

Trout Cave Bat Counts -- 1982-2023

Area of the Cave	Type	1982	1983	1984	1985	1987	1989	1991	1993	1995	1997	1999	2001	2003	2005	2006	2007	2009	2010	2011	2013	2015	2017	2019	2022	2023
Area A (entrance area)	Tri		3	10	10	17	4	3	4	5	9	0	2	3	5		3		22	1	2	3	2	7	1	6
	BB		23	30	17	24	22	8	8	17	9	3	5	4	9		25	20	7	9	8	6	3	9	5	6
	LB		3	1	1	4	4	3			8						6	7	2	1			2		2	1
	SF		1			1		1	1	1					1		2			1		1		13		2
	NL												1				3	2								
	IN	1		10		13	8						1								70			1		1
	VB																					1		78		12
	UN		2																	1						
	All	1	32	51	28	59	38	15	13	23	26	3	7	9	15	0	39	29	31	13	80	11	7	108	8	28
Area B (side passage)	Tri		5						4	4	1				3				2	1				1		
	BB								1	1	1									1						2
	LB		1						1		4							1	6							
	SF												1		0										2	
	NL												1		0											
	IN		20						10	17	15	7	12	18	79		123	99	40	38						
	VB																					2		1		
	All	0	26	0	0	0	0	0	16	22	21	7	13	18	82	0	123	100	48	40	2	0	1	1	2	2
Area C (split to 8-foot drop)	Tri		31	108	102	154	148	82	67	75	135	99	115	60	169		108	59	75	29	10	4	5	4	1	
	BB		3	1	1		24		2	1		1	5	1	1					1	1					
	LB		10	3	2	8	15	4	8	8	3	3	5	5	2		6		9		2	4	1			
	SF				1			1							1		2	1		2	1	1		6	3	2
	NL				1			1						1		0										
	IN			4	2	1	11	10	2		9	12	12		15		35	40	42	52	9	94	67	78	52	25
	VB																				3	1	1	28	4	5
	UN																							1		
All	0	44	116	109	163	198	98	79	84	147	115	137	67	188	0	151	100	126	84	26	104	74	117	60	32	
Area D (8-foot drop to register)	Tri		177	29	23	52	56	29	27	20	38	34	43	50	33		16	29	20	9	4	10	1	2	1	3
	BB					1						2					0									
	LB										2						0									1
	SF																									
	NL																									
	IN																									6
	VB																									
All	0	177	29	23	53	56	29	27	20	40	36	43	50	33	0	16	29	20	9	4	10	1	2	1	10	
Area E (maze)	Tri		85	122	183	283	191	141	127	163	161	117	160	110	221		170	79	80	10	6	3	1		4	2
	BB										2									1						
	LB			6	3	5	4	11	8	2	4	1	0	4	1		2	5		2					1	
	SF																									
	NL																1									
	IN													1	1											
	VB																									
All	0	85	128	186	288	195	152	135	165	167	118	160	115	223	0	173	84	80	13	6	3	1	0	5	2	
Area F (register to end of trunk)	Tri		152	119	137	146	109	97	106	87	114	87	82	52	91		53	46	33	11	13	1	1	2	5	5
	BB		0					1													1					
	LB		133	82	127	158	121	107	65	120	194	127	84	93	115		127	91	11	4	1			2		
	SF																									
	NL																									
	IN		1							9																
	VB																									
All	0	286	201	264	304	230	205	171	216	308	214	166	145	206	0	180	137	44	15	15	1	1	4	5	5	

Area of the Cave	Type	1982	1983	1984	1985	1987	1989	1991	1993	1995	1997	1999	2001	2003	2005	2006	2007	2009	2010	2011	2013	2015	2017	2019	2022	2023
Area G (end of trunk to Square Room)	Tri		56	15	27	25	14	18	13	21	17	25	15	14	25		9	20		0	2		5	2	2	2
	BB													1												
	LB		2					1			1									1						
	SF																									
	NL																									
	IN		0																							
	VB																									
	All	0	58	15	27	25	15	18	13	21	18	25	15	15	25	0	9	20	0	1	2	0	5	2	2	2
Area H (Square Room)	Tri		21	9	13	21	16	36	17	19	28	37	56	24	52		73	36		2					2	
	BB																									
	LB		34	18	13	49	31	10	11	23	24	27	24	17	17			8				1				
	SF																									
	NL																									
	IN																									
	VB																									
	All	0	55	27	26	70	47	46	28	42	52	64	80	41	69	0	73	44	0	2	0	1	0	2	0	0
Totals	Tri		530	412	495	698	538	406	365	394	503	399	473	313	599		432	269	232	63	37	21	15	20	14	18
	BB		26	31	18	25	46	9	11	19	12	6	10	6	10		25	20	7	12	10	6	3	9	5	8
	LB		183	110	146	224	176	135	93	153	240	158	113	119	135		141	112	28	8	3	5	3	2	3	1
	SF		1		1	1		2	1	1					2		4	1		3	1	2	0	19	5	5
	NL				1			1					1	2			4	2		0	0	0	0	0	0	0
	IN	1	21	14	2	14	19	10	12	26	24	19	24	20	95	93	158	139	82	90	79	94	67	79	52	32
	VB																				5	2	2	106	4	17
	UN																			1	0	0	0	1	0	0
	All	1	761	567	663	962	779	563	482	593	779	582	621	460	841		764	543	349	177	135	130	90	236	83	81
See note number		1	2	2	2	2	2,3								4	5	6							7		

Notes:

1. The obviously incomplete count of one bat in 1982 is included here only because it has been previously published.
2. From 1984 through 1991 the Area B side passage was not counted separately and its bats are included in the Area A count.
3. One *Septentrionalis* bat was seen in Area F in 1991. It is not included in the count.
4. A partial count was done in Trout Cave in 2006. Only Indiana bats were counted and there were 93 of them.
5. Trout Cave was gated in September, 2008, and is closed during the winter hibernating season.
6. A partial count was done in Trout Cave in 2010. Areas G and H were not counted.
7. No count was done in 2021. Area H (the Square Room) was not counted in 2022.

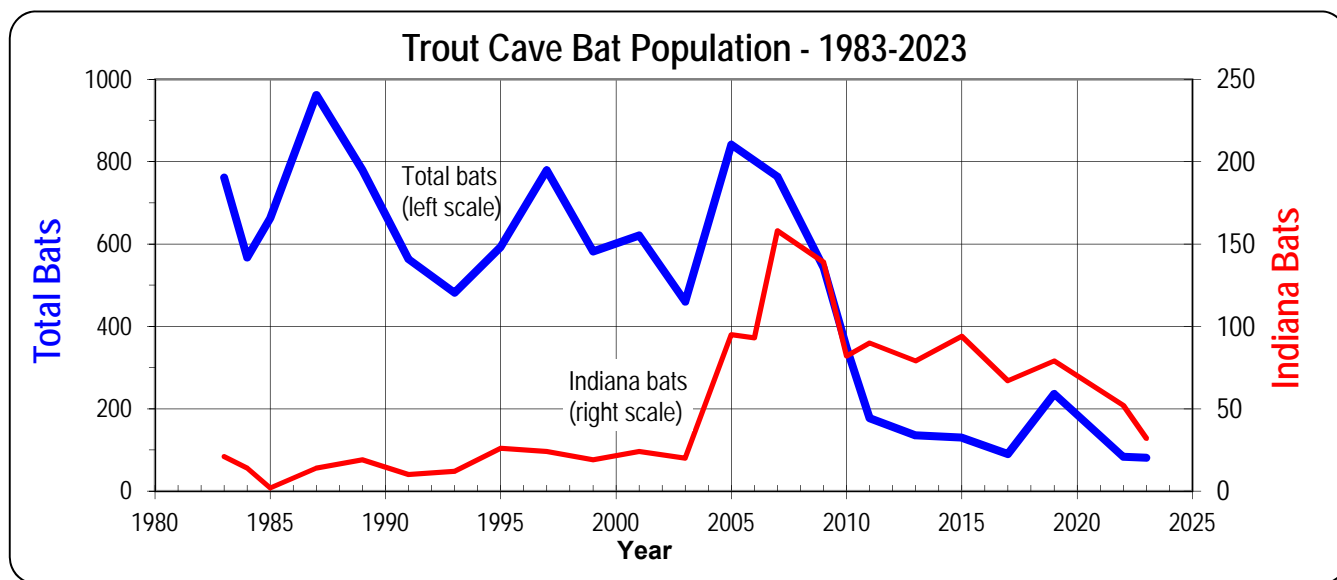
Bat Type Abbreviations:

Tri	Tri-color (formerly Eastern Pipistrelle)	NL	Northern Long Ear
BB	Big Brown	IN	Indiana (<i>Myotis sodalis</i>)
LB	Little Brown	VB	Virginia Big-Eared
SF	Small Footed bat (formerly Leibe)	UN	Unknown

Description of the counting areas (they are arbitrarily based on geography, not bat density):

- Area A First 200 feet inside the entrance. Large (40'w x 15'h) borehole with relatively flat floor.
- Area B A 50-foot side passage about 150 feet inside the entrance. Most of it is about 4-5 feet high.
- Area C 350 feet of large (40'w x 15'h) borehole with large breakdown on the floor.
- Area D About 75 feet on a "room" at the bottom of an 8-foot (climbable) drop.
- Area E About 300 feet of walking and stoopway in a horizontal maze area.
- Area F About 250 feet of mostly large (25'w x 10'h) passage.
- Area G About 300 feet of smaller (3' - 6' wide) walking passage.
- Area H A room about 25' square and 40' high. It is damp and is the highest point in the cave.

Cave Description and Counting Procedure: The cave is generally horizontal and dry (except for the damp Square Room). The first 200 feet get daylight and wind from the very large entrance. The same well defined areas are counted each year. No attempt is made to look for additional bat concentrations outside the standard counting areas. The goal is to develop a long-term database showing population changes over the years.



Count Dates and Participants:

- 1983 Feb. 26 Ed Ricketts, Tom Kaye, Bob Hoke, Mike Lipske, Ginny Tipton
- 1984 Feb. 4 Tom Kaye and others
- 1985 Feb. 10 Tom Kaye, Marilyn Templeton, Debbie Lapiere
- 1987 Mar. 1 Tom Kaye, Dave Dalton, Jim Crum
- 1989 Feb. 25 Tom Kaye and others
- 1991 Jan. 19 Tom Kaye and others
- 1993 Feb. 13 Tom Kaye and others
- 1995 Feb. 18 Tom Kaye and others
- 1997 Feb. 15 Tom Kaye and others
- 1999 Feb. 6 Bob Hoke, Arnie Weisbrot, Roxanne Shively, Rachel Shively, Fred Grady, Craig Stihler, Jeff Wallace, Elisa Bowman
- 2001 Feb. 10 Roxanne Shively, Fred Grady, Bob Hoke, Craig Stihler, Kieren O'Malley, Rebecca McKee
- 2003 Feb. 8 Dave West, Karen Willmes, Meredith Hall Johnson, Craig Stihler, Kieren O'Malley
- 2005 Feb. 12 Dave West, Karen Willmes, Craig Stihler, Kieren O'Malley
- 2006 Feb. 10 Dave West, Craig Stihler, Karen Willmes
- 2007 Feb. 9 Dave West, Craig Stihler, and Kieran O'Malley, Barbara Douglas
- 2009 Jan. 30 Craig Stihler, Kieran O'Malley, Barbara Douglas, Tabitha Viner
- 2010 Mar. 3 Craig Stihler, Rick Doyle, Barbara Douglas, Kieran O'Malley
- 2011 Feb. 28 Craig Stihler, Dave West, Barbara Douglas, Kieran O'Malley, Rick Doyle
- 2013 Feb. 26 Craig Stihler, Barbara Douglas, Kieran O'Malley, Rick Doyle, Jack Wallace, Bob Hoke
- 2015 Mar. 14 Craig Stihler, Barbara Douglas, Kieran O'Malley
- 2017 Mar. 3 Craig Stihler, Barbara Douglas, Jack Wallace, Earl Suitor
- 2019 Mar. 9 Kevin Oxenrider, Rick Doyle, Alissa Gulette, Gary Mathias, Tom Griffin, Emily Neely, Nikki Fox, Shawn Hogbin, Michael Nally, David Marcenaro, Poonja Panigrahi
- 2022 Feb. 18 Earl Suitor, Bruce Randall, Philippe Grenade, Vivian Masters, Macy Kailing, Kate Ludwig, Nichole Laggan
- 2023 Feb. 17 Earl Suitor, Ashby Haines, Jakob Goldner (WVDNR), Macy Kailing (Virginia Polytechnic Institute), and Brian Gordon (WVDNR)

