

2020 Totals for Jester Bat Count

Resurgence	Singles	Groups	totals
Myotis	56	4,424	4,480
Tri-Color (Pips)	25	4	29
Big Ear	0	0	0

Train	Singles	Groups	totals
Myotis	1	0	1
Tri-Color (Pips)	7	0	7
Big Ear	2	0	2

Glade/Homestead	Singles	Groups	totals
Myotis	151	8,531	8,682
Tri-Color (Pips)	24	12	36
Big Ear	1	3	4

Totals for all 3	Singles	Groups	totals
Myotis	208	12,955	13,163
Tri-Color (Pips)	56	16	72
Big Ear	3	3	6
totals:	267	12,974	13,241

Jester Resurgence

2/1/2020 (Duane, Jon W, Sue, Andrew, John VD)

In: 1150 am Out: 2:10 pm Total: 2 hr. 20 min

Temperature readings (degrees F)

<u>Location: Cave Mouth</u>				
Air	45.6 °F	Dirt	38.1 °F	Humidity 63%
Rock	46.2 °F	Water	37.6 °F	
<u>Location: Cave Middle (Pip Hall)</u>				
Air	53.1 °F	Dirt	47.1 °F	Humidity 80.80%
Rock	49.2 °F	Water	47.1 °F	
<u>Location: Pip Room</u>				
Air	56.3 °F	Dirt	53.2 °F	Humidity 87.30%

Note: Very little water; pip room was virtually dry until it tied into the main passage

Performed 15 swabs on Tri-Color, 10 swabs on Myotis for testing WNS

	Singles	Groups	totals
Myotis	56	4,424	4,480
Tri-Color (Pips)	25	4	29
Big Ear	0	0	0

Packing Rate (sq. ft.) 225

myotis			myotis			myotis		
singles	groups	grp note	singles	groups	grp note	singles	groups	grp note
1	23		1	34			7	
1	11		1	17			206	12X11
1	3		1	2			6	
1	17		1	10			4	
1	28		1	225	12X12		2	
1	102		1	71			2	
1	14		1	8			5	
1	225	12X12	1	4			2	
1	20		1	3			30	
1	17		1	14			4	
1	31		1	7			3	
1	26		1	5			3	
1	5		1	52			7	
1	49		1	9			2	
1	2		1	3			2	
1	2		1	3			3	
1	3		1	91			9	
1	13		1	5			7	
1	137	8X11	1	52			9	
1	3		1	237	19X8		9	
1	99		1	1,348	24X36		2	
1	2		1	14			2	
1	3		1	85			4	
1	10		1	57				
1	4			4				
1	29			7				
1	144			3				
1	225	12X12		2				
1	225	12X12		32				
1	10			8				
1	160			2				
1	31			7				
32	1,673 (subtotal)		24	2,421 (subtotal)		0	330	

Train Tunnel

2/15/2020 (Dale, Duane, Steve, Sue, Jon W)

In: 11:40 a.m. Out: 11:50 a.m. Total: 10 mins.

Temperature readings

Location: Cave Mouth					
Air	53 °F	Dirt	45 °F	Humidity	68%
Rock	43 °F	Water	N/A		

Notes: Lots of debris on ceiling... entrance blocked up to 5 feet with downed trees. Evidence of severe flooding in past year.

	Singles	Groups	totals
Myotis	1	0	1
Tri-Color (Pip)	7	0	7
Big Ear	2	0	2

	myotis		Tri-Color (pips)		Big Ear	
	single	groups	single	groups	single	groups
	1		1		1	
			1		1	
			1			
			1			
			1			
			1			
			1			
Totals	1	0	7	0	2	0

Glade/Homestead

2/15/2020 (Dale, Duane, Steve, Sue, Jon W)

In: 12:26 p.m.. Out: 2:15 p.m. Total: 1 hr. 49 mins.

Temperature readings

Location: Glade Entrance (Cave Mouth)					
Air	53 °F	Dirt	43 °F	Humidity	56%
Rock	43 °F	Water	N/A		
Location: Homestead					
Air	43 °F	Dirt	38 °F	Humidity	58%
Rock	40 °F	Water	N/A		

Note: Very Wet - past year flooding changed some of the floor paths. Piles of guano that have been here for years are gone. Even side passages flooded to ceiling

	Singles	Groups	totals	Packing Rate =
Myotis	151	8,531	8,682	15 x 18 = 270 per sq. ft.
Tri-Color	24	12	36	270 /144= 1.875 bats/in
Big Ear	1	3	4	gpr note collumn is packing in inches

myotis			myotis			myotis		
singles	groups	grp note	singles	groups	grp note	singles	groups	grp note
1	12		1	2		1	8	
1	7		1	11		1	16	
1	9		1	63		1	2	
1	5		1	10		1	5	
1	6		1	400		1	49	
1	4		1	16		1	2	
1	5		1	148		1	6	
1	2		1	12		1	19	
1	34		1	4		1	7	
1	9		1	3		1	4	
1	2		1	2		1	18	
1	57		1	14		1	270	12 x 12
1	2		1	29		1	30	
1	Note: PR1	Note 15x18	1	900		1	180	12 x 8
1	1,080	24 x 24	1	35		1	2	
1	540	18 x 16	1	2		1	30	
1	1,080	24 x 24	1	4		1	27	
1	787		1	7		1	34	
1	14		1	12		1	9	
1	4		1	9		1	3	
1	2		1	117		1	155	
21	3,661	(subtotal)	21	1,800	(subtotal)	21	876	

myotis			myotis			myotis		
singles	groups	grp note	singles	groups	grp note	singles	groups	grp note
1	54		1	1,080	24 x 24	1	2	
1	5		1	3		1	6	
1	24		1	4		1	2	
1	11		1	4		1	2	
1	2		1	8		1	4	
1	5		1	86		1	4	
1	11		1	3			3	
1	5		1	24			17	
1	4		1	2			2	
1	4		1	2			8	
1	3		1	3			4	
1	20		1	3			8	
1	6		1	7			13	
1	44		1	8			2	
1	6		1	8			2	
1	6		1	37			11	
1	35		1	12			2	
1	7		1	13			2	
1	6		1	3			6	
1	6		1	2			54	
1	3		1	2			3	
1	6		1	6			11	
1	2		1	2			12	
1	5		1	2			4	
1	2		1	2			5	
1	18		1	13			4	
1	3		1	2			2	
1	3		1	3			8	
1	49		1	17			2	
1	4		1	32			2	
1	11		1	4			2	
1	2		1	2			2	
1	2		1	36			2	
1	2		1	6			2	
1	32		1	2			2	
1	7		1	3			3	
1	2		1	32			3	
1	5		1	22			4	
1	3		1	2			2	
1	7		1	4			2	
1	6		1	4			3	
41	438 (subtotal)		41	1,510 (subtotal)		6	234	

Notes on calculations

Jester Resurgence

15 15 225
 225 144 1.5625

(packing was 15x15 in a square foot; 225 per square foot)
 (rate computed is 225 bats in 144 sq inches, or 1.6 (rounded) bats per sq.in.)
 (packing rate was tighter than 2018)

resurgence packing numbers

pack	1.56	sq1	sq2	tot sq	total count (rate * tot sq)
8X11		88		88	137
12X11		132		132	206
12X12		144		144	225
8X19		152		152	237
24X36		864		864	1,348

Glade/Homestead Packing Rate 1 (PR1) numbers

D's calculations

Packing Rate =	15 x 18 = 270 per sq. ft.
	270 /144= 1.875 bats/in

6 mats recorded on Glade/Homestead

1 side	2 side	sq ft	bats total	rounded
24	24	576	1,080	1,080
18	16	288	540	540
24	24	576	1,080	1,080
12	12	144	270	270
12	8	96	180	180
24	24	576	1,080	1,080

On data numbers / double line dividing between numbers means the data from then on was on a different sheet

Example

1	2	
1	13	
1	2	
1	3	

On this sample from Glade data the double line under the second 1 indicates leaving Steve's notes from the main passage and beginning Duane's notes from the side passages.