

Table 1. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters from 4 October to 14 November 2014 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)	2,225	13.18 ± 0.83	13.74 ± 1.11	12.12 ± 1.11	13.88 ± 0.90	7.52 ± 1.34
Deer (doe)	5,167	30.61 ± 1.66	28.28 ± 1.94	35.08 ± 3.01	32.55 ± 1.81	14.87 ± 2.00
Deer (fawn)	2,046	12.12 ± 0.90	10.95 ± 1.00	14.36 ± 1.77	12.88 ± 0.99	6.00 ± 1.42
Deer (unknown)	1,538	9.11 ± 0.68	8.44 ± 0.83	10.39 ± 1.15	9.40 ± 0.73	6.76 ± 1.96
Gray Squirrel	8,390	49.71 ± 2.24	50.64 ± 2.79	47.93 ± 3.70	49.63 ± 2.33	50.40 ± 5.79
Fox Squirrel	711	4.21 ± 0.62	0.56 ± 0.16	11.19 ± 1.50	4.21 ± 0.66	4.27 ± 1.14
Turkey (bearded)	743	4.40 ± 0.51	4.09 ± 0.60	5.00 ± 0.93	4.45 ± 0.56	4.00 ± 1.29
Turkey (no beard)	1,850	10.96 ± 1.17	8.60 ± 1.17	15.46 ± 2.52	10.91 ± 1.13	11.36 ± 4.50
Turkey (unknown)	1,163	6.89 ± 0.95	7.11 ± 1.19	6.46 ± 1.58	7.30 ± 1.06	3.57 ± 1.10
Turkey (total)	3,756	22.25 ± 1.79	19.81 ± 2.01	26.92 ± 3.41	22.66 ± 1.83	18.93 ± 5.86
Grouse	55	0.33 ± 0.08	0.02 ± 0.01	0.91 ± 0.22	0.23 ± 0.07	1.08 ± 0.47
Bear (adult)	96	0.57 ± 0.10	0.23 ± 0.09	1.21 ± 0.22	0.47 ± 0.08	1.41 ± 0.59
Bear (cub)	42	0.25 ± 0.07	0.14 ± 0.08	0.45 ± 0.12	0.20 ± 0.06	0.65 ± 0.31
Bear (total)	138	0.82 ± 0.15	0.38 ± 0.15	1.65 ± 0.31	0.67 ± 0.13	2.05 ± 0.87
Red Fox	149	0.88 ± 0.16	0.98 ± 0.20	0.69 ± 0.23	0.96 ± 0.18	0.27 ± 0.14
Gray Fox	99	0.59 ± 0.20	0.74 ± 0.30	0.29 ± 0.10	0.61 ± 0.22	0.38 ± 0.20
Coyote	110	0.65 ± 0.12	0.63 ± 0.16	0.69 ± 0.16	0.68 ± 0.13	0.43 ± 0.19
Bobcat	28	0.17 ± 0.04	0.18 ± 0.05	0.14 ± 0.05	0.17 ± 0.04	0.11 ± 0.08
Raccoon	226	1.34 ± 0.18	1.42 ± 0.23	1.19 ± 0.26	1.40 ± 0.20	0.81 ± 0.27
Opossum	60	0.36 ± 0.10	0.24 ± 0.07	0.57 ± 0.25	0.39 ± 0.11	0.11 ± 0.07
Striped Skunk	45	0.27 ± 0.05	0.25 ± 0.07	0.29 ± 0.08	0.29 ± 0.06	0.05 ± 0.05
Elk	3	0.02 ± 0.01	0.00 ± 0.00	0.05 ± 0.04	0.02 ± 0.01	0.00 ± 0.00
Feral Hog	2	0.01 ± 0.01	0.00 ± 0.00	0.03 ± 0.03	0.01 ± 0.01	0.00 ± 0.00
Dog	189	1.12 ± 0.25	1.05 ± 0.28	1.26 ± 0.49	1.11 ± 0.25	1.19 ± 0.51
House Cat	96	0.57 ± 0.10	0.46 ± 0.10	0.78 ± 0.23	0.61 ± 0.12	0.22 ± 0.13
Hunter	628	3.72 ± 0.66	3.07 ± 0.65	4.96 ± 1.14	3.19 ± 0.64	8.06 ± 2.50
Total Hunters		337	226	130	319	71
Total Hunts		3,971	2,677	1,294	3,590	381
Total Hours		16,878	11,076	5,802	15,029	1,849
Avg. Hrs. Per Hunt		4.25 ± 0.04	4.14 ± 0.04	4.48 ± 0.07	4.19 ± 0.04	4.85 ± 0.12

Table 2. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters from 4 October to 14 November 2014 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)	14.40 ± 1.19	6.73 ± 1.69	12.81 ± 1.27	8.35 ± 2.14
Deer (doe)	29.45 ± 2.08	15.78 ± 2.71	38.96 ± 3.38	13.91 ± 2.99
Deer (fawn)	11.51 ± 1.07	5.05 ± 1.60	15.71 ± 2.05	7.01 ± 2.35
Deer (unknown)	8.61 ± 0.86	6.63 ± 3.44	11.03 ± 1.33	6.90 ± 1.84
Gray Squirrel	50.53 ± 2.89	51.87 ± 8.92	47.77 ± 3.97	48.85 ± 7.43
Fox Squirrel	0.57 ± 0.17	0.42 ± 0.42	11.71 ± 1.70	8.35 ± 2.03
Turkey (bearded)	3.68 ± 1.49	4.13 ± 0.65	5.12 ± 1.05	4.34 ± 2.16
Turkey (no beard)	8.80 ± 1.27	6.52 ± 1.86	15.28 ± 2.27	16.47 ± 9.02
Turkey (unknown)	7.47 ± 1.29	3.37 ± 1.36	6.95 ± 1.84	3.78 ± 1.78
Turkey (total)	20.39 ± 2.17	13.57 ± 4.38	27.35 ± 3.31	24.59 ± 11.20
Grouse	0.02 ± 0.01	0.00 ± 0.00	0.67 ± 0.20	2.23 ± 0.91
Bear (adult)	0.15 ± 0.04	1.16 ± 0.93	1.12 ± 0.22	1.67 ± 0.74
Bear (cub)	0.11 ± 0.07	0.53 ± 0.51	0.39 ± 0.13	0.78 ± 0.36
Bear (total)	0.26 ± 0.10	1.68 ± 1.44	1.51 ± 0.32	2.45 ± 0.98
Red Fox	1.03 ± 0.22	0.53 ± 0.28	0.82 ± 0.27	0.00 ± 0.00
Gray Fox	0.76 ± 0.33	0.53 ± 0.35	0.31 ± 0.11	0.22 ± 0.16
Coyote	0.68 ± 0.18	0.11 ± 0.11	0.67 ± 0.17	0.78 ± 0.35
Bobcat	0.19 ± 0.06	0.11 ± 0.11	0.14 ± 0.05	0.11 ± 0.11
Raccoon	1.44 ± 0.25	1.16 ± 0.48	1.33 ± 0.31	0.45 ± 0.21
Opossum	0.26 ± 0.08	0.11 ± 0.11	0.65 ± 0.30	0.11 ± 0.11
Striped Skunk	0.28 ± 0.07	0.00 ± 0.00	0.33 ± 0.10	0.11 ± 0.11
Elk	0.00 ± 0.00	0.00 ± 0.00	0.06 ± 0.05	0.00 ± 0.00
Feral Hog	0.00 ± 0.00	0.00 ± 0.00	0.04 ± 0.04	0.00 ± 0.00
Dog	1.00 ± 0.26	1.58 ± 0.79	1.35 ± 0.56	0.78 ± 0.67
House Cat	0.49 ± 0.11	0.11 ± 0.10	0.86 ± 0.27	0.33 ± 0.24
Hunter	2.56 ± 0.58	8.52 ± 4.35	4.49 ± 1.19	7.57 ± 2.43
Total Hunters	213	35	123	37
Total Hunts	2,474	203	1,116	178
Total Hours	10,126	950	4,903	899
Avg. Hrs. Per Hunt	4.09 ± 0.04	4.68 ± 0.16	4.39 ± 0.07	5.05 ± 0.19

Table 3. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters from 4 October to 14 November 2014 within geographic regions of Virginia.

Animal	<u>Animals Seen/ 100 hrs. ± SE</u>				
	Tidewater	S. Piedmont	N. Piedmont	S. Mountain	N. Mountain
Deer (antlered)	11.01 ± 1.22	15.99 ± 2.94	14.92 ± 1.75	12.47 ± 1.74	11.73 ± 1.32
Deer (doe)	21.97 ± 2.65	28.46 ± 3.13	34.53 ± 3.97	35.87 ± 4.41	34.19 ± 4.08
Deer (fawn)	9.00 ± 1.62	9.47 ± 2.02	13.97 ± 1.60	11.36 ± 2.61	17.73 ± 2.25
Deer (unknown)	7.57 ± 1.47	7.42 ± 1.09	10.05 ± 1.53	9.93 ± 1.51	10.92 ± 1.76
Gray Squirrel	49.69 ± 4.31	44.65 ± 4.87	55.82 ± 5.05	51.39 ± 8.57	44.04 ± 4.70
Fox Squirrel	0.02 ± 0.02	0.87 ± 0.34	0.88 ± 0.35	10.58 ± 1.85	11.87 ± 2.42
Turkey (bearded)	4.51 ± 1.17	5.29 ± 1.10	2.82 ± 0.80	7.65 ± 1.58	2.02 ± 0.63
Turkey (no beard)	13.77 ± 2.23	7.45 ± 1.44	4.19 ± 1.52	20.54 ± 4.15	9.75 ± 2.39
Turkey (unknown)	9.24 ± 2.70	5.96 ± 1.74	5.78 ± 1.27	10.19 ± 2.79	2.27 ± 0.79
Turkey (total)	27.52 ± 4.19	18.70 ± 2.94	12.79 ± 2.22	38.37 ± 5.41	14.03 ± 2.87
Grouse	0.00 ± 0.00	0.07 ± 0.05	0.00 ± 0.00	1.40 ± 0.38	0.37 ± 0.15
Bear (adult)	0.05 ± 0.05	0.28 ± 0.11	0.39 ± 0.23	1.40 ± 0.34	0.99 ± 0.26
Bear (cub)	0.00 ± 0.00	0.28 ± 0.22	0.20 ± 0.14	0.52 ± 0.16	0.37 ± 0.18
Bear (total)	0.05 ± 0.05	0.56 ± 0.31	0.59 ± 0.35	1.92 ± 0.46	1.36 ± 0.40
Red Fox	0.19 ± 0.08	0.45 ± 0.20	2.16 ± 0.51	0.46 ± 0.14	0.95 ± 0.45
Gray Fox	0.90 ± 0.22	0.24 ± 0.08	0.93 ± 0.79	0.16 ± 0.11	0.44 ± 0.16
Coyote	0.36 ± 0.16	1.15 ± 0.48	0.54 ± 0.23	0.85 ± 0.25	0.51 ± 0.17
Bobcat	0.24 ± 0.11	0.21 ± 0.10	0.10 ± 0.05	0.13 ± 0.06	0.15 ± 0.07
Raccoon	1.99 ± 0.47	0.56 ± 0.23	1.45 ± 0.37	1.11 ± 0.38	1.28 ± 0.36
Opossum	0.51 ± 0.19	0.03 ± 0.03	0.12 ± 0.05	0.98 ± 0.47	0.11 ± 0.08
Striped Skunk	0.12 ± 0.07	0.17 ± 0.09	0.44 ± 0.15	0.42 ± 0.14	0.15 ± 0.09
Elk	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.10 ± 0.07	0.00 ± 0.00
Feral Hog	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.07 ± 0.06	0.00 ± 0.00
Dog	0.51 ± 0.17	1.78 ± 0.91	1.08 ± 0.33	1.99 ± 0.87	0.44 ± 0.31
House Cat	0.22 ± 0.08	0.52 ± 0.21	0.66 ± 0.23	1.33 ± 0.42	0.15 ± 0.07
Hunter	2.04 ± 0.68	4.18 ± 1.60	3.33 ± 1.12	5.63 ± 1.34	4.21 ± 1.89
Total Hunters	79	72	102	72	59
Total Hunts	971	705	1,001	637	657
Total Hours	4,124	2,871	4,081	3,073	2,729
Avg. Hrs. Per Hunt	4.25 ± 0.07	4.07 ± 0.08	4.08 ± 0.07	4.82 ± 0.10	4.15 ± 0.09

Table 4. Observations of selected animals (per 100 hours hunting) by cooperating archery hunters by week from 4 October to 14 November 2014 in Virginia.

Animal	<u>Animals Seen/100 hrs. + SE</u>						
	Day 1 (10/4)	Week 1 (10/5-11)	Week 2 (10/12-18)	Week 3 (10/19-25)	Week 4 (10/26-11/1)	Week 5 (11/2-8)	Week 6 (11/9-14)
Deer (antlered)	9.83 ± 1.38	10.22 ± 1.03	11.24 ± 1.02	14.02 ± 1.14	14.31 ± 1.39	16.62 ± 1.60	14.34 ± 1.52
Deer (doe)	37.29 ± 3.63	34.27 ± 2.83	30.78 ± 2.56	28.73 ± 2.12	28.44 ± 2.10	28.35 ± 2.90	29.96 ± 2.96
Deer (fawn)	17.30 ± 1.89	13.76 ± 1.34	13.50 ± 1.35	11.71 ± 1.29	9.95 ± 1.13	11.48 ± 1.70	9.43 ± 1.55
Deer (unknown)	7.23 ± 1.25	9.53 ± 1.38	9.91 ± 1.10	10.09 ± 1.19	9.05 ± 1.15	8.49 ± 0.98	8.30 ± 1.24
Gray Squirrel	36.80 ± 3.31	43.48 ± 2.66	49.86 ± 3.52	58.46 ± 3.74	48.44 ± 3.06	51.09 ± 4.27	53.94 ± 4.20
Fox Squirrel	3.09 ± 0.63	4.15 ± 0.89	4.37 ± 0.78	5.14 ± 0.97	4.18 ± 0.92	3.99 ± 1.11	3.88 ± 0.95
Turkey (bearded)	5.69 ± 1.45	2.82 ± 0.57	4.14 ± 0.86	6.90 ± 1.44	3.68 ± 0.77	4.10 ± 1.05	4.18 ± 1.25
Turkey (no beard)	14.05 ± 3.78	9.53 ± 2.03	13.19 ± 2.63	10.72 ± 2.18	10.81 ± 2.02	11.33 ± 2.05	8.25 ± 2.46
Turkey (unknown)	8.85 ± 4.38	6.75 ± 1.36	5.58 ± 1.14	8.81 ± 1.95	7.53 ± 2.05	5.22 ± 1.33	6.39 ± 1.86
Turkey (total)	28.60 ± 6.19	19.10 ± 2.69	22.90 ± 3.19	26.42 ± 3.81	22.02 ± 3.04	20.65 ± 2.90	18.81 ± 3.52
Grouse	0.57 ± 0.24	0.25 ± 0.10	0.12 ± 0.09	0.26 ± 0.11	0.32 ± 0.15	0.29 ± 0.14	0.69 ± 0.29
Bear (adult)	0.97 ± 0.32	0.79 ± 0.24	0.90 ± 0.22	0.62 ± 0.16	0.18 ± 0.08	0.40 ± 0.15	0.29 ± 0.17
Bear (cub)	0.73 ± 0.39	0.22 ± 0.11	0.11 ± 0.09	0.44 ± 0.19	0.25 ± 0.17	0.14 ± 0.11	0.05 ± 0.05
Bear (total)	1.71 ± 0.64	1.01 ± 0.31	1.01 ± 0.25	1.06 ± 0.31	0.43 ± 0.22	0.54 ± 0.20	0.34 ± 0.17
Red Fox	0.89 ± 0.26	0.83 ± 0.25	1.17 ± 0.40	0.73 ± 0.20	0.76 ± 0.20	0.79 ± 0.25	1.08 ± 0.32
Gray Fox	0.49 ± 0.23	0.65 ± 0.35	0.66 ± 0.32	0.95 ± 0.41	0.47 ± 0.16	0.54 ± 0.25	0.20 ± 0.10
Coyote	0.65 ± 0.23	0.69 ± 0.19	0.78 ± 0.29	0.84 ± 0.31	0.76 ± 0.25	0.36 ± 0.18	0.44 ± 0.16
Bobcat	0.16 ± 0.11	0.14 ± 0.09	0.16 ± 0.09	0.07 ± 0.05	0.14 ± 0.07	0.18 ± 0.09	0.34 ± 0.14

Table 4 (continued). Observations of selected animals (per 100 hours of hunting) by cooperating archery hunters by week from 4 October to 14 November 2014 in Virginia.

Animal	<u>Animals Seen/100 hrs. + SE</u>						
	Day 1 (10/4)	Week 1 (10/5-11)	Week 2 (10/12-18)	Week 3 (10/19-25)	Week 4 (10/26-11/1)	Week 5 (11/2-8)	Week 6 (11/9-14)
Raccoon	1.62 ± 0.67	1.73 ± 0.50	1.17 ± 0.33	1.32 ± 0.35	1.44 ± 0.32	0.94 ± 0.25	1.28 ± 0.38
Opossum	0.49 ± 0.20	0.33 ± 0.16	0.31 ± 0.13	0.26 ± 0.11	0.22 ± 0.10	0.50 ± 0.22	0.49 ± 0.19
Striped Skunk	0.24 ± 0.14	0.43 ± 0.13	0.27 ± 0.10	0.22 ± 0.09	0.22 ± 0.13	0.25 ± 0.13	0.20 ± 0.10
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	0.15 ± 0.01
Feral Hog	0.00 ± 0.00	0.00 ± 0.00	0.03 ± 0.00	0.00 ± 0.00	0.07 ± 0.07	0.00 ± 0.00	0.00 ± 0.00
Dog	1.38 ± 0.47	1.66 ± 0.50	0.78 ± 0.28	1.17 ± 0.40	0.54 ± 0.23	0.83 ± 0.31	1.77 ± 0.51
House Cat	0.49 ± 0.23	0.69 ± 0.21	0.51 ± 0.17	0.70 ± 0.19	0.58 ± 0.20	0.43 ± 0.17	0.54 ± 0.19
Hunter	5.52 ± 1.12	3.50 ± 0.79	2.22 ± 0.45	2.97 ± 0.58	3.82 ± 0.81	5.83 ± 2.00	2.80 ± 0.69
Total Hunters	227	282	269	267	252	196	161
Total Hunts	236	713	665	678	666	589	424
Total Hours	1,231	2,769	2,563	2,725	2,775	2,779	2,036
Avg. Hrs. Per Hunt	5.22 ± 0.15	3.88 ± 0.08	3.85 ± 0.08	4.02 ± 0.08	4.17 ± 0.09	4.72 ± 0.11	4.80 ± 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 4 October to 14 November 2014.

(a)

Ratio	Statewide	East of BR	West of BR
Doe: Buck	2.32	2.06	2.89
Fawn: Doe	0.40	0.39	0.41

(b)

Ratio	Private	Public
Doe: Buck	2.35	1.98
Fawn: Doe	0.40	0.40

(c)

Ratio	Tidewater	S. Piedmont	N. Piedmont	S. Mountain	N. Mountain
Doe: Buck	2.00	1.78	2.31	2.88	2.92
Fawn: Doe	0.41	0.33	0.40	0.32	0.52

(d)

Ratio	Day 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Doe: Buck	3.79	3.35	2.74	2.05	1.99	1.71	2.09
Fawn: Doe	0.46	0.40	0.44	0.41	0.35	0.40	0.31

Table 6. Statewide total observations and total observations per 100 hunts of miscellaneous animals by cooperating archery hunters 4 October to 14 November 2014 in Virginia.

Animal	Total Observations	Observations / 100 Hunts
Bats	3	0.06
Beaver	2	0.04
Buzzard	23	0.49
Chipmunk	37	0.78
Crow	186	3.93
Doves	2	0.04
Ducks	150	3.17
Eagle	43	0.91
Falcon	2	0.04
Flying Squirrels	0	0.00
Geese	315	6.65
Groundhog	24	0.51
Hawk	119	2.51
Herons	4	0.08
Mink	2	0.04
Miscellaneous Birds	116	2.45
Mouse	0	0.00
Muskrat	2	0.04
Nutria	0	0.00
Otter	4	0.08
Owl	40	0.84
Pheasant	0	0.00
Quail	27	0.57
Rabbit	50	1.06
Red Squirrel	1	0.02
Shrew	0	0.00
Sika & Other Deer	0	0.00
Snake	3	0.06
Snipe	0	0.00
Turtles	4	0.08
Weasel	0	0.00
Woodcock	30	0.63

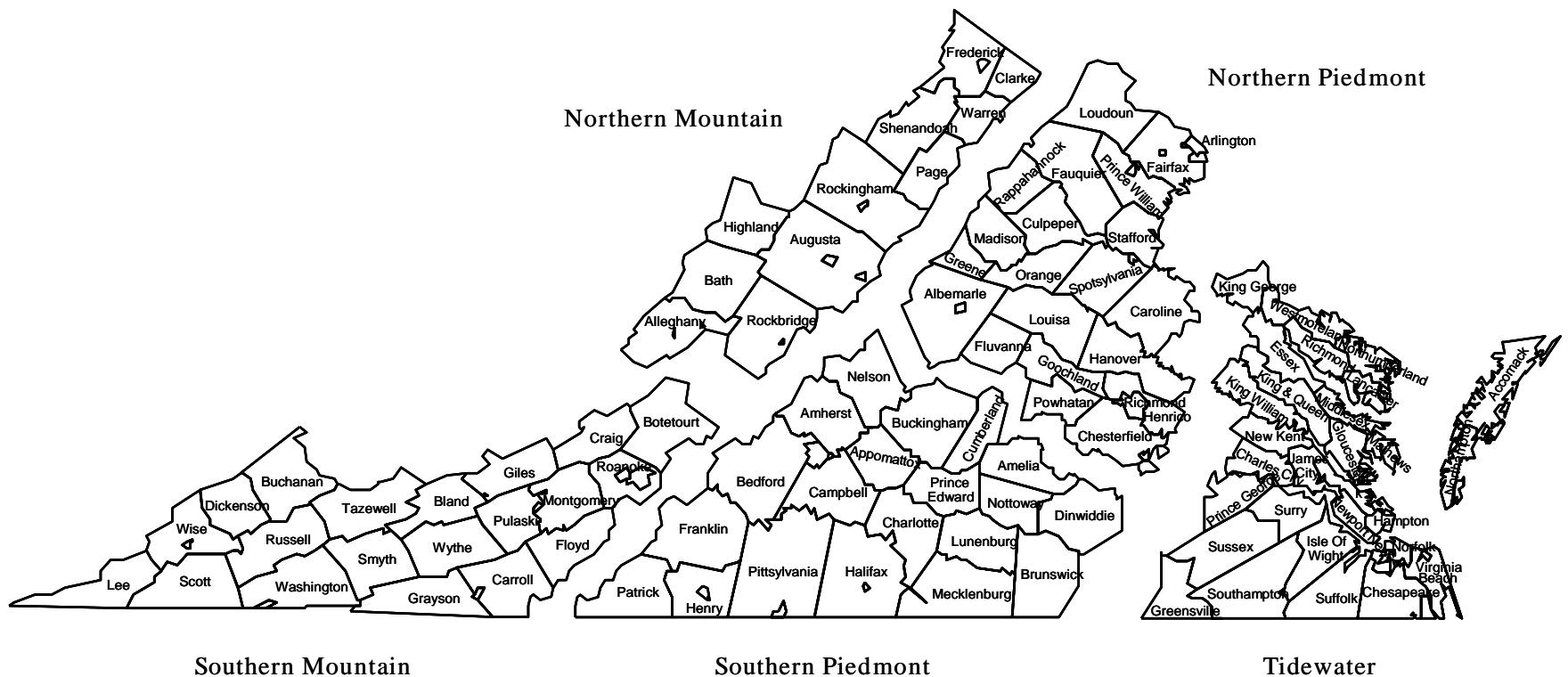


Figure 1. Geographic regions used for analyses in this report.

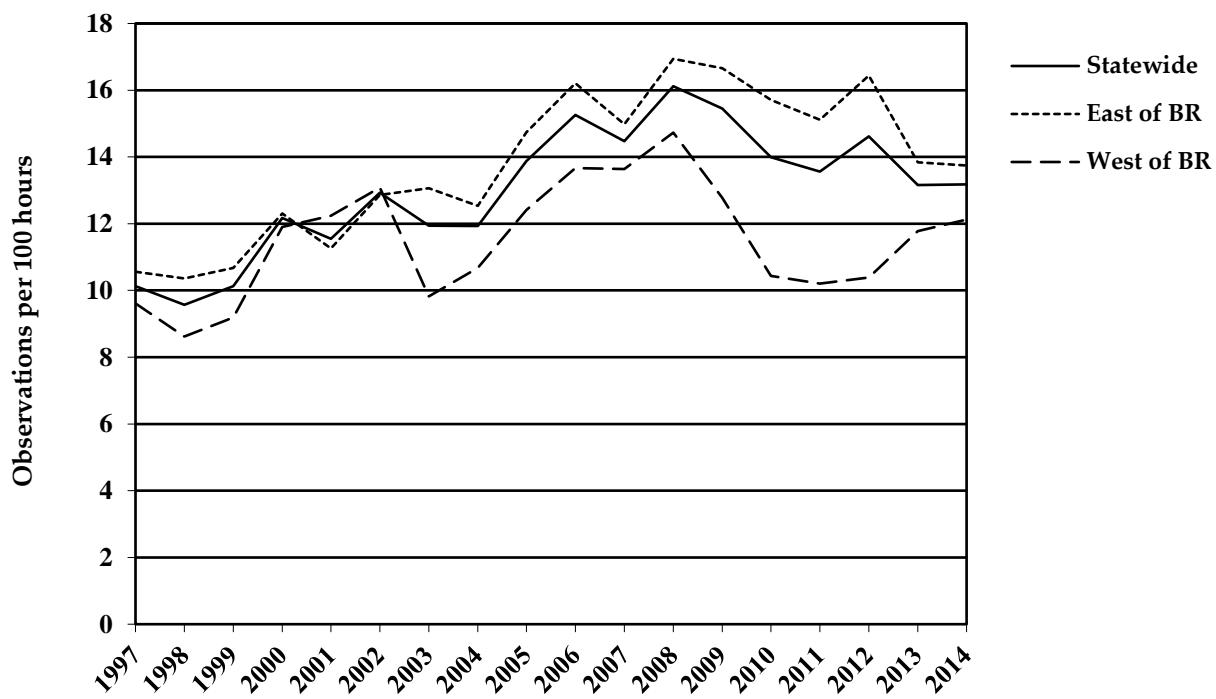


Figure 2. Antlered deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

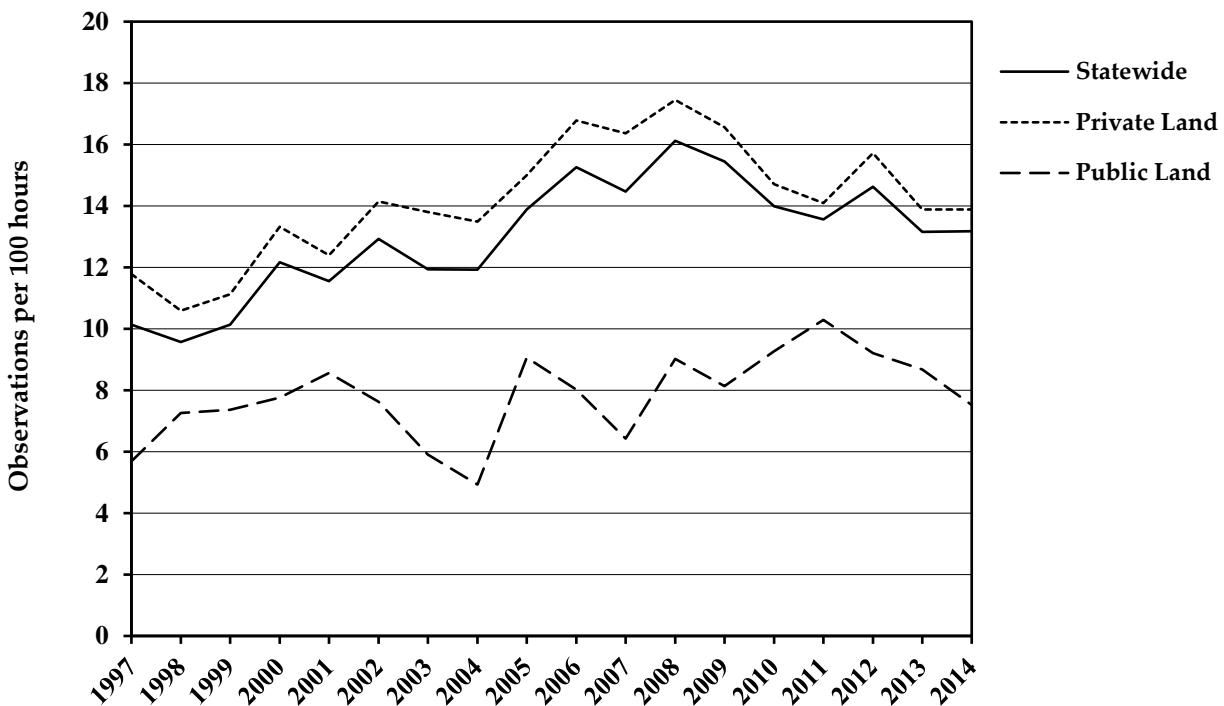


Figure 3. Antlered deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

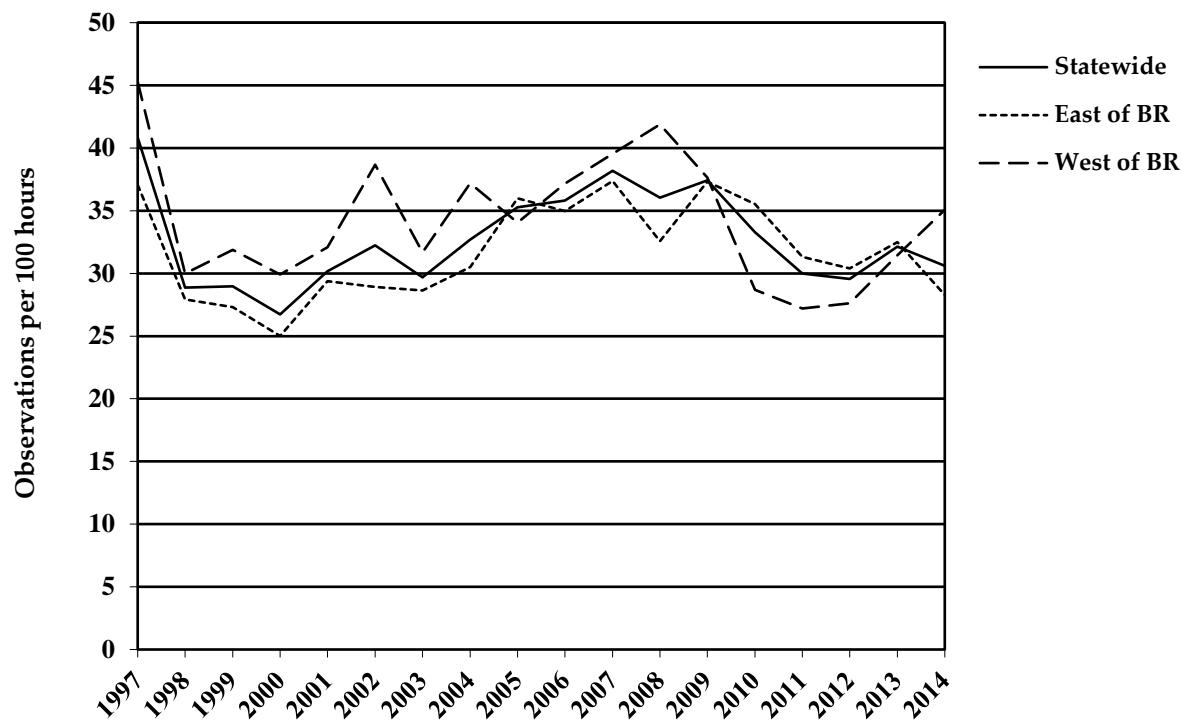


Figure 4. Doe deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

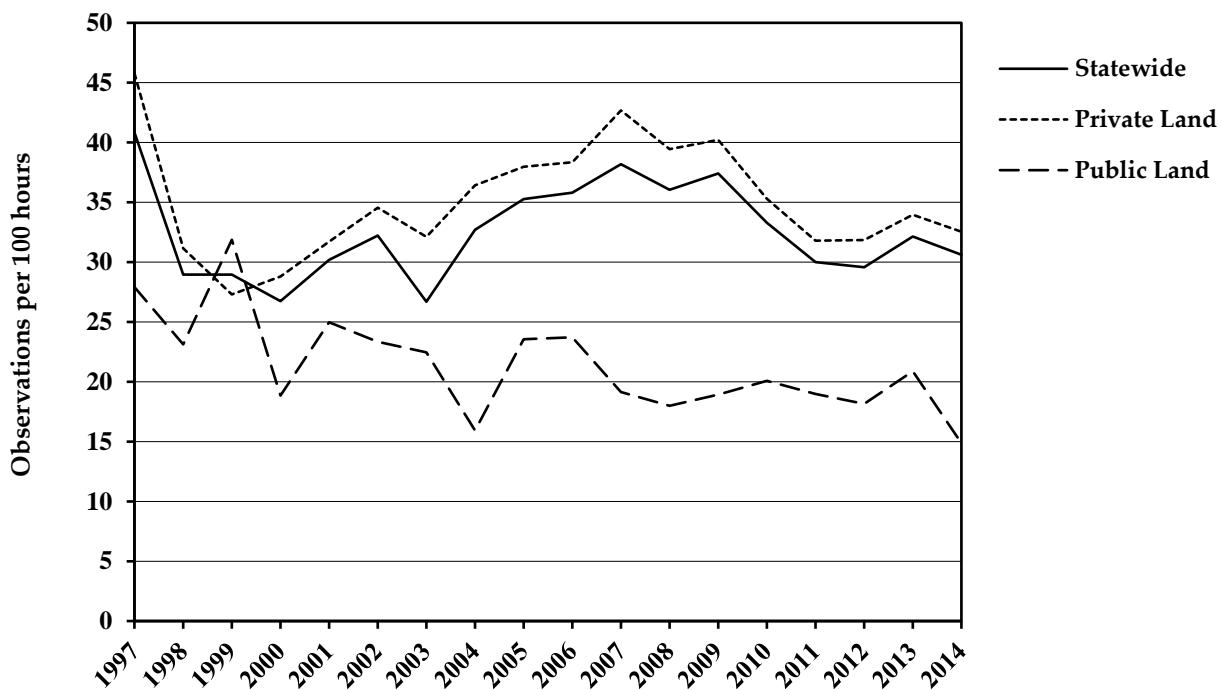


Figure 5. Doe deer observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

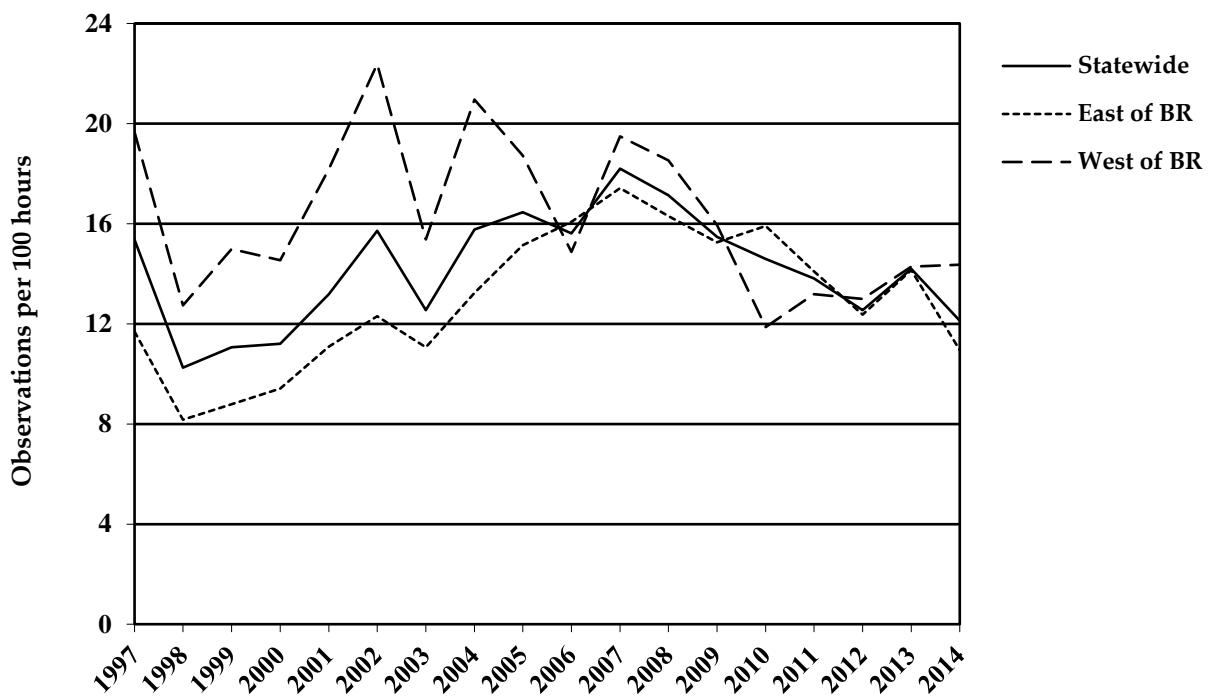


Figure 6. Fawns observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

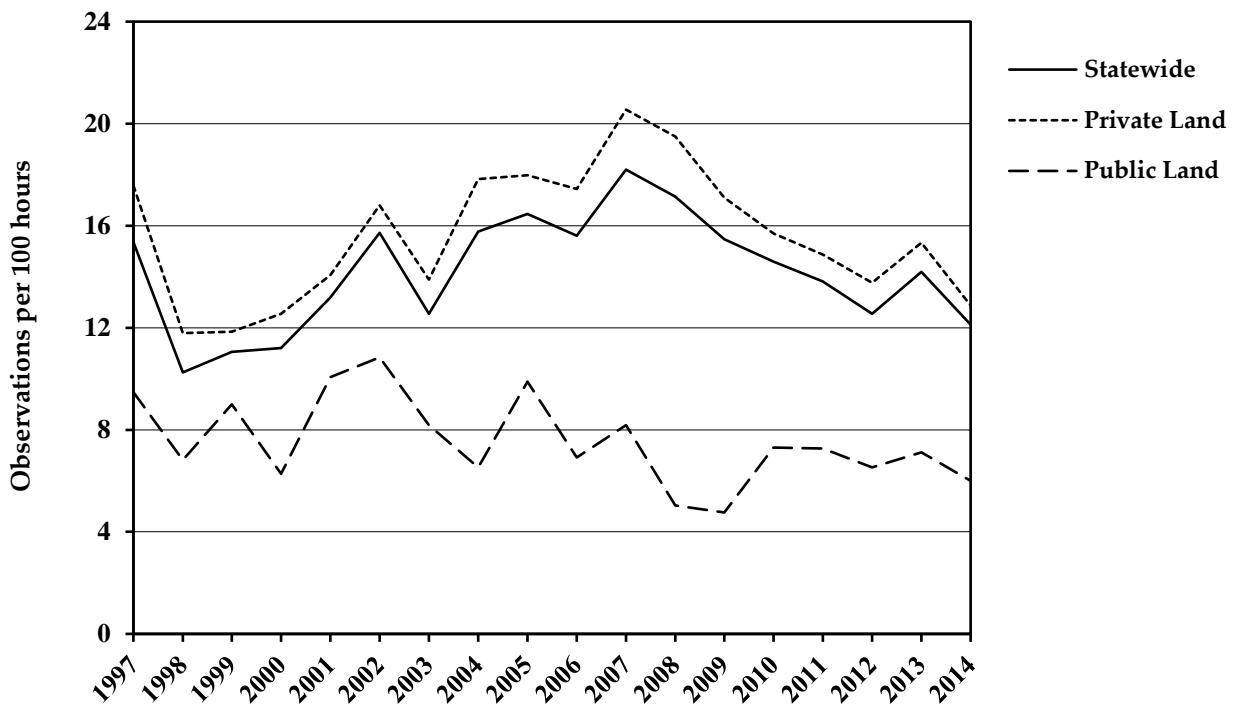


Figure 7. Fawns observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

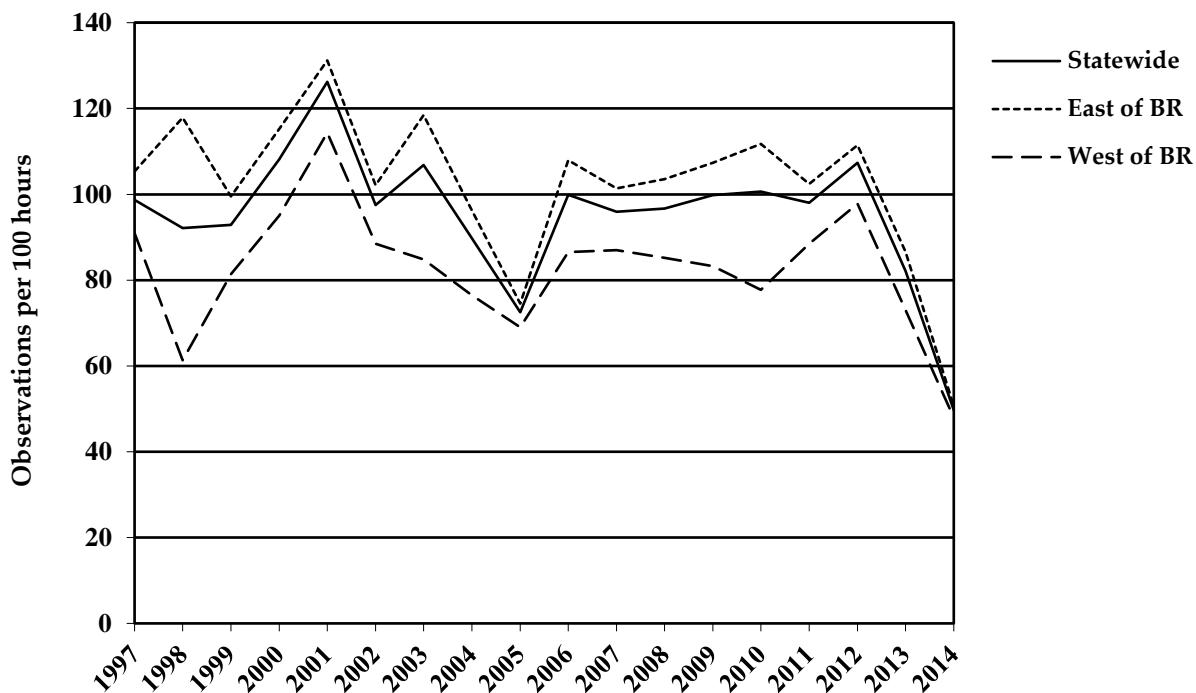


Figure 8. Gray squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

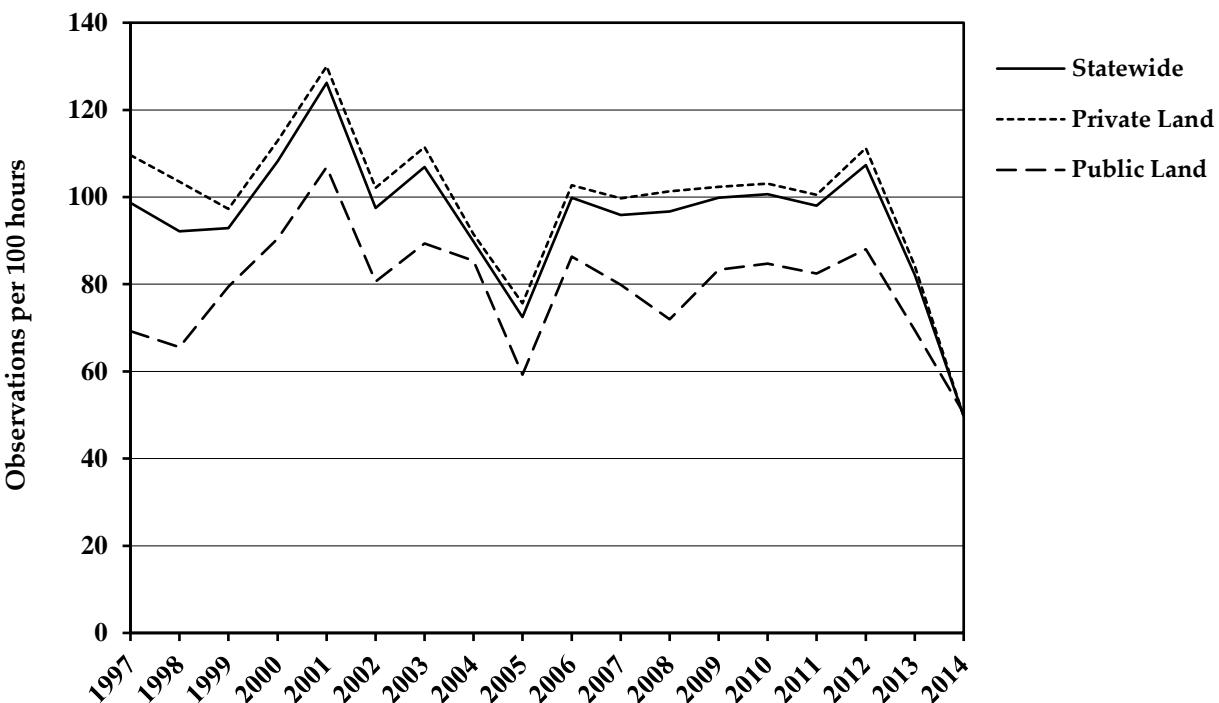


Figure 9. Gray squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

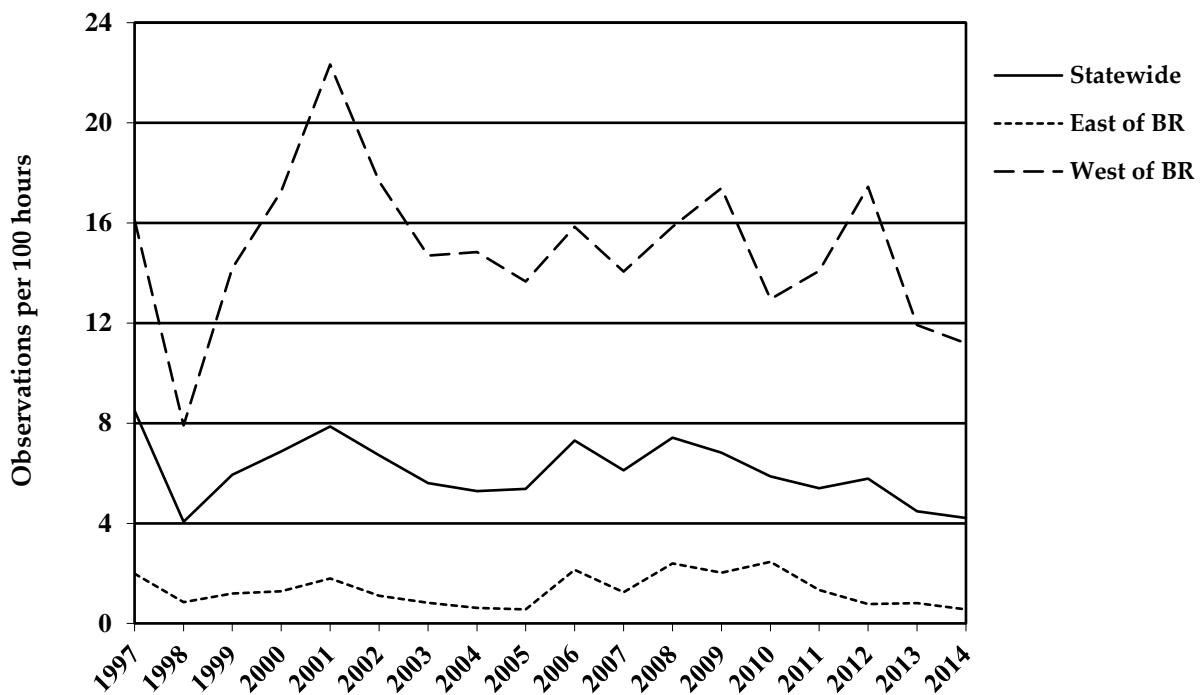


Figure 10. Fox squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

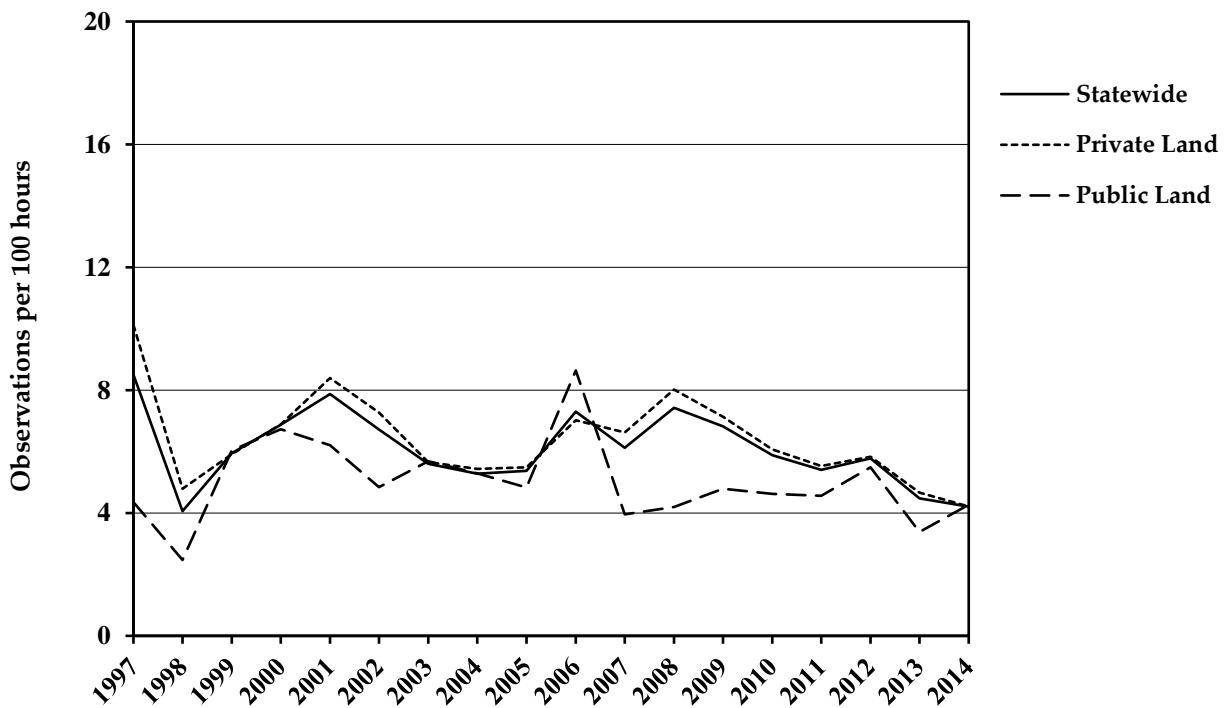


Figure 11. Fox squirrels observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

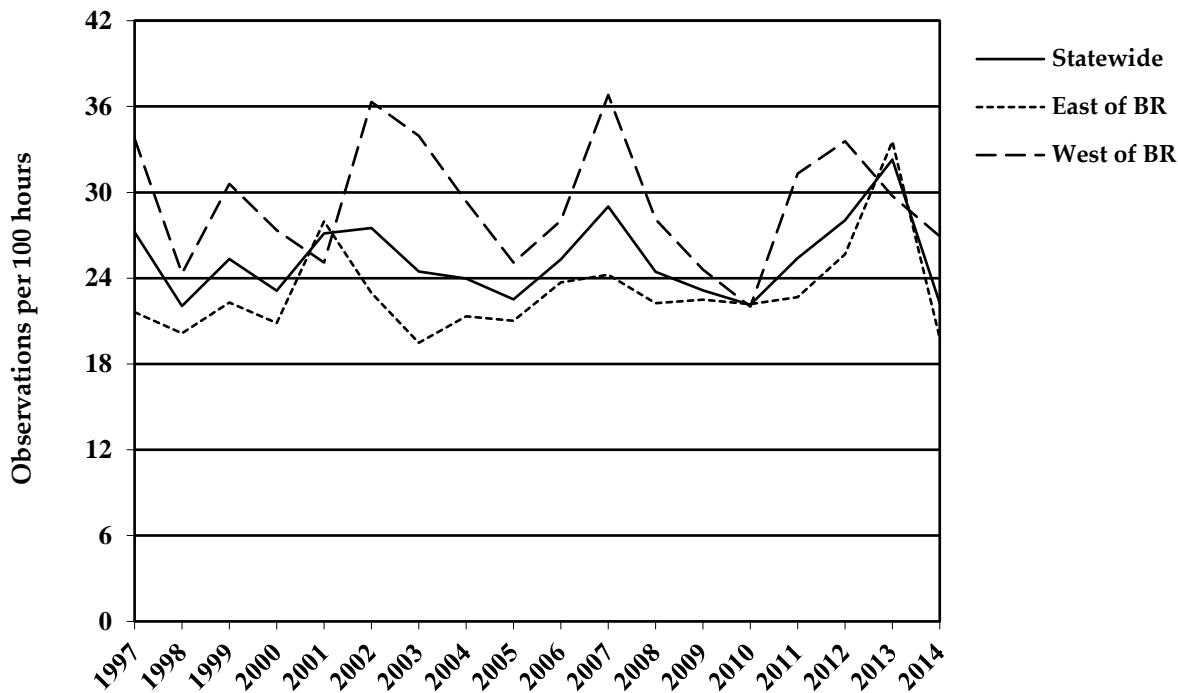


Figure 12. Wild turkeys observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

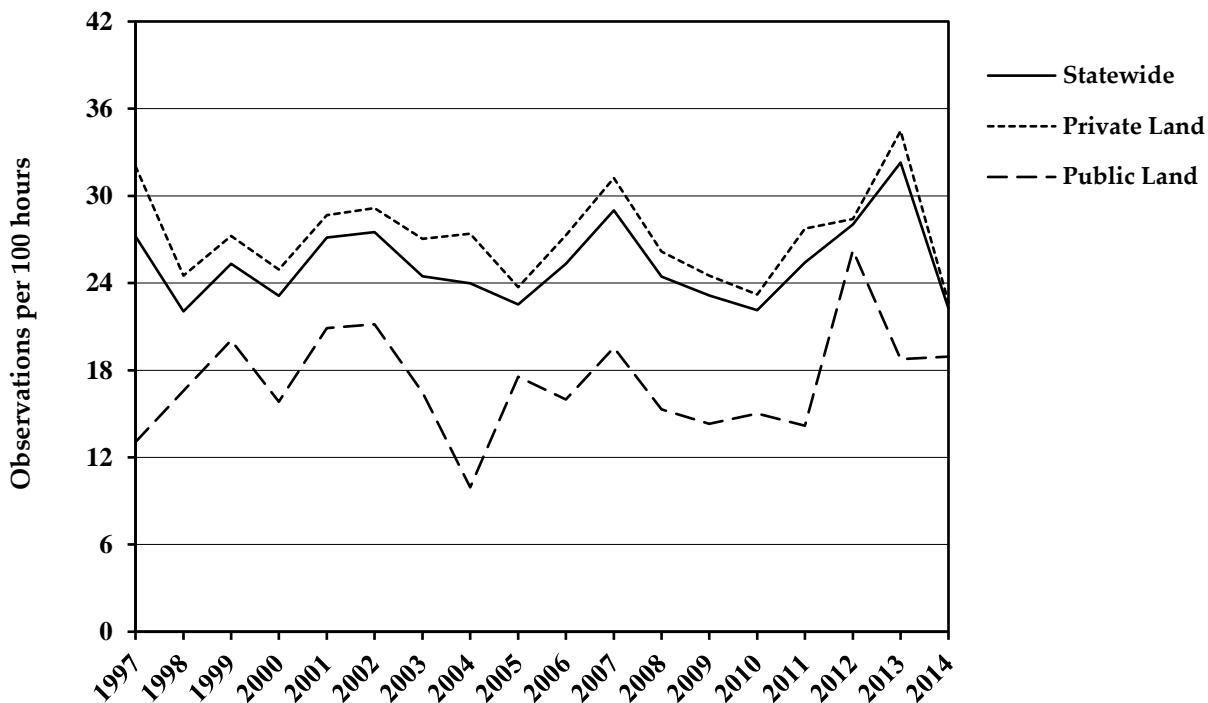


Figure 13. Wild turkeys observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

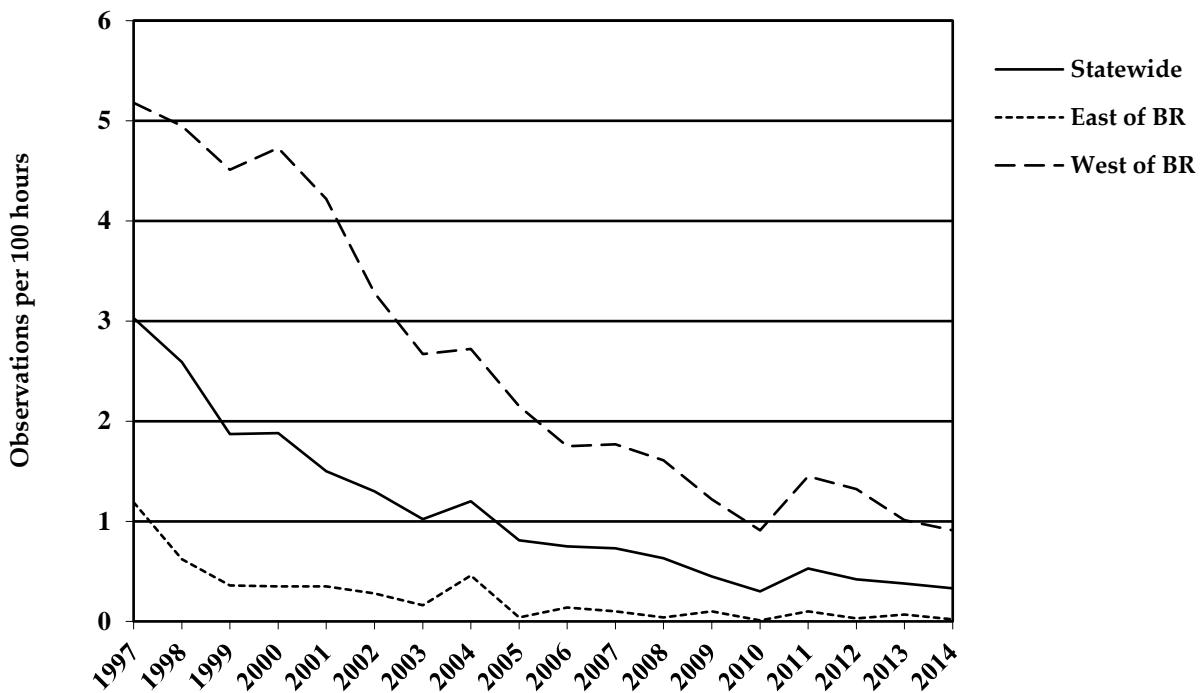


Figure 14. Ruffed grouse observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

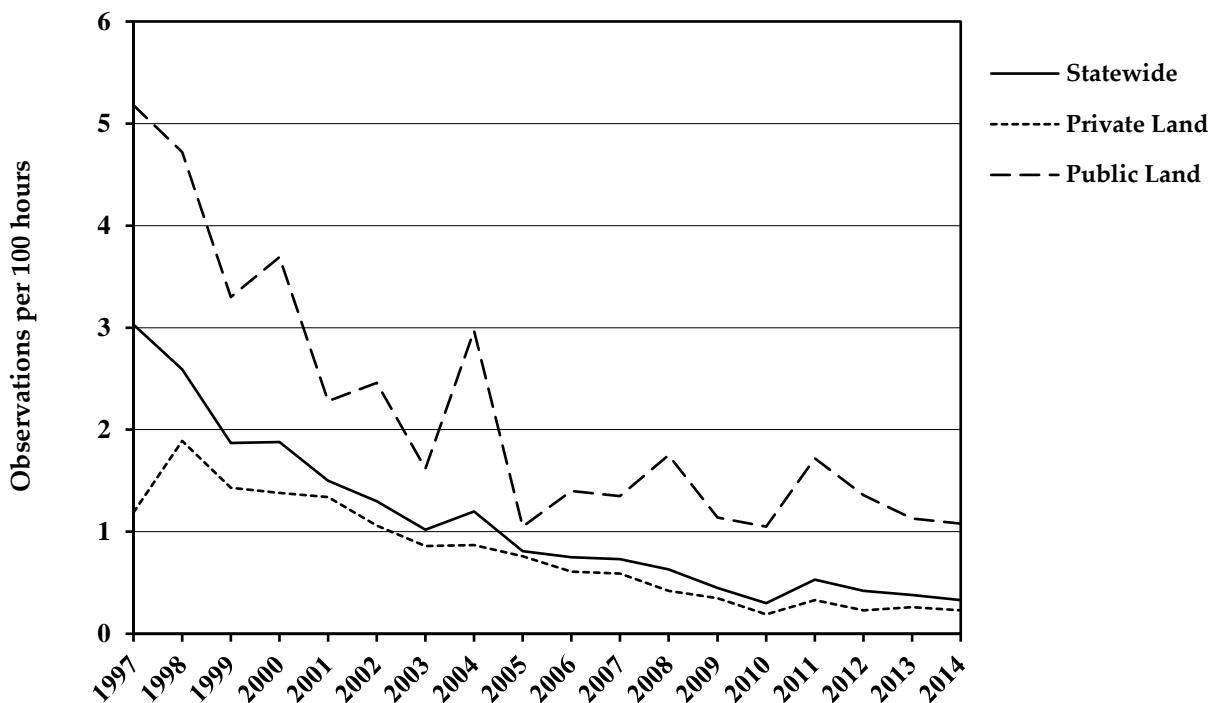


Figure 15. Ruffed grouse observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

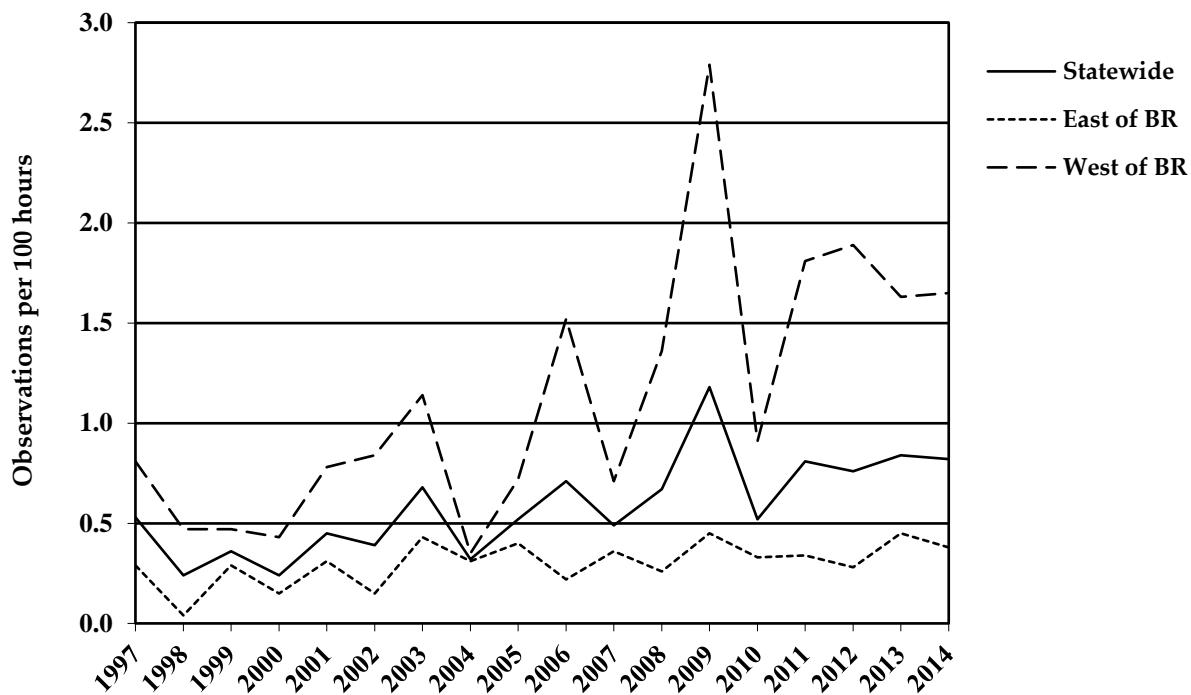


Figure 16. Black bears observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

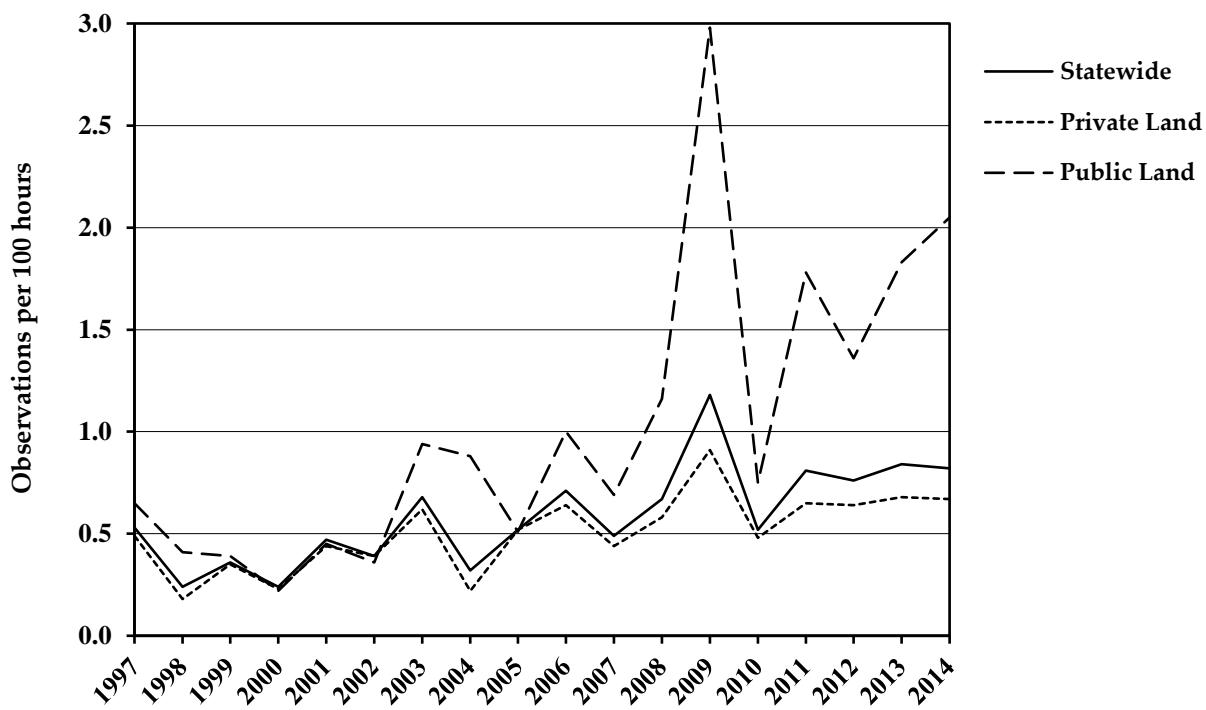


Figure 17. Black bears observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

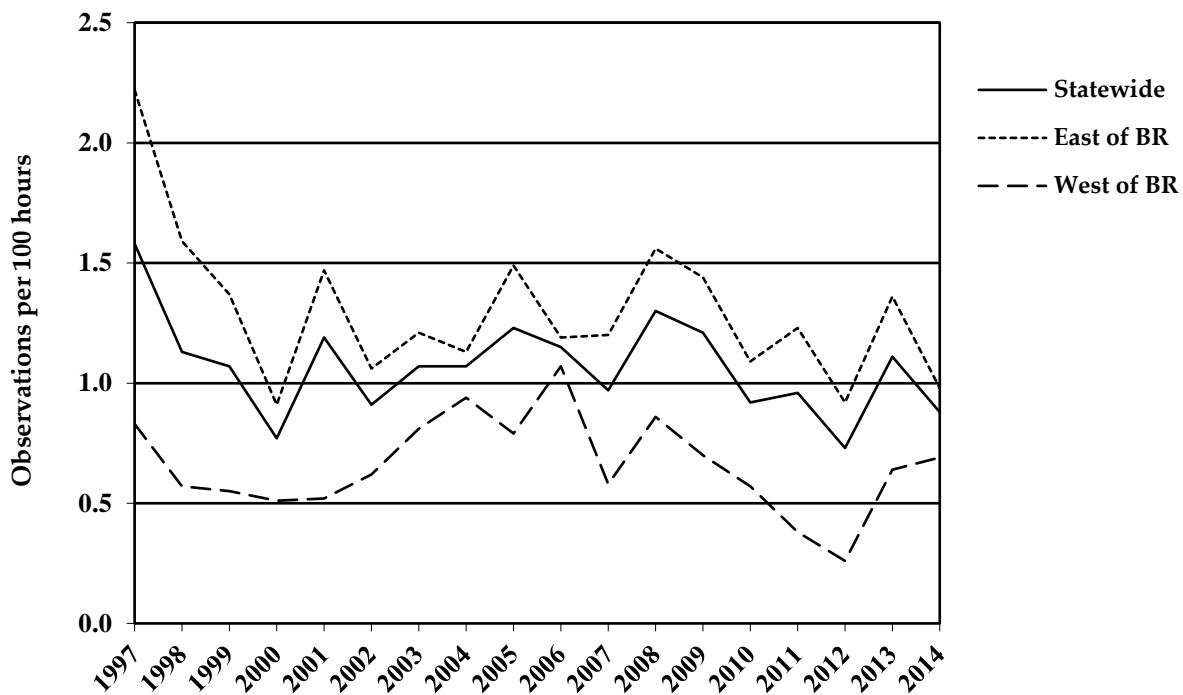


Figure 18. Red foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

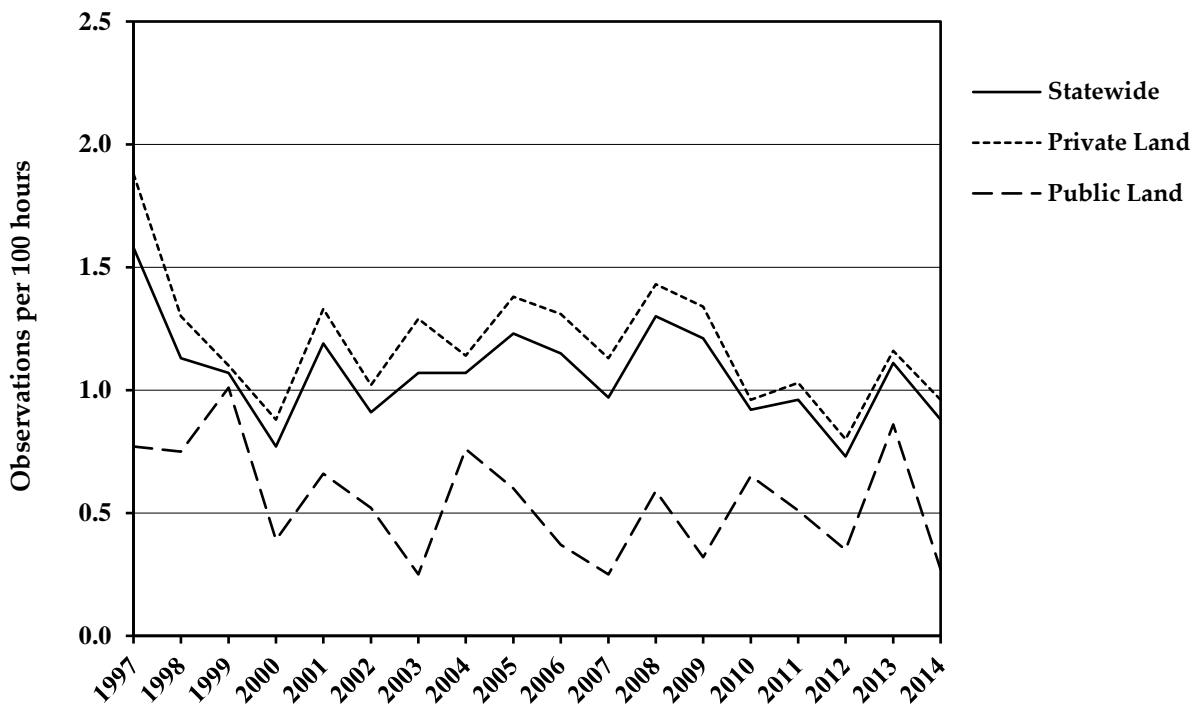


Figure 19. Red foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

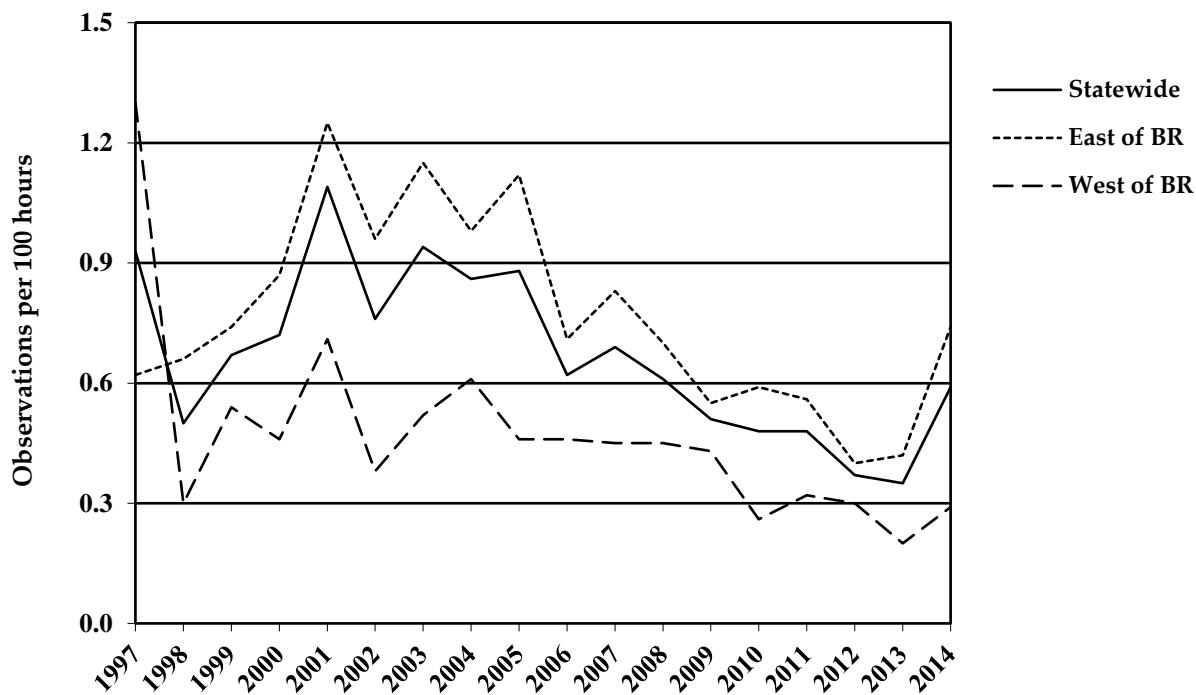


Figure 20. Gray foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.



Figure 21. Gray foxes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

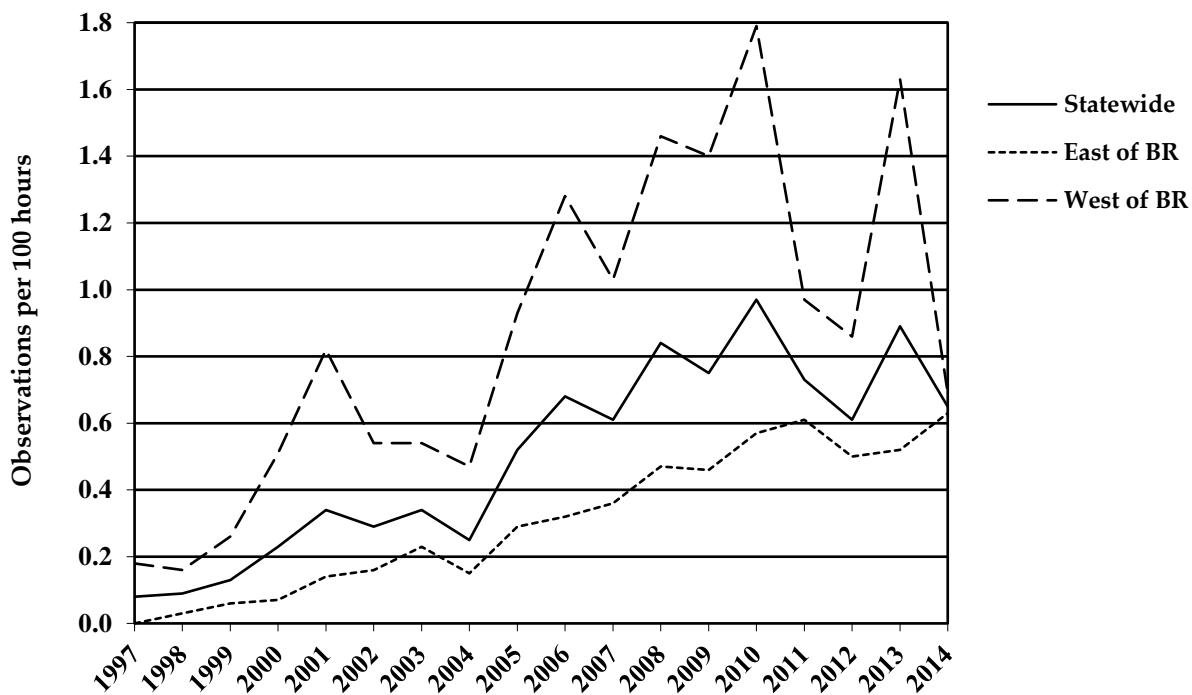


Figure 22. Coyotes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

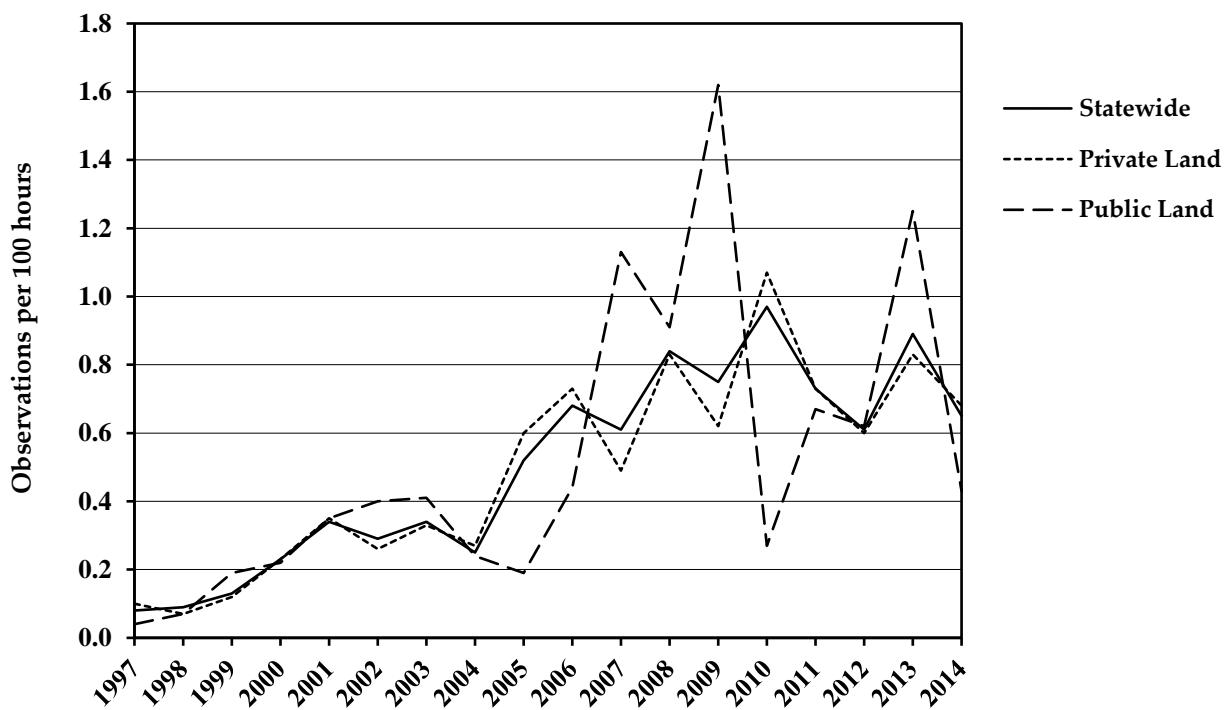


Figure 23. Coyotes observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

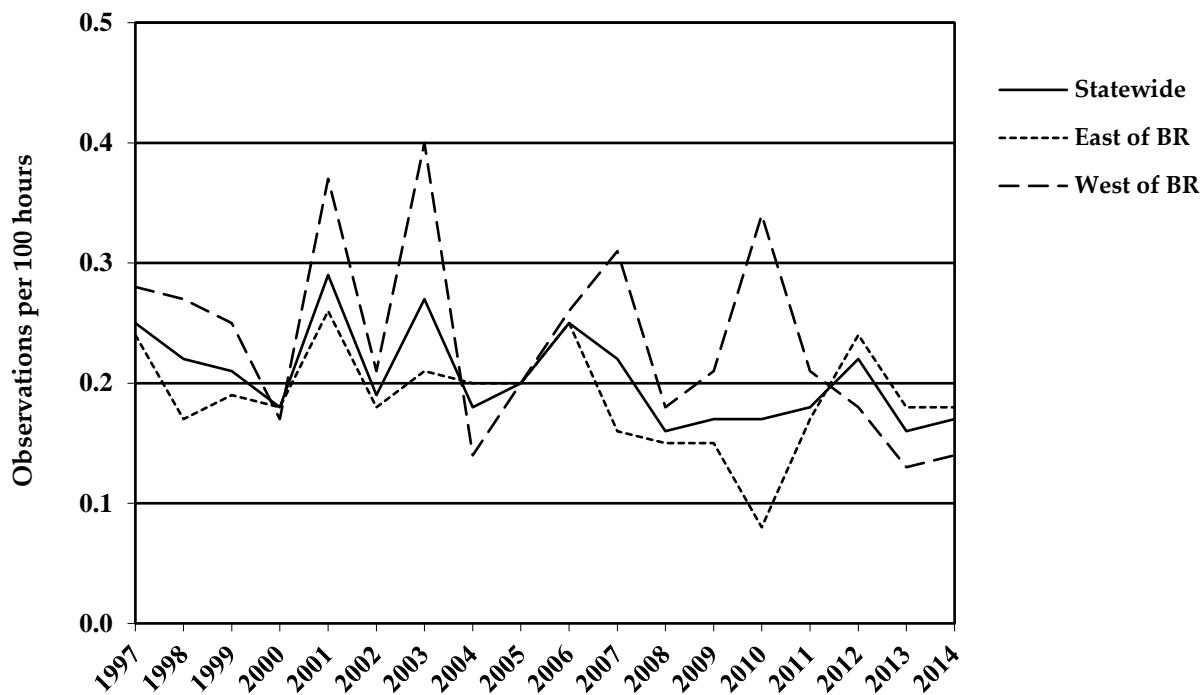


Figure 24. Bobcats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

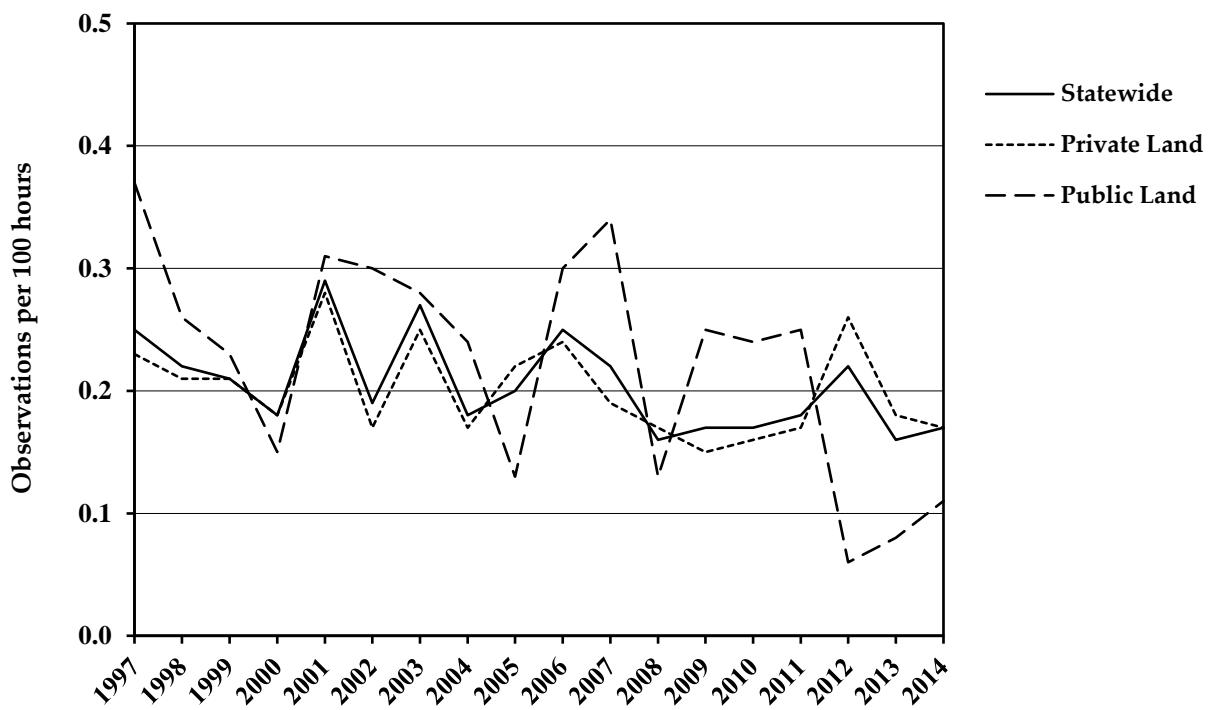


Figure 25. Bobcats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

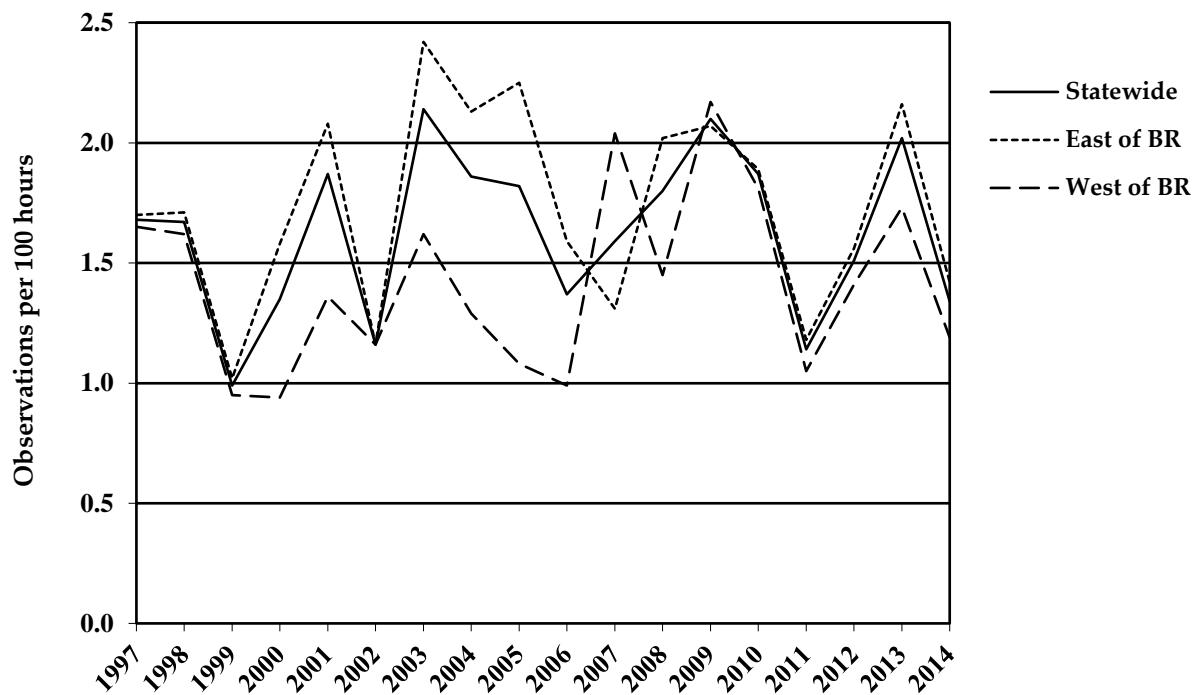


Figure 26. Raccoons observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

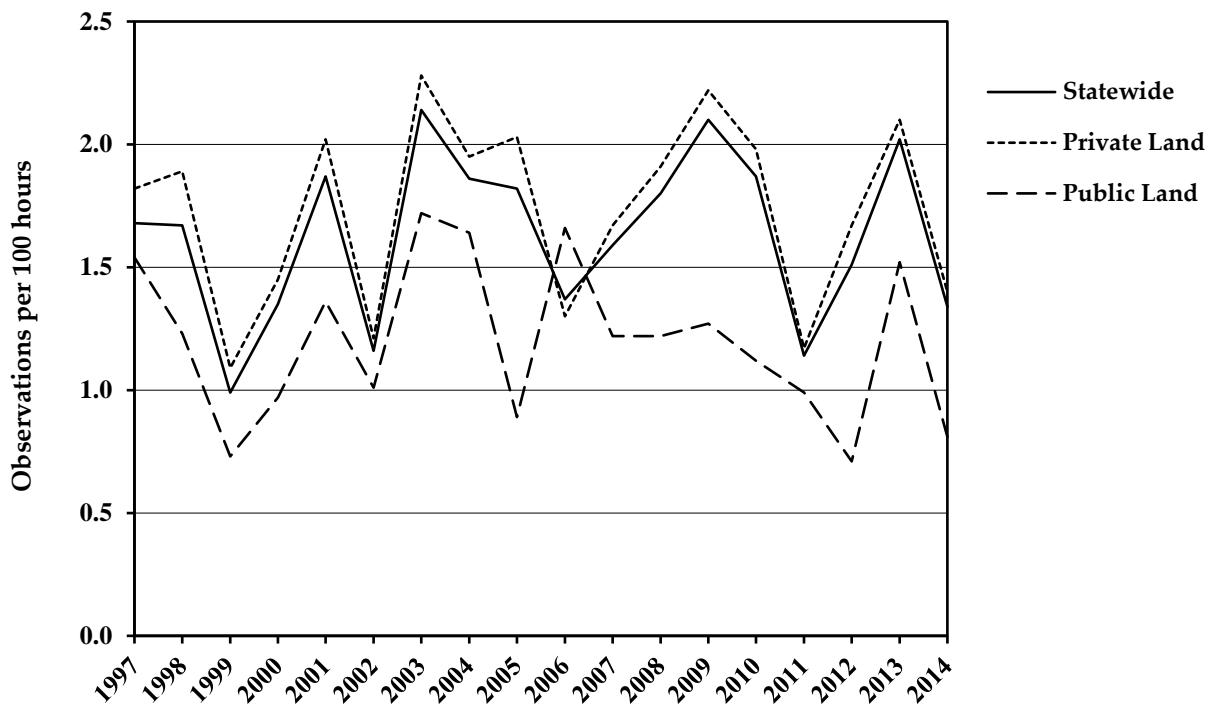


Figure 27. Raccoons observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

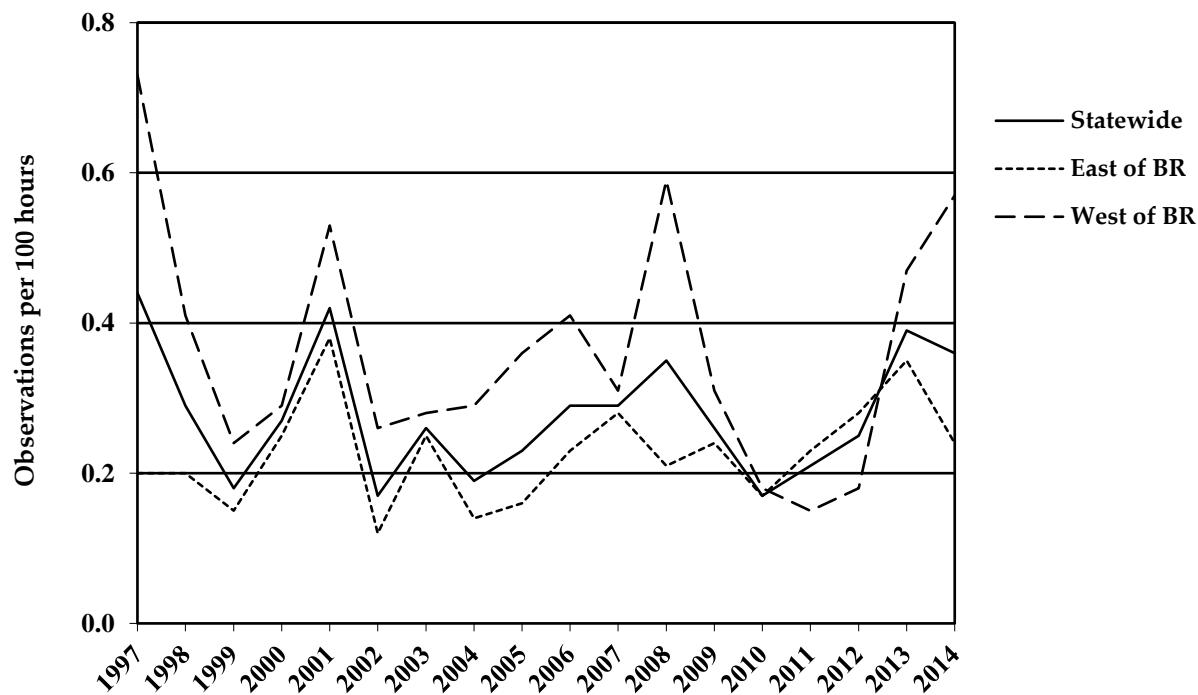


Figure 28. Opossums observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

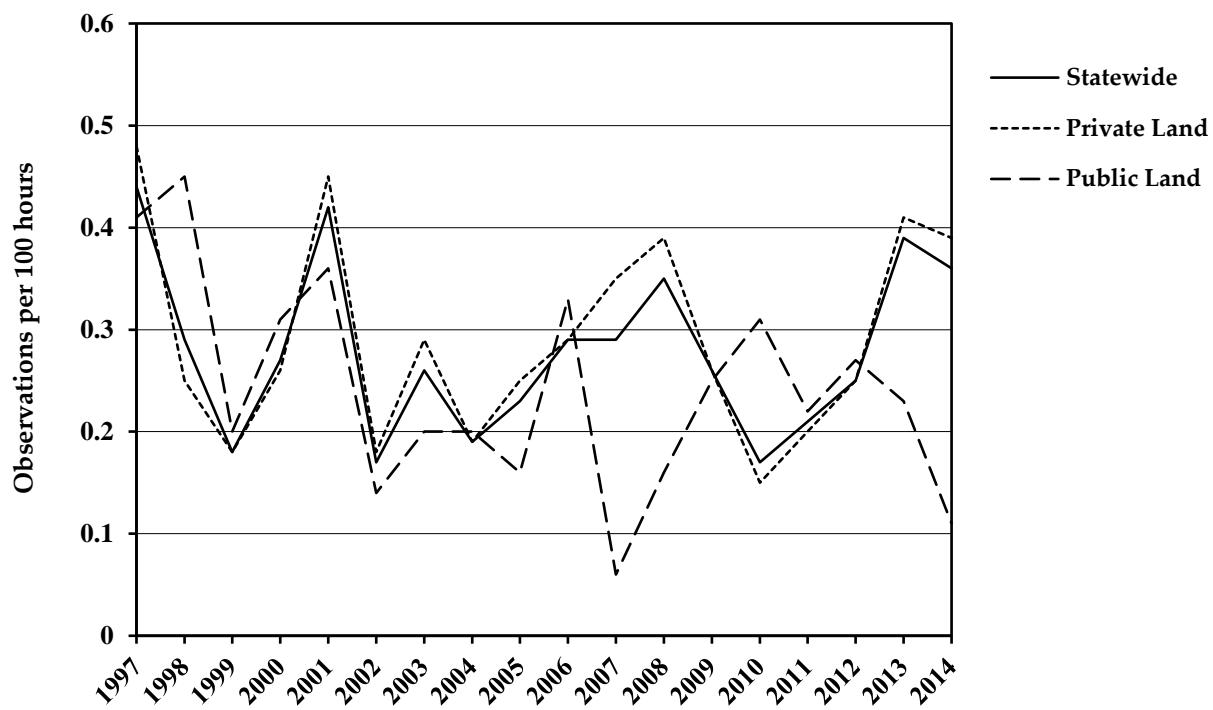


Figure 29. Opossums observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

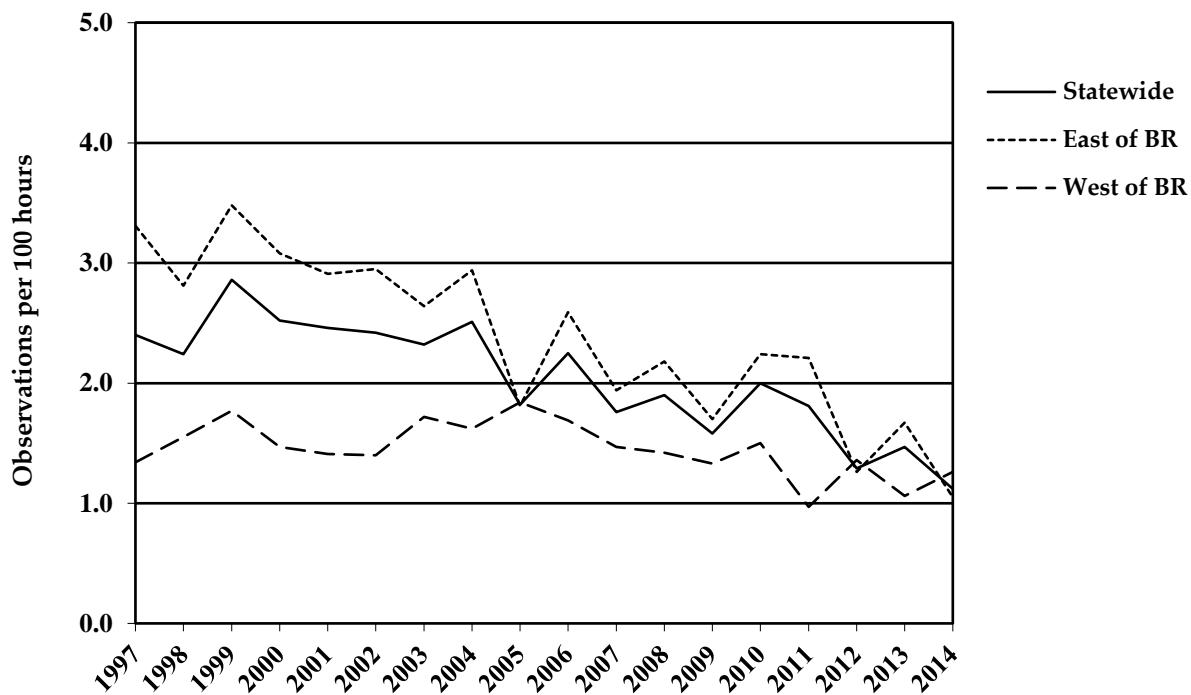


Figure 30. Dogs observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

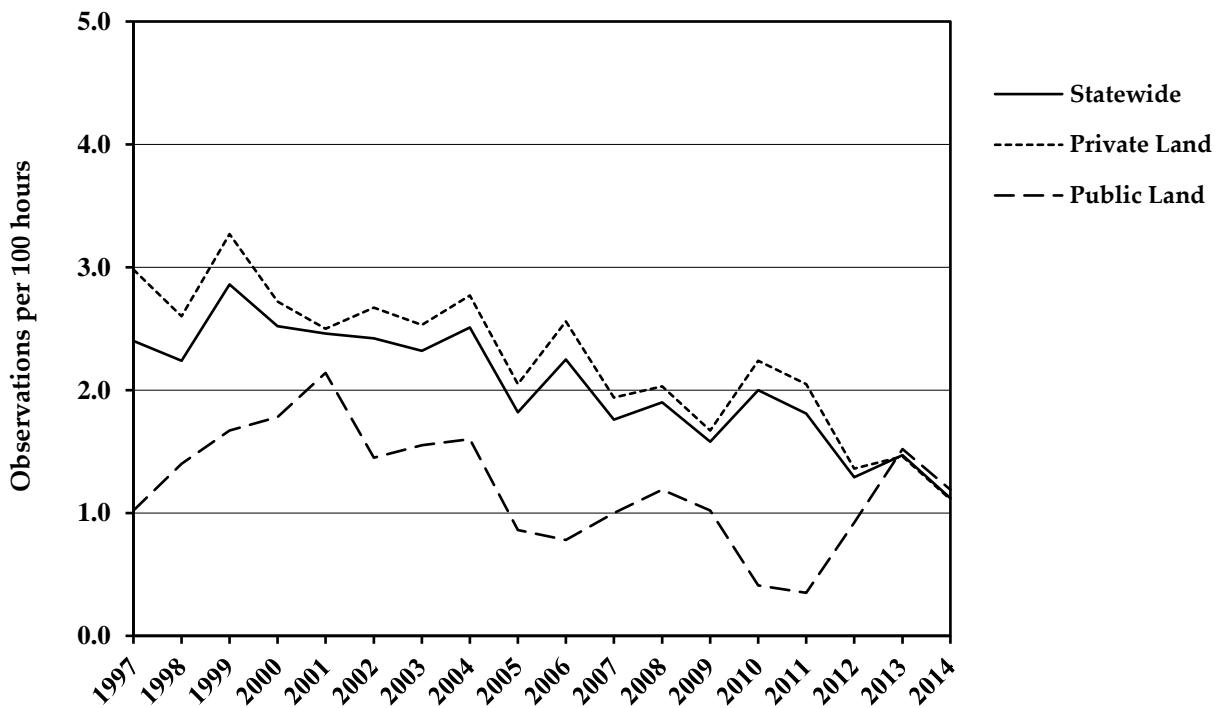


Figure 31. Dogs observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

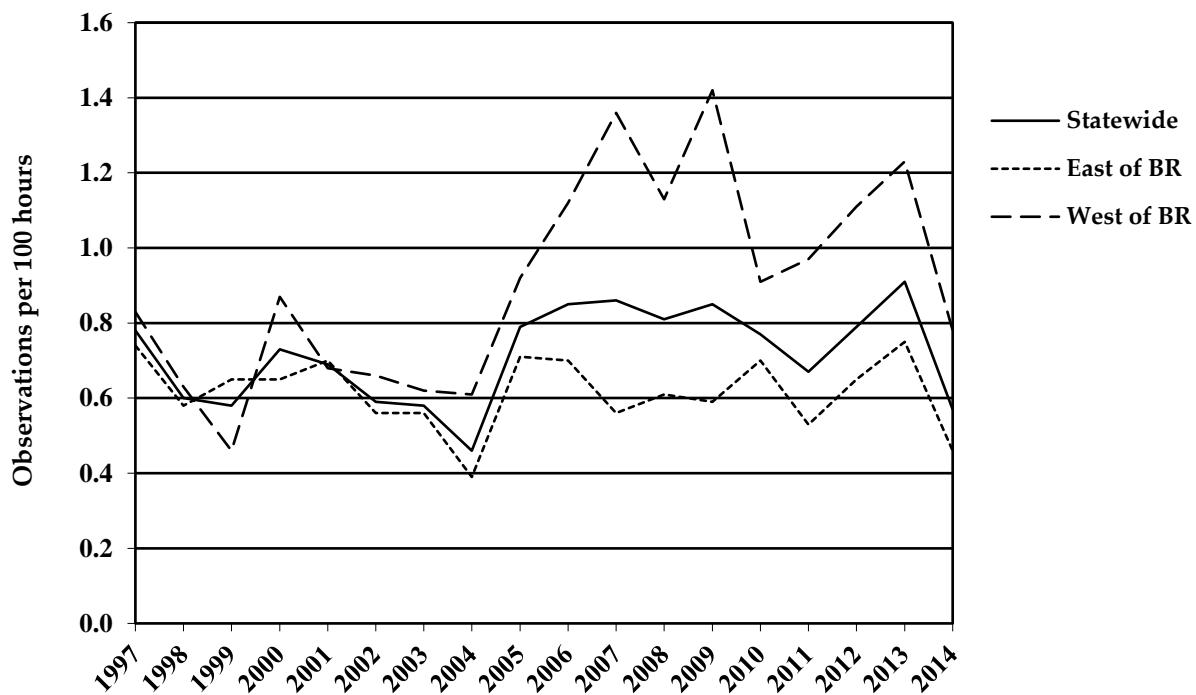


Figure 32. House cats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

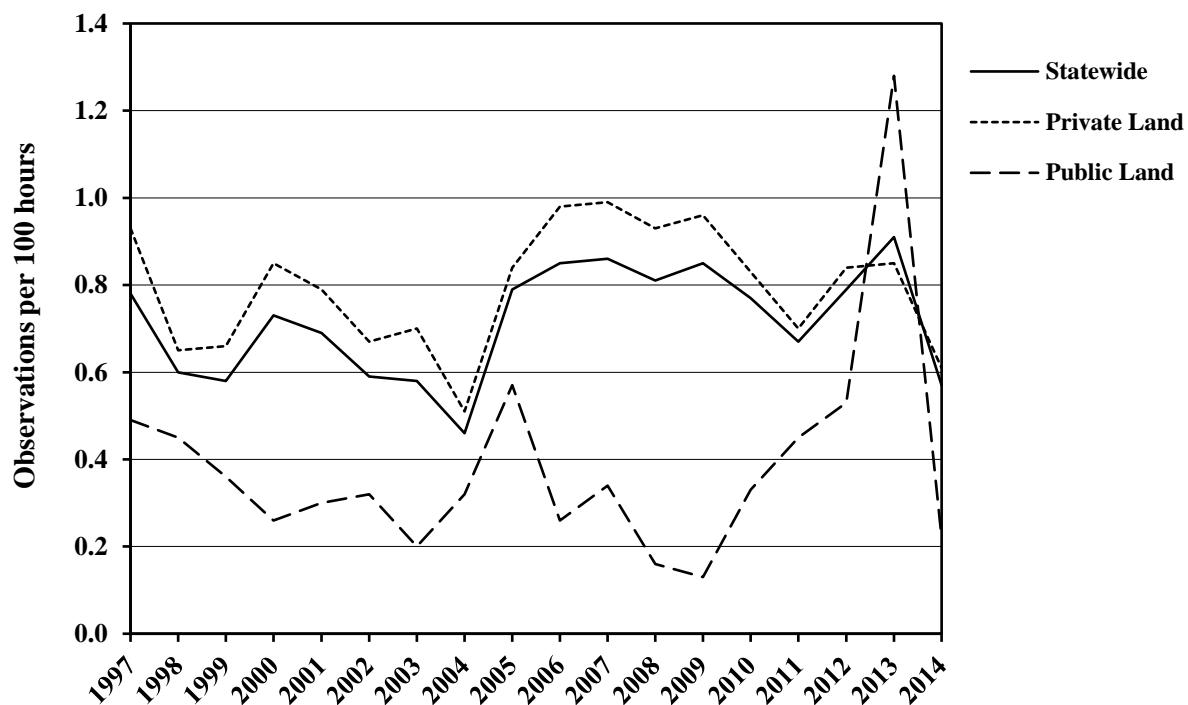


Figure 33. House cats observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

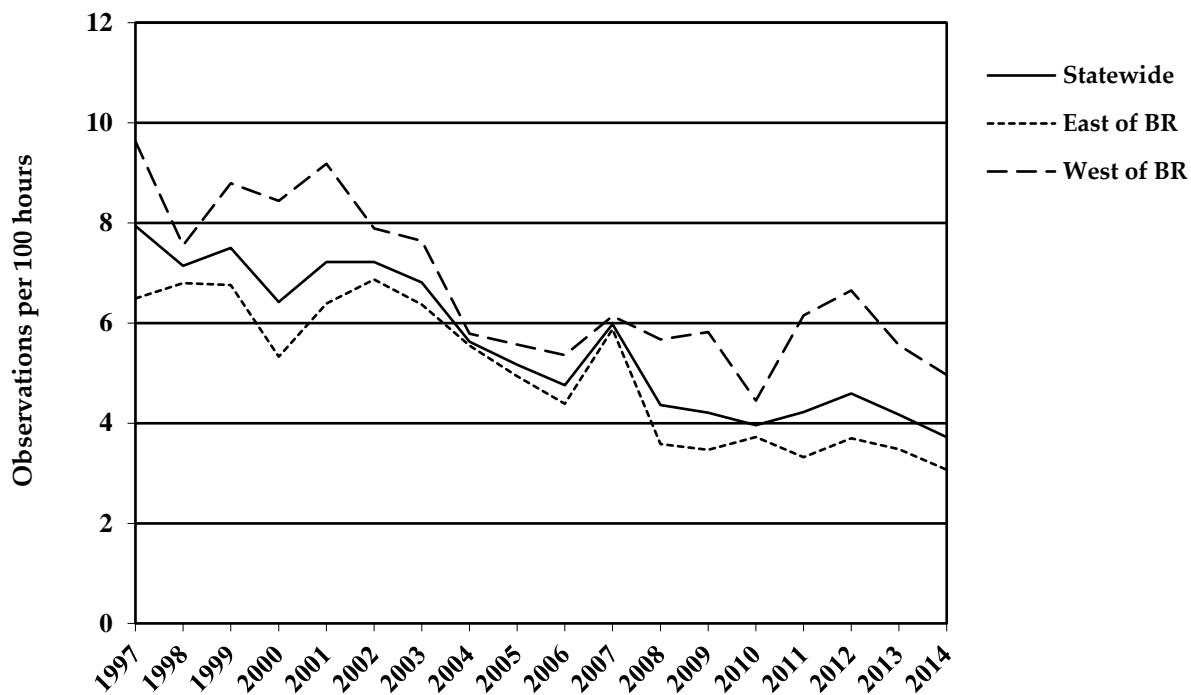


Figure 34. Hunters observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 east and west of the Blue Ridge Mountains and statewide in Virginia.

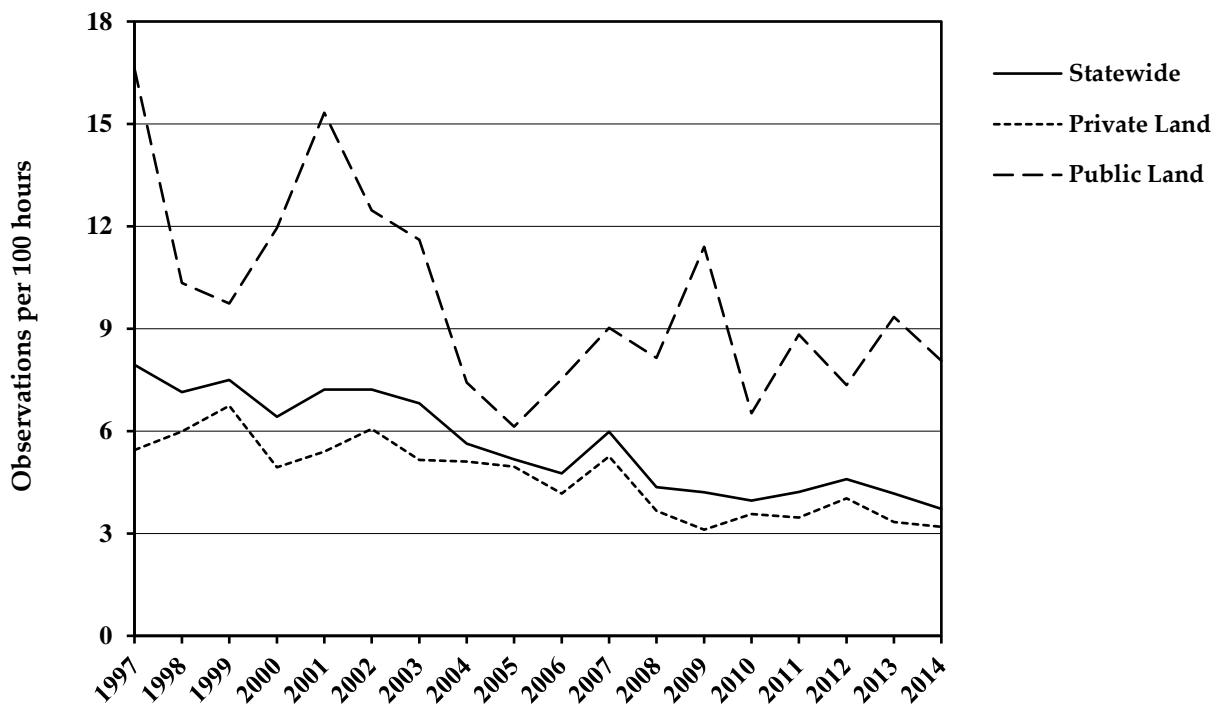


Figure 35. Hunters observed (per 100 hours of hunting) by cooperating early archery hunters from 1997-2014 by land ownership and statewide in Virginia.

2014 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

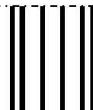
Wind: 1) none 2) light 3) breezy 4) strong

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

Appendix 1. Survey instrument for 2014 Virginia Bowhunter Survey.

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. 4 and Nov. 14** (early season) **only**. Do not separate morning and evening hunts on different lines (combine data from both hunts).
3. Write in the *county* where you hunted. If you hunted in more than one county on a single day, record different counties on different lines of the form.
4. Report whether or not you were hunting on *public 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 *mast abundance* (acorn crop) and *average weather* conditions for the time period hunted. Use the *number codes* 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, 2015**. *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.

RETURN ADDRESS (OPTIONAL).

DO YOU KNOW OF OTHER HUNTERS WHO WOULD LIKE TO PARTICIPATE IN THE BOWHUNTER SURVEY? IF SO, PLEASE ENTER THEIR NAMES AND ADDRESSES BELOW:

Name: _____

Address: _____

City/Town: _____

Name: _____

Address: _____

City/Town: _____

THANK YOU FOR PARTICIPATING!!

your ady

Appendix 3. Virginia counties hunted, hunts per county, and percentage of total state hunts per county by cooperating archery hunters 4 October to 14 November 2014 in Virginia.

County	No. Hunts	% of Hunts	County	No. Hunts	% of Hunts
Accomack	11	0.26	King William	98	2.28
Albemarle	97	2.25	Lancaster	43	1.00
Alleghany	0	0.00	Lee	23	0.53
Amelia	20	0.46	Loudoun	46	1.07
Amherst	84	1.95	Louisa	58	1.35
Appomattox	21	0.49	Lunenburg	21	0.49
Augusta	100	2.32	Madison	28	0.65
Bath	0	0.00	Mathews	13	0.30
Bedford	135	3.14	Mecklenburg	15	0.35
Bland	28	0.65	Middlesex	2	0.05
Botetourt	40	0.93	Montgomery	24	0.56
Brunswick	40	0.93	Nelson	30	0.70
Buchanan	13	0.30	New Kent	48	1.12
Buckingham	8	0.19	Northampton	23	0.53
Campbell	14	0.33	Northumberland	50	1.16
Caroline	24	0.56	Nottoway	25	0.58
Carroll	33	0.77	Orange	20	0.46
Charles City	54	1.25	Page	16	0.37
Charlotte	11	0.26	Patrick	25	0.58
Chesapeake	0	0.00	Pittsylvania	65	1.51
Chesterfield	48	1.12	Powhatan	13	0.30
Clarke	25	0.58	Prince Edward	2	0.05
Craig	11	0.26	Prince George	90	2.09
Culpeper	81	1.88	Prince William	58	1.35
Cumberland	13	0.30	Pulaski	20	0.46
Dickenson	36	0.84	Rappahannock	52	1.21
Dinwiddie	45	1.05	Richmond	2	0.05
Essex	9	0.21	Roanoke	34	0.79
Fairfax	86	2.00	Rockbridge	67	1.56
Fauquier	168	3.90	Rockingham	145	3.37
Floyd	43	1.00	Russell	18	0.42
Fluvanna	39	0.91	Scott	2	0.05
Franklin	57	1.32	Shenandoah	206	4.79
Frederick	16	0.37	Smyth	36	0.84
Giles	53	1.23	Southampton	172	4.00
Gloucester	0	0.00	Spotsylvania	30	0.70
Goochland	66	1.53	Stafford	17	0.40
Grayson	44	1.02	Suffolk	26	0.60
Greene	11	0.26	Surry	67	1.56
Greenville	26	0.60	Sussex	59	1.37
Halifax	39	0.91	Tazewell	46	1.07
Hanover	32	0.74	Virginia Beach	2	0.05
Henrico	27	0.63	Warren	30	0.70
Henry	35	0.81	N. News / Hampton	0	0.00
Highland	52	1.21	Washington	82	1.91
Isle of Wight	53	1.23	Westmoreland	59	1.37
James City	27	0.63	Wise	11	0.26
King & Queen	13	0.30	Wythe	40	0.93
King George	15	0.35	York	9	0.21