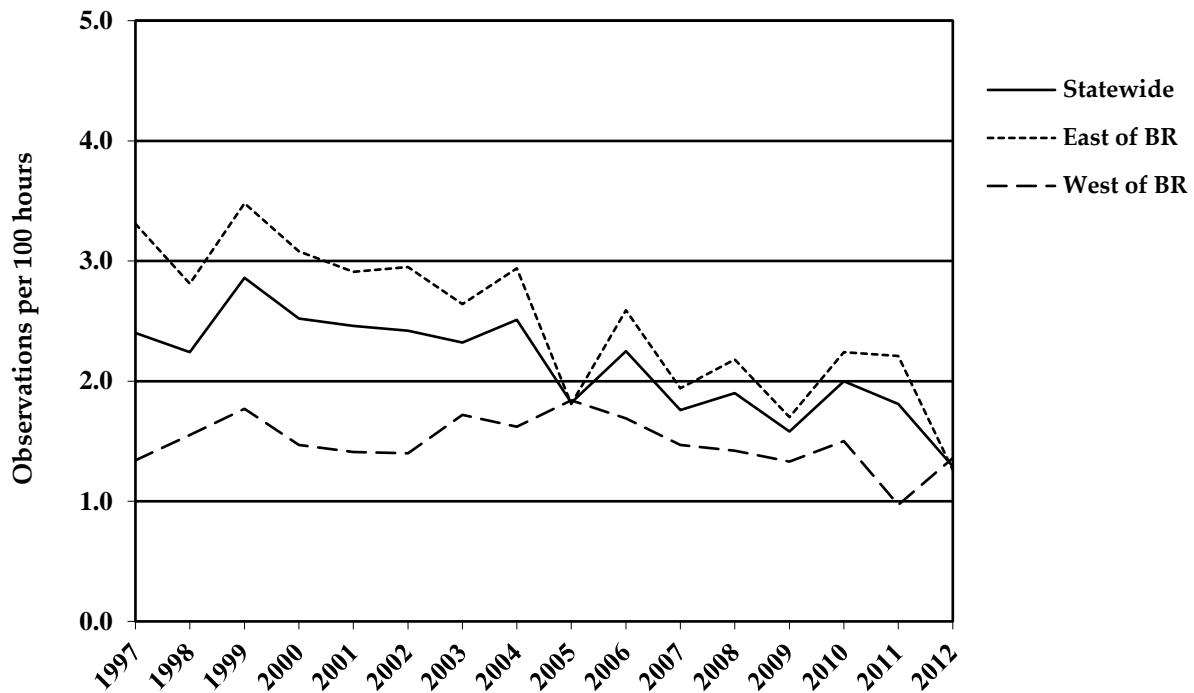


Figure 30. Dogs observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

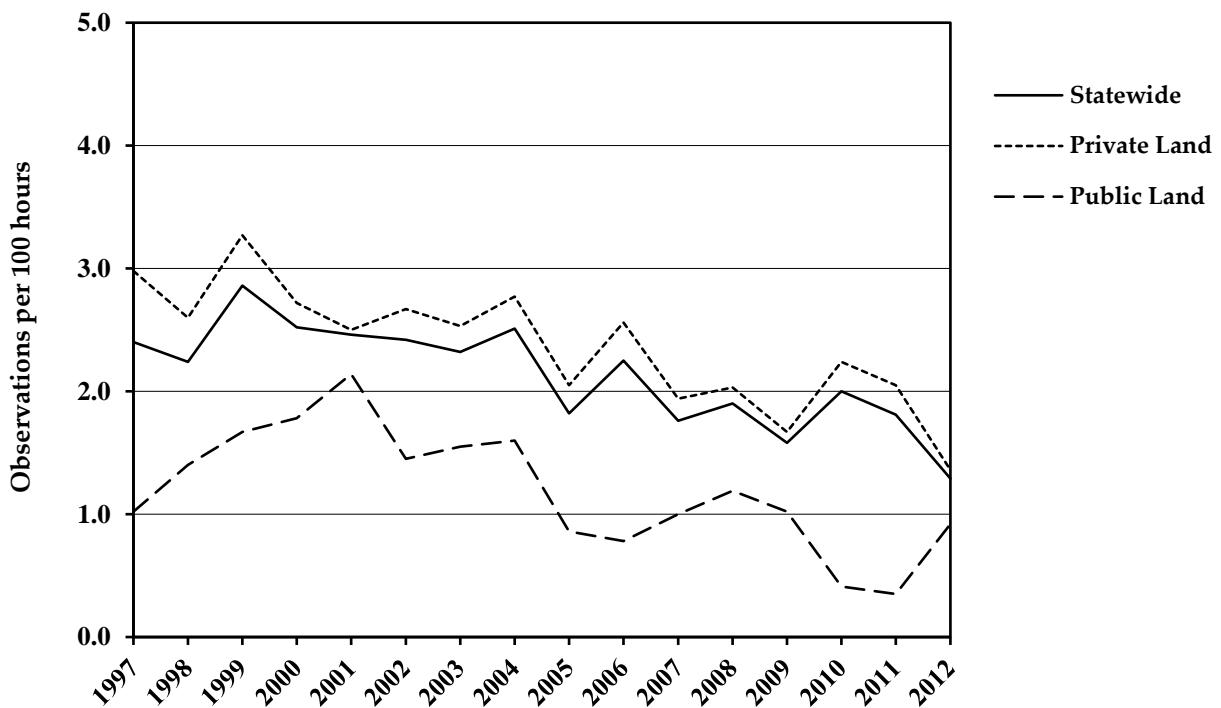


Figure 31. Dogs observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

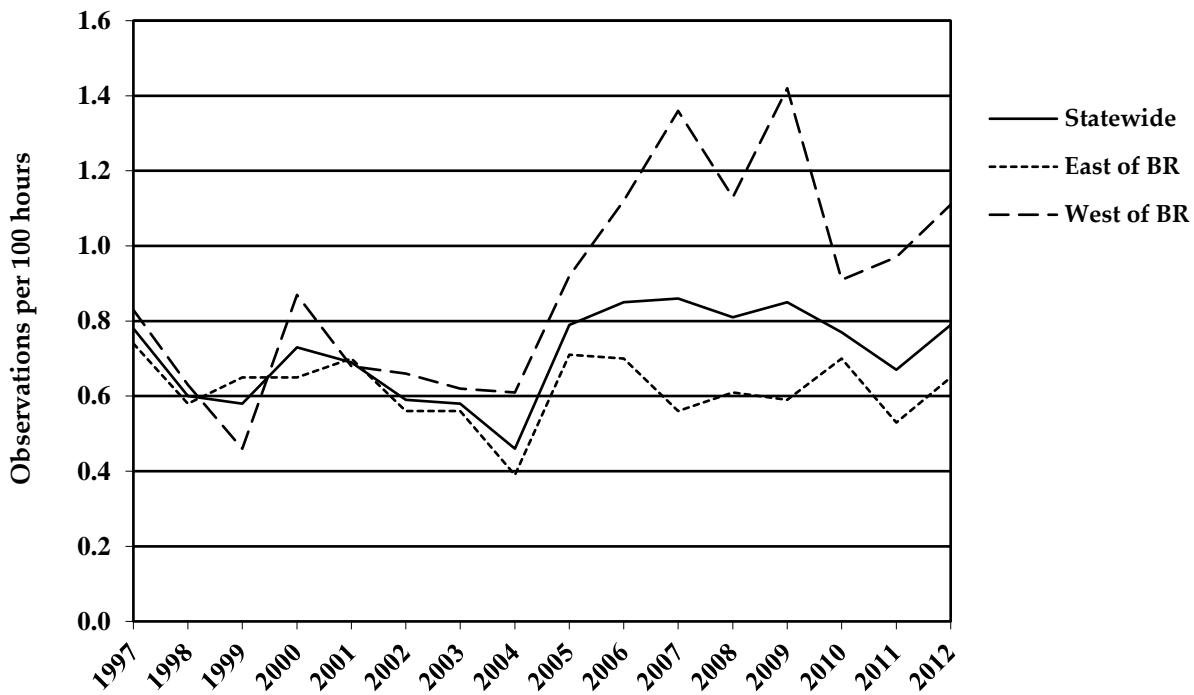


Figure 32. House cats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

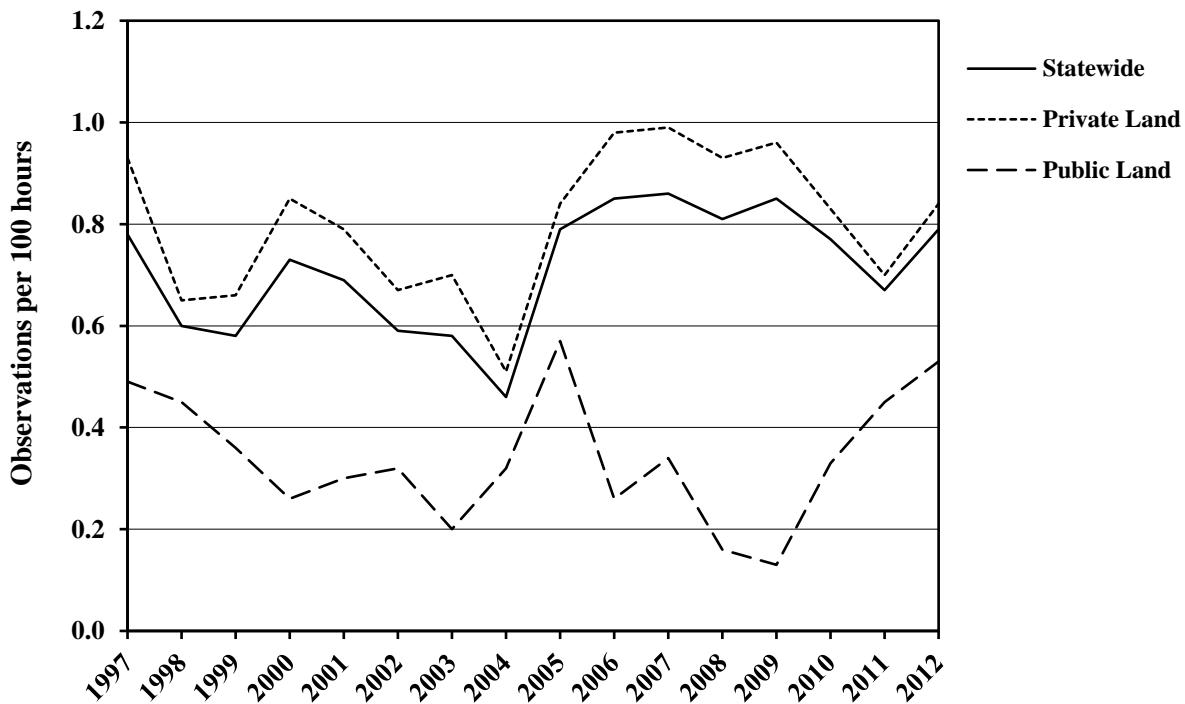


Figure 33. House cats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

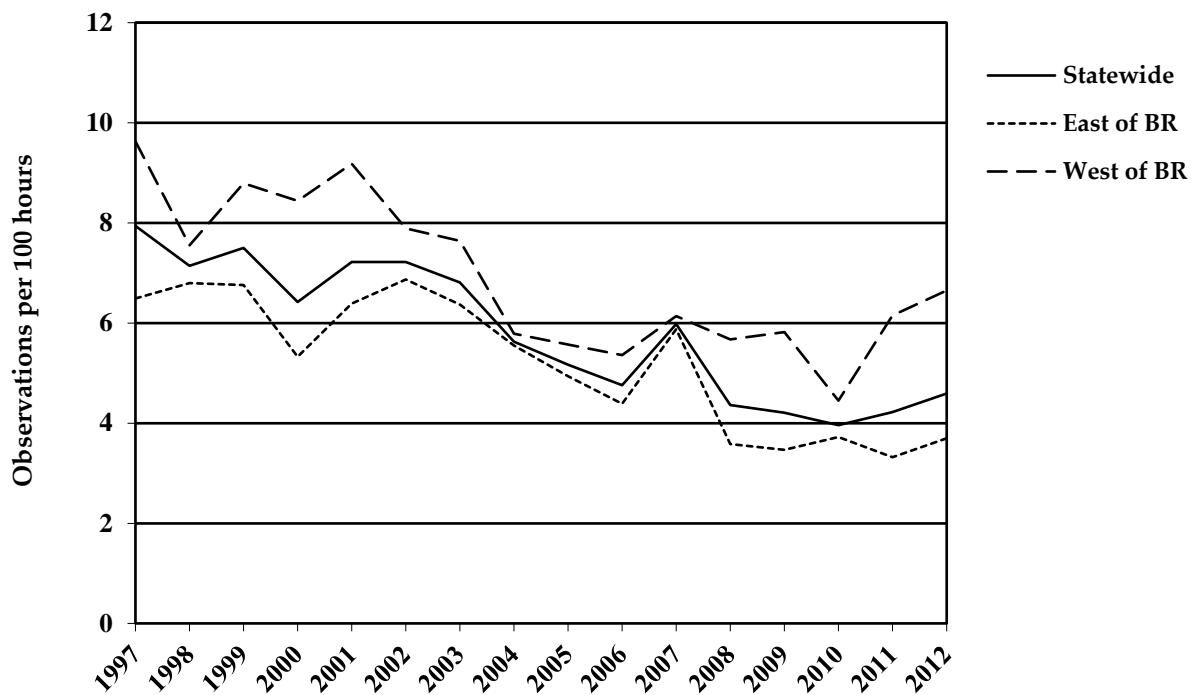


Figure 34. Hunters observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 east and west of the Blue Ridge Mountains and statewide in Virginia.

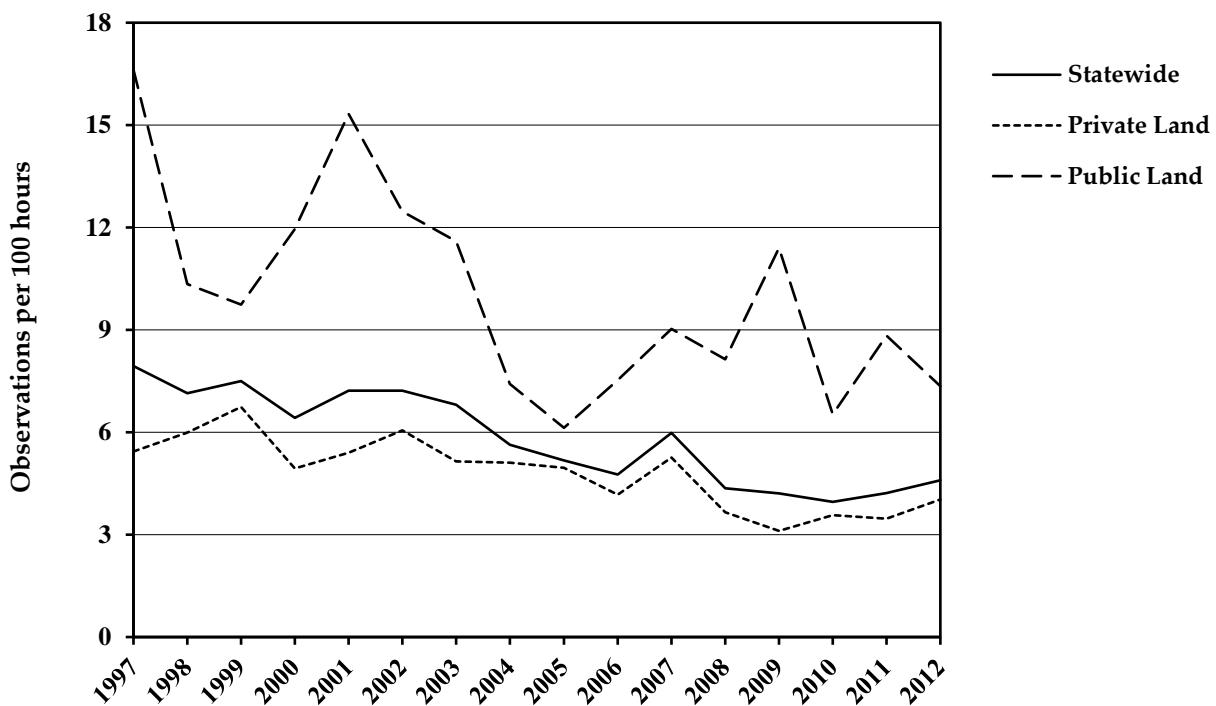


Figure 35. Hunters observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2012 by land ownership and statewide in Virginia.

## **2012 Bowhunter Observation Record**

## *Virginia Department of Game and Inland Fisheries*

Please see instructions on back of form.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City and Zip Code: \_\_\_\_\_

\* **Mast Crop and Weather Codes:**

Mast Crop: 1) none 2) light 3) moderate 4) heavy

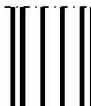
Precipitation: 1) none    2) drizzle    3) moderate    4) heavy

Wind:      1) none    2) light    3) breezy    4) strong

Temperature: 1) <40° F      2) 40-70° F      3) >70° F

## INSTRUCTIONS

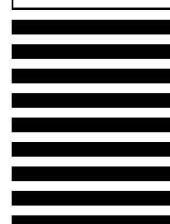
1. If you wish to participate in next years survey, and do not wish to maintain your confidentiality, please fill in your name and address at the top of the form and in the return address box below.
2. Enter *number of hours* for each *date* you hunted **between Oct. 6 and Nov. 16** (early season) **only**.
3. Write in the *county* where you hunted. If you hunted in more than one county on one day, record different counties on different lines of the form.
4. Report whether or not you are hunting on *publicly owned land* (state or federal).
5. Enter the *number* of animals and other hunters you observed while hunting. Begin observations upon leaving your vehicle and end observations when you return to your vehicle.
6. If you saw a species *not listed* at the top of the chart, enter the *name* and *number* of animals in the "Other Animals" column near the right side of the form.
7. On the last four columns of the chart, record the *most conditions* and *average weather* conditions for the time period you hunted. Use the *numbers (codes)* given at the top right corner of the form.
8. *Fold* this form along the lines below so that our address shows, and *tape* it together.
9. Please *mail* this form to us by **January 1, 2013**. *No postage is needed.*



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BOWHUNTER SURVEY  
VA DEPT OF GAME & INLAND FISHERIES  
PO BOX 996  
VERONA VA 24482-9901



Name: _____
Address: _____
City/Town: _____

If you wish to continue to participate in the Virginia Bowhunter Survey, and do not wish to maintain confidentiality, please enter your name and address in the return address box. Thank you.

Name: _____
Address: _____
City/Town: _____

Name: _____
Address: _____
City/Town: _____

**THANK YOU FOR PARTICIPATING!!**

PRINT NAME

Appendix 3. Virginia counties hunted, hunts per county, and percentage of total state hunts per county by cooperating archery hunters 6 October to 16 November 2012 in Virginia.

County	No. Hunts	% of Hunts	County	No. Hunts	% of Hunts
Accomack	16	0.35	King William	120	2.66
Albemarle	90	1.99	Lancaster	44	0.98
Alleghany	0	0.00	Lee	21	0.47
Amelia	43	0.95	Loudoun	54	1.20
Amherst	58	1.29	Louisa	55	1.22
Appomattox	18	0.40	Lunenburg	12	0.27
Augusta	101	2.24	Madison	60	1.33
Bath	15	0.33	Mathews	11	0.24
Bedford	172	3.81	Mecklenburg	44	0.98
Bland	13	0.29	Middlesex	8	0.18
Botetourt	82	1.82	Montgomery	25	0.55
Brunswick	80	1.77	Nelson	36	0.80
Buchanan	1	0.02	New Kent	18	0.40
Buckingham	12	0.27	Northampton	42	0.93
Campbell	19	0.42	Northumberland	35	0.78
Caroline	28	0.62	Nottoway	47	1.04
Carroll	59	1.31	Orange	28	0.62
Charles City	26	0.58	Page	18	0.40
Charlotte	22	0.49	Patrick	37	0.82
Chesapeake	0	0.00	Pittsylvania	93	2.06
Chesterfield	89	1.97	Powhatan	37	0.82
Clarke	20	0.44	Prince Edward	32	0.71
Craig	20	0.44	Prince George	118	2.62
Culpeper	86	1.91	Prince William	35	0.78
Cumberland	28	0.62	Pulaski	20	0.44
Dickenson	11	0.24	Rappahannock	66	1.46
Dinwiddie	119	2.64	Richmond	5	0.11
Essex	18	0.40	Roanoke	68	1.51
Fairfax	131	2.90	Rockbridge	105	2.33
Fauquier	177	3.92	Rockingham	104	2.30
Floyd	52	1.15	Russell	3	0.07
Fluvanna	47	1.04	Scott	9	0.20
Franklin	61	1.35	Shenandoah	176	3.90
Frederick	6	0.13	Smyth	39	0.86
Giles	68	1.51	Southampton	147	3.26
Gloucester	12	0.27	Spotsylvania	31	0.69
Goochland	31	0.69	Stafford	24	0.53
Grayson	36	0.80	Suffolk	13	0.29
Greene	16	0.35	Surry	53	1.17
Greenville	24	0.53	Sussex	93	2.06
Halifax	41	0.91	Tazewell	14	0.31
Hanover	80	1.77	Virginia Beach	19	0.42
Henrico	44	0.98	Warren	22	0.49
Henry	40	0.89	N. News / Hampton	3	0.07
Highland	64	1.42	Washington	62	1.37
Isle of Wight	27	0.60	Westmoreland	77	1.71
James City	3	0.07	Wise	11	0.24
King & Queen	14	0.31	Wythe	43	0.95
King George	55	1.22	York	0	0.00