

Appendix 3: Preliminary Bat Surveys of White Grass and Bar B C Ranches, Grand Teton National Park

by
Douglas A. Keinath
Senior Zoologist, Wyoming Natural Diversity Database

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Contents

Background and Introduction	43
Summary Results	43
Building Accounts: Bar B C Ranch	44
Building Accounts: White Grass Ranch	59

Background and Introduction

In 2003 the Wyoming Natural Diversity Database (WYNDD) began a two-year inventory of the bat fauna of the Greater Yellowstone Network (GRYN) as part of the National Park Service Inventory and Monitoring Program (NPS IM). During the summer 2004 field season, biologists in Grand Teton National Park (GTNP) noted the need to specifically investigate two abandoned ranches located in the park (White Grass Ranch and Bar B C Ranch) that are being considered for building modifications (i.e., renovation and/or destruction). Based ad hoc investigations in the past there was reason to believe that at least some structures on these ranches might serve as bat roosts, but there was no information available to confirm current use. WYNDD personnel visited Bar B C on 4 August 2004 and White Grass Ranch on 8 August 2004, at which times we conducted thorough searches of each building to document the presence and level-of-use by bats.

Summary Results

The bat activity of each building was documented and is noted in the following building accounts, along with photographs, basic building descriptions, and GPS coordinates. This information is provided for reference only and it is the opinion of the author that follow-up study should be conducted, as suggesting in the building accounts, before management decisions are made regarding these ranches and particular buildings therein.

Those buildings with bat activity have been given a priority score base on the author's estimation of their importance to the local bat fauna; buildings with no bat use are not given a score. For quick reference, the rough priority score of each building (i.e., High, Medium, Low) is noted in upper left corner of each building account and is color-coded for ease of use (Red = High priority, Orange = Medium and Low priority). Specific information regarding bat activity and recommendations for follow-up activities are provided in the last two cells of each account. Bat activity at the ranches can be summarized as follows:

- **Bar B C:** 28 buildings were surveyed. Of these, 13 buildings (46% of existing structures) showed evidence of use by bats. Four buildings are of high priority due to a combination of high use levels and presence of sensitive species, three are of medium priority, and six are of low priority. Of the high priority buildings, one is a substantial maternity colony, another is a day roost for Townsend's big-eared bat, and two have generally high use.
- **White Grass:** On the whole, White Grass Ranch exhibited a high level of bat activity and may be important to the local bat fauna of Grand Teton National Park. Of the 13 buildings surveyed, 11 buildings (85% of existing structures) showed evidence of bat use. Five buildings are of high priority due to a combination of high use levels and presence of sensitive species, three are of medium priority, and three are of low priority. Of the high priority buildings, 4 showed high bat activity. Further, two were used by Townsend's big-eared bats and one was a sizable maternity colony for little brown bats.

Building Accounts: Bar B C Ranch

	Building ID: BBC-a	GPS Location (E, N):	0524625	4838068	Location Error: 12 m
<p>Description:</p> <p>Sheet shingle roof log cabin with chinking. Small porch on west side. Screened porch n south.</p> <p>Beam and plank ceiling. Two rooms. Contains old shelves, table, lumber, and sheet insulation.</p> <p><u>Bat habitat Notes:</u> Many possible entrance holes for bats.</p>					
Bat Use: None.					
Recommendations: No follow-up necessary.					

L	Building ID: BBC-b	GPS Location (E, N):	0524589	4838070	Location Error: 6 m
<p>Description:</p> <p>Small (4m X 4m) long cabin with chinking. Sheet-shingle roof. One door on west and one window.</p> <p>Beam and plank ceiling. One room. Contains: shelves, extra doors. Several yellow-jacket nests (ouch!).</p> <p><u>Bat habitat Notes:</u> Main bat entry point is a gap in roof planks in southwest corner.</p>					
Bat Use: Low bat use based on scatter guano. Possible night roost or sparsely-used day roost.					
Recommendations: Could conduct ANABAT® survey of main emergence point, but follow-up not critical.					

M	Building ID: BBC-c	GPS Location (E, N):	0524600	4838122	Location Error: 3 m
<p>Description:</p> <p>Small cabin (5m X 12m). Two entry doors with porch on west side. Sheet-shingle roof and chinked logs.</p> <p>Beam and plank ceiling. Two rooms. Spare lumber, table, and shelves.</p> <p><u>Bat habitat Notes:</u> Many possible entrance holes; main one being on the northeast corner of the cabin.</p>					
<p>Bat Use: Moderate level of bat use based on scattered guano. Likely a night roost, but possibly a day roost during other times of the season.</p>					
<p>Recommendations: Conduct ANABAT® survey of main emergence point on the NE corner of the cabin.</p>					

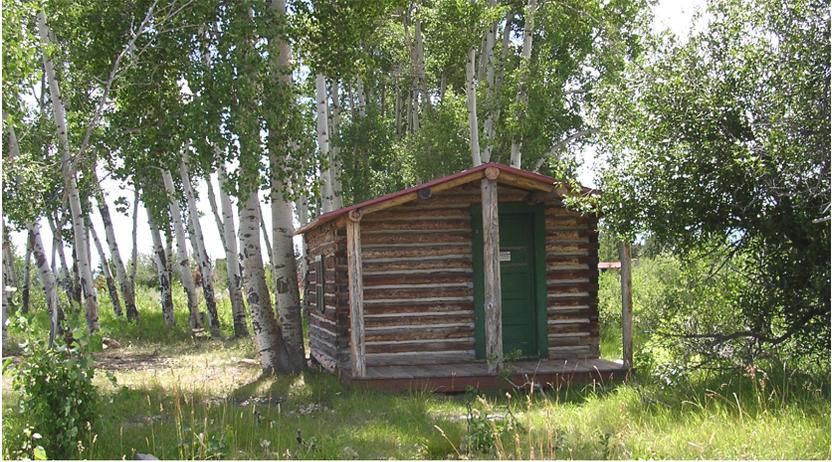
M	Building ID: BBC-d	GPS Location (E, N):	0524588	4838053	Location Error: 11 m
<p>Description:</p> <p>"Cabin 5." Small (4m X 7m) log cabin with chinking. Tin roof. One door on south and four windows.</p> <p>Beam and plank ceiling with a large board nailed to center beam forming an 'attic' space. Two rooms.</p> <p><u>Bat habitat Notes:</u> Large gap on base of south wall and possible entry point at roof joint on southwest wall.</p>					
<p>Bat Use: Moderate bat activity based on guano accumulations. Likely a night roost or day roost earlier in the season, since no bats were seen during inspection.</p>					
<p>Recommendations: Conduct follow-up survey with ANABAT® to determine level and timing of bat activity, as well as species composition.</p>					

	Building ID: BBC-e	GPS Location (E, N):	0524649	4838058	Location Error: 1 m
<p>Description:</p> <p>Mid-sized (7m X 16m) log cabin. Sheet-shingle roof with chimney on north side. Entrances on west and east sides.</p> <p>Beam and plank ceiling. One room. Contains lumber, tables, bench, dressers, and spare doors.</p> <p><u>Bat habitat Notes:</u> Bat entrances through many holes near floor level plus an open chimney.</p>					
Bat Use: None.					
Recommendations: No follow-up necessary.					

	Building ID: BBC-f	GPS Location (E, N):	0524584	4837996	Location Error: 8 m
<p>Description:</p> <p>Mid-sized (4m X 12m) log cabin with chinking. Two entry doors, both on north side with porch. Four windows. Sheet-shingle roof.</p> <p>Beam and plank ceiling with stovepipe hole in the southeast. Two rooms.</p> <p><u>Bat habitat Notes:</u> Bat emergence point likely through stovepipe hole.</p>					
Bat Use: None.					
Recommendations: None.					

M	Building ID: BBC-g	GPS Location (E, N):	0524649	4838059	Location Error: 2 m
<p>Description:</p> <p>Small (4m X10m) log cabin. Sheet-shingle roof with stone chimney on north side. Two entrance doors with porch on the west. 4 windows.</p> <p>Beam and plank ceiling. Two rooms. Contains shelves.</p> <p><u>Bat habitat Notes:</u> Openings in northeast corner, south west corner, and through the chimney.</p>					
<p>Bat Use: Moderate bat use based on guano accumulations, mainly near chimney. Likely a night roost, but possibly a day roost during other times of year.</p>					
<p>Recommendations: Conduct ANABAT® surveys of the chimney emergence point.</p>					

	Building ID: BBC-h	GPS Location (E, N):	0524603	4838164	Location Error: 8 m
<p>Description:</p> <p>"Cabin 1." Small (4m X 4m) log cabin. One door on south, with porch. Two windows. Sheet-shingle roof.</p> <p>Beam and plank ceiling. One room.</p> <p><u>Bat habitat Notes:</u> None.</p>					
<p>Bat Use: None.</p>					
<p>Recommendations: None.</p>					

	Building ID: BBC-i	GPS Location (E, N):	0524588	4838005	Location Error: 1 m
<p>Description:</p> <p>Small (4m X 5m) log cabin with most chinking in tact. Two entrance doors, with a porch on the north side. Two windows. Sheet-shingle roof.</p> <p>Beam and plank ceiling. One room. Contains an old stove and broken shelves.</p> <p><u>Bat habitat Notes:</u> Some possible entrance holes along the floor and around the south door.</p>					
Bat Use: None.					
Recommendations: No follow-up necessary.					

	Building ID: BBC-j	GPS Location (E, N):	0524535	4838181	Location Error: 6 m
<p>Description:</p> <p>Small (4m X 9m), collapsed log cabin. One door, 5 windows, many holes. Wood plank roof.</p> <p>Beam and plank ceiling. Two rooms. Unstable!</p> <p><u>Bat habitat Notes:</u> None.</p>					
Bat Use: None.					
Recommendations: None.					

	Building ID: BBC-k	GPS Location (E, N):	0524651	4838179	Location Error: 4 m
<p>Description:</p> <p>Small (5m X 9m) log cabin with most chinking in tact. Barn-style double doors on north and another door on south. 5 windows. Wood-slat roof with no shingles.</p> <p>Beam and plank ceiling. Much "junk"; looks like old tack shed. Windows and doors open.</p> <p><u>Bat habitat Notes:</u> Many large openings.</p>					
Bat Use: None.					
Recommendations: No follow-up necessary.					

	Building ID: BBC-l	GPS Location (E, N):	0524408	4838092	Location Error: 6 m
<p>Description:</p> <p>Small (4m X 5m) log cabin with chinking. One door and two windows. Unshingled roof.</p> <p>Beam and plank ceiling. One room.</p> <p><u>Bat habitat Notes:</u> Possible bat entry holes through deteriorating roof.</p>					
Bat Use: None.					
Recommendations: None.					

	Building ID: BBC-m	GPS Location (E, N):	0000000	0000000	Location Error: 00 m
<p>Description: Mid-sized log cabin. Sheet-shingle roof. Door on north and window on east. Half of building is open and contains saddle rests. Beam and plank ceiling. One inside room, one open room with saddle bars. Contains some shelves. <u>Bat habitat Notes:</u> Entrance points above door on north wall and on top of south wall.</p>					
Bat Use: None.					
Recommendations: No follow-up necessary.					

L	Building ID: BBC-n	GPS Location (E, N):	0524431	4838046	Location Error: 6 m
<p>Description: Small (4m X 8m) log cabin. Sheet-shingle roof with chimney. Somewhat unstable. Beam and plank ceiling. Two rooms. One fireplace with blocked chimney. <u>Bat habitat Notes:</u> Possible bat entrance through stovepile hole and upper corners of walls.</p>					
Bat Use: Low bat use based on some guano. Likely a night use for a small number of bats.					
Recommendations: Possible ANABAT® to determine level of use and species of bats present, but follow-up not critical.					

	Building ID: BBC-o	GPS Location (E, N):	0524468	4838124	Location Error: 4 m
<p>Description:</p> <p>"Cabin 17" Small log cabin with worn chinking. Crumbling plank roof with shingles. Door on southeast (kicked in) and window on southeast.</p> <p>Beam and plank ceiling. One room. Contains a table and shelves.</p> <p><u>Bat habitat Notes:</u> Small holes in ceiling and on upper southeast wall could provide entrance points.</p>					
<p>Bat Use: None.</p>					
<p>Recommendations: No follow-up necessary.</p>					

H	Building ID: BBC-p	GPS Location (E, N):	0524440	4837927	Location Error: 6 m
<p>Description:</p> <p>Large (8m X 12m) log cabin with an L-shaped layout. Sheet shingle roof with two chimneys.</p> <p>Beam and plank ceiling. About 9 rooms and a cellar. Two fireplaces.</p> <p><u>Bat habitat Notes:</u> Many emergence holes throughout building, plus a even-temperature, cave-like cellar.</p>					
<p>Bat Use: Moderate bat use based on scattered guano throughout house. Roosting male Townsend's big-eared bat (<i>Corynorhinus townsendii</i>) found in southeast room (see photo).</p>					
<p>Recommendations: Definitely conduct active ANABAT® surveys at several points in the season to determine level of use and species composition. <i>C. townsendii</i> often difficult to record, so also conduct low-disturbance diurnal roost survey early and late in the season. Consider preserving this building as bat habitat.</p>					

H	Building ID: BBC-q	GPS Location (E, N):	0000000	0000000	Location Error: 00 m
<p>Description:</p> <p>Small (4m X 8m) log cabin with chinking. Worn shingled roof. Two entrance doors facing east with collapsed roof. Two windows.</p> <p>Beam and plank ceiling. Two rooms.</p> <p><u>Bat habitat Notes:</u> Building interior noticeable warmer than others. Main entrance points are the window on the northeast side and an old chimney hole in the ceiling of the south east room.</p>					
<p>Bat Use: High bat activity based on large amount of guano. One <i>Myotis lucifugus</i> seen roosting by the ceiling peak on the southeast wall. Definitely a day roost and possibly night roost as well.</p>					
<p>Recommendations: Conduct ANABAT® survey of main emergence points and possibly harp-trap the entrance and/or do an emergence count to determine abundance of bats.</p>					

L	Building ID: BBC-r	GPS Location (E, N):	0524409	4837915	Location Error: 10 m
<p>Description:</p> <p>Small (4m X 4m) log cabin. wood roof. One door and one window.</p> <p>Beam and plank ceiling. one room.</p> <p><u>Bat habitat Notes:</u> Possible bat entrance through south-facing window.</p>					
<p>Bat Use: Low bat use based on some guano. Likely a night use for a small number of bats.</p>					
<p>Recommendations: Possible ANABAT® to determine level of use and species of bats present, but follow-up not critical.</p>					

L	Building ID: BBC-s	GPS Location (E, N):	0524487	4838001	Location Error: 3 m
<p>Description:</p> <p>Small (4m X 5m) log cabin with chinking. One door with porch on the east. Two windows. Close to BBC-u on the west. Worn shingled roof.</p> <p>Beam and plank ceiling. Blocked chimney on east side of building.</p> <p><u>Bat habitat Notes:</u> Emergence points through crack in east wall and by the south window.</p>					
<p>Bat Use: Low bat use based on scattered guano by west window. Size of guano suggests use by <i>Eptesicus fuscus</i>. Age of guano suggests no recent activity.</p>					
<p>Recommendations: No follow-up necessary.</p>					

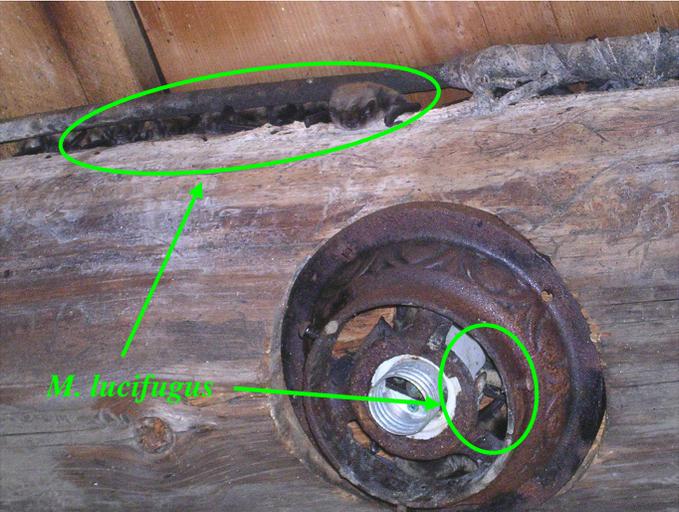
	Building ID: BBC-t	GPS Location (E, N):	0524408	4837869	Location Error: 7 m
<p>Description:</p> <p>Old wood and log building with north side collapsed. Wooden roof that's half missing.</p> <p>One partially remaining room with piles of wood.</p> <p><u>Bat habitat Notes:</u> Entrances everywhere, but no decent roosting space.</p>					
<p>Bat Use: None.</p>					
<p>Recommendations: None.</p>					

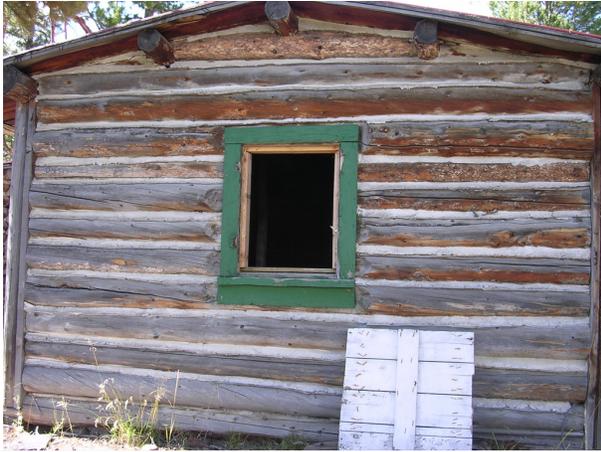
H	Building ID: BBC-u	GPS Location (E, N):	0524491	4838008	Location Error: 4 m
<p>Description:</p> <p>Small (4m X 5m) log cabin with chinking. Entrance door with porch on east side. Chimney used to be on the north. Two windows. Crumbling sod roof.</p> <p>Beam and plank ceiling. One room. Door is wide open.</p> <p><u>Bat habitat Notes:</u> Large openings through door and windows. Sod roof likely regulates temperature of building.</p>					
<p>Bat Use: High level of bat use based on guano accumulation. Size of guano suggests use by <i>Eptesicus fuscus</i>. Likely an active night roost.</p>					
<p>Recommendations: Conduct ANABAT® survey with visual observation at entrances. Possibly mist net nearby.</p>					

	Building ID: BBC-v	GPS Location (E, N):	0524405	4837886	Location Error: 5 m
<p>Description:</p> <p>Wooden barn with east side collapsed.</p> <p>One partially remaining room.</p> <p><u>Bat habitat Notes:</u> Entrances everywhere, but no decent roosting space.</p>					
<p>Bat Use: None.</p>					
<p>Recommendations: None.</p>					

L	Building ID: BBC-w	GPS Location (E, N):	0524490	4837971	Location Error: 1 m
<p>Description:</p> <p>Small (5m X 9m) log cabin with chinking. Plank and tarp roof with remnants of sod. Two doors (east and north, with porch). Four windows.</p> <p>Two doors enter separate and unconnected rooms.</p> <p><u>Bat habitat Notes:</u> Main entrance point would be a large hole over the north door.</p>					
Bat Use: Low bat use based on scattered guano. No bats seen, so likely used as a night roost.					
Recommendations: Could ANABAT® the main emergence point, but follow-up not critical.					

	Building ID: BBC-x	GPS Location (E, N):	0524514	4838045	Location Error: 6 m
<p>Description:</p> <p>Small (4m X 5m) log cabin. One door and one window. Sheet-shingled roof with chimney.</p> <p>Beam and plank ceiling. One room.</p> <p><u>Bat habitat Notes:</u> Possible bat entrance through chimney.</p>					
Bat Use: None.					
Recommendations: None.					

H	Building ID: BBC-y	GPS Location (E, N):	0524531 4838031	Location Error: 1 m
<p>Description:</p> <p>Large (roughly 25m X 37m) log building with worn chinking. Deteriorating, sheet-shingle roof. Several doors (one on north with porch). Many windows. Collapsed chimney on north side and boarded-up chimney on south side.</p> <p>Beam and plank ceiling, collapsed in places. 8+ rooms.</p> <p><u>Bat habitat Notes:</u> Many emergence points through roof, doors and walls.</p>				
<p>Bat Use: High bat use based on guano accumulation and visual and audible confirmation of at least 21 roosting little brown bats. Definitely used as a day-time roost and probably a maternity roost.</p>				
<p>Recommendations: It would be hard to conduct a comprehensive ANABAT® survey, since there are many possible emergence points. However, active acoustic survey of several emergence points might document use by additional species. Also, an internal count early in the breeding season might yield a count of pups and confirm its status as a maternity colony. Consider preserving this building in its current state as a bat roost.</p>				

	Building ID: BBC-z	GPS Location (E, N):	0524510	4838056	Location Error: 13 m
<p>Description:</p> <p>Small (4m X 5m) log cabin with chinking. Tin roof with chimney. One door and two windows.</p> <p>Beam and plank ceiling. One room.</p> <p><u>Bat habitat Notes:</u> Possible bat entrance through chimney.</p>					
Bat Use: None.					
Recommendations: None.					

	Building ID: BBC-aa	GPS Location (E, N):	0524503	4838046	Location Error: 3 m
<p>Description:</p> <p>"Cabin 9." Small log cabin with chinking. One door with porch on south side. Two windows. Sheet-shingle roof with stone chimney on east side.</p> <p>Beam and plank ceiling. One room with closed chimney. Contains: old shelves. Large bird nest.</p> <p><u>Bat habitat Notes:</u> Some open entry points.</p>					
Bat Use: None.					
Recommendations: None.					

L	Building ID: BBC-bb	GPS Location (E, N):	0524516 4838076	Location Error: 7 m
<p>Description:</p> <p>Small log cabin. One door and 3 windows. Sheet-shingle roof with chimney.</p> <p>Beam and plank ceiling. Stovepipe hole in ceiling. Chimney open.</p> <p><u>Bat habitat Notes:</u> Possible entrance points through the stovepipe hole and chimney.</p>				
<p>Bat Use: Low bat activity based on scatter guano. Likely a night roost or day roost for a few bats during other parts of the season.</p>				
<p>Recommendations: Conduct active ANABAT® recordings to document level of use and species composition, but follow-up not critical.</p>				

Building Accounts: White Grass Ranch

H	Building ID: WGa	GPS Location (E, N):	0518226	4833773	Location Error: 6 m
<p>Description:</p> <p>Large (main?) cabin. Chinked log construction. Plastic over wood-shingled roof. Chimneys on north and west. Porches on east.</p> <p>Beam and plank A-frame ceiling. 7 rooms.</p> <p><u>Bat habitat Notes:</u> Many internal hiding spaces for bats. Many exit points through holes in roof. Difficult to passively ANABAT due to number of exit points.</p>					
		<p>Bat Use: Light to moderate use based on guano accumulation. However, a bachelor <i>Corynorhinus townsendii</i> was observed day-roosting on the ceiling in the large northern room (see photo), making it an important building for local bats.</p>			
<p>Recommendations: This building should be left intact and undisturbed. <i>C. townsendii</i> is recognized as a sensitive species by most state and federal agencies in Wyoming (e.g., BLM, USFS, WYNDD, WYGFD). They require large, open roosting structures and are sensitive to disturbance.</p>					

L	Building ID: WGb	GPS Location (E, N):	0518252	4833826	Location Error: 5 m
<p>Description:</p> <p>Small (3m X 15m) cabin. Chinked log construction. Plastic sheet over wood-plank roof. Main entrance faces south.</p> <p>Beam and plank A-frame ceiling. Two rooms and collapsed bathroom.</p> <p><u>Bat habitat Notes:</u> Main emergence point through gap over north door.</p>					
<p>Bat Use: Light use based on scattered guano. No visual or audible identification of bats. Probably a night roost for foraging bats. Not likely a critical roost building.</p>					
<p>Recommendations: None.</p>					

H	Building ID: WGc	GPS Location (E, N):	0518301 4833847	Location Error: 7 m
<p>Description:</p> <p>Large cabin. Chinked log construction. Plastic sheet over wood-shingled roof. Chimneys on north and west. Insulation in one room.</p> <p>6+ rooms. Beam and plank A-frame ceiling.</p> <p><u>Bat habitat Notes:</u> Many roosting places and emergence points. Warm interior. Hard to ANABAT due to numerous openings.</p>				
		<p>Bat Use: High bat use based on substantial guano accumulation and numerous bats seen flying and roosting along ceiling beams and walls (see photo), which appeared to be <i>Myotis lucifugus</i>. Based on its warm temperature and the number of bats seen, it is likely maternity colony for over 100 bats.</p>		
<p>Recommendations: This seems to be a substantial maternity colony and therefore worth preserving. Emergence counts may be valuable to determine number of bats present, but difficult due to the number of emergence points. Other bats can cohabitate with <i>M. lucifugus</i>, so follow-up surveys with ANABAT® should be done to determine species composition.</p>				

M	Building ID: WGd	GPS Location (E, N):	0518266 4833829	Location Error: 5 m
<p>Description:</p> <p>Small (4m X 7m) cabin. Log construction. Plastic sheet over wood-plank roof. Main entrance faces southeast.</p> <p>Beam and plank A-frame ceiling. Two rooms. Wood stove.</p> <p><u>Bat habitat Notes:</u> Two main emergence points; above the front door and in the wall where the bathroom addition joins the main room.</p>				
<p>Bat Use: Moderate bat use based on scattered guano with one area of accumulation underneath the main roof beam. However, no bats were seen or heard. It could be a day roost that was recently vacated, or it could be a night roost.</p>				
<p>Recommendations: Maybe valuable to search again to determine day-night use and conduct acoustic monitoring to determine species composition.</p>				

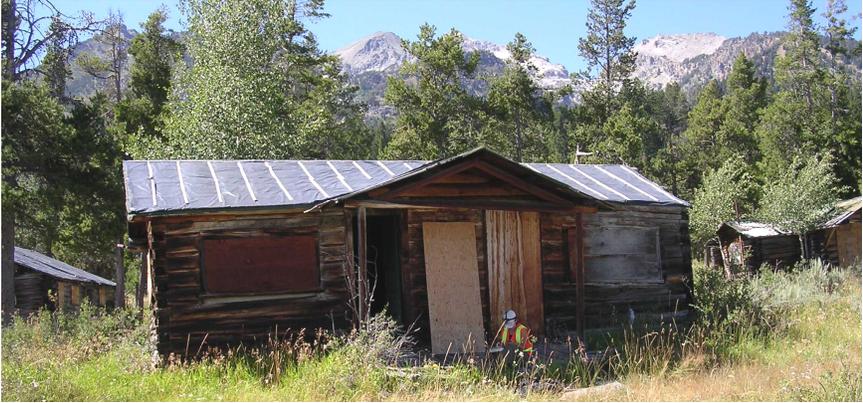
M	Building ID: WGe	GPS Location (E, N):	0518290	4833870	Location Error: 8 m
<p>Description: Small (4m X 6m) cabin. Chinked log construction. Plastic sheet over wood-plank roof. Beam and plank A-frame ceiling. Two rooms.</p> <p>Bat habitat Notes: There are several emergence points; stovepipe hole in roof and cracks in the ceiling.</p>					



Bat Use: Light to moderate bat use based on guano accumulation. A few bats seen; most likely *Myotis lucifugus*, making it a day roost but not necessarily a maternity roost.

Recommendations: Maybe valuable to search again earlier in the season (e.g., early July) to determine whether it is a maternity colony. Other bats may cohabitate with *M. lucifugus*, so follow-up surveys could be done to determine if sensitive species are present. An emergence count could be done to estimate the number of bats roosting in the building.

L	Building ID: WGf	GPS Location (E, N):	0518271	483380	Location Error: 6 m
<p>Description: Small (7m X 9m) duplex cabin. Chinked log construction. Asphalt sheet roof with 3 stovepipes. Main entrance faces southwest. Beam and plank A-frame ceiling. Ceiling in bathroom partially collapsed.</p> <p>Bat habitat Notes: Main emergence point is likely the stovepipe in the south room.</p>					
<p>Bat Use: Low level of bat use based on scattered guano and insect parts in south room. Most likely a night roost where bats stop to digest food. Based on size of guano, the bats could be <i>Eptesicus fuscus</i>.</p>					
<p>Recommendations: Likely not a major roost. Maybe valuable to use acoustic monitoring to determine species composition.</p>					

	Building ID: WGg	GPS Location (E, N):	0518298	4833904	Location Error: 10 m
<p>Description:</p> <p>Small (4m X 8m) duplex cabin. Log construction. Plastic sheet over plywood roof.</p> <p>Beam and plank A-frame ceiling. Two rooms and a bathroom.</p> <p><u>Bat habitat Notes:</u> The main emergence point is a hole hear the ceiling beam in the north room.</p>					
Bat Use: No evidence of bat use.					
Recommendations: None.					

H	Building ID: WGh	GPS Location (E, N):	0518263	4833905	Location Error: 2 m
<p>Description:</p> <p>Larger building, possibly the main showers. Chinked log construction, with 4 doors. Plastic sheet over plank roof.</p> <p>Various ceiling structures with attic space. Many rooms; boiler room, shower stalls, laundry facilities.</p> <p><u>Bat habitat Notes:</u> Many emergence points, but largest two are an open door on the east and a broken wall on the south. Attic is hot (good for maternity roost) but does not have much guano. Possibly difficult to ANABAT due to many holes.</p>					
		<p>Bat Use: Moderate to high bat use based on scattered guano throughout the building. Visual observations were made of two <i>Myotis lucifugus</i> and one <i>Corynorhinus townsendii</i> (see photo). <i>M. lucifugus</i> were seen the attic and the main shower rooms, while <i>C. townsendii</i> was seen roosting in a large, open "closet" off the "linen room" in the west side of the building.</p>			
<p>Recommendations: <i>C. townsendii</i> is recognized as a sensitive species by most state and federal agencies in Wyoming (e.g., BLM, USFS, WYNDD, WYGFD). They require large, open roosting structures and are sensitive to disturbance. Also, it seems to be a fairly consistent day and/or night roost for other species. Try to conduct acoustic monitoring at the western door and/or re-survey earlier in the season to determine species composition. Consider leaving this building intact and undisturbed.</p>					

Building ID: WGi	GPS Location (E, N):	0518277 4833923	Location Error: 8 m
<p>Description:</p> <p>Small (3m X 6m) cabin. Log construction. Plank roof with chimney.</p> <p>Beam and plank A-frame ceiling. One room and a bathroom.</p> <p><u>Bat habitat Notes:</u> Many possible emergence holes.</p>			
Bat Use: None.			
Recommendations: None.			

H Building ID: WGj	GPS Location (E, N):	0518291 4833944	Location Error: 2 m
<p>Description:</p> <p>Medium-sized cabin. Log construction. Asphalt sheet roof with 2 stovepipes. Porch and 3 exterior doors, with the main entrance facing east.</p> <p>Beam and plank A-frame ceiling. 3 rooms and a bathroom.</p> <p><u>Bat habitat Notes:</u> Roosts mainly along center ceiling beams, but guano scattered everywhere. Emergence points are likely through 2 un-capped stovepipe holes.</p>			
	<p>Bat Use: High bat use based on guano piles (see photo) and scattered guano throughout the building. No visual or audible observations. Probably a long-term night roost, but could easily be a day roost that was used earlier in the summer. Some guano is large, suggesting <i>Eptesicus fuscus</i>. ANABAT® recordings were attempted on 10 Aug 2004, but equipment malfunction resulted in only a few calls early in the evening, which included <i>M. lucifugus</i>, <i>E. fuscus</i>, and <i>M. thysanodes</i>.</p> <p>Recommendations: This roost structure should be kept intact. It seems to be a significant roost and one of the few that receive regular <i>E. fuscus</i> use. For further information, one might consider unobtrusively visiting it earlier in the season to confirm night versus day use and conducting emergence counts to determine the number of bats currently using it.</p>		

L	Building ID: WGk	GPS Location (E, N):	0518242	4833911	Location Error: 9 m
<p>Description:</p> <p>Small (4m X 7m) duplex cabin. Chinked log construction. Asphalt sheet roofing with one stovepipe.</p> <p>Beam and plank A-frame ceiling with some insulation. Two rooms and a bathroom.</p> <p><u>Bat habitat Notes:</u> The un-capped stovepipe represents the main emergence point.</p>					
<p>Bat Use: Low bat use based on some guano. Not likely a valuable roost structure.</p>					
<p>Recommendations: None.</p>					

M	Building ID: WGI	GPS Location (E, N):	0518223	4833881	Location Error: 1 m
<p>Description:</p> <p>Small cabin with large east-facing front porch. Chinked log construction. Asphalt sheet roofing.</p> <p>Beam and plank A-frame ceiling with some insulation. One room and a bathroom.</p> <p><u>Bat habitat Notes:</u> Stovepipe holes and holes in the bathroom are likely the main emergence points.</p>					
		<p>Bat Use: Moderate bat use as a day roost based on scattered guano and visual identification of three <i>Myotis lucifugus</i> roosting along the main ceiling beam (see photo). There is, however, much old staining on the ceiling beams suggesting it may have been more heavily used in the past.</p> <p>Recommendations: Conduct acoustic monitoring and or another site visit early in the summer to determine level of current use and species composition.</p>			

H	Building ID: WGm	GPS Location (E, N):	0518237 4833900	Location Error: 10 m
<p>Description:</p> <p>Small (4m X 8m) duplex cabin. Chinked log construction. Asphalt sheet roofing with 4 stovepipes.</p> <p>Beam and plank A-frame ceiling with some insulation. Two rooms and a bathroom.</p> <p>Bat habitat Notes: The un-capped stovepipes and a hole do to collapsing ceiling represent the main emergence points.</p>				
		<p>Bat Use: Moderate to High bat activity based on much guano accumulation and direct observations of at least 10 <i>Myotis lucifugus</i> (see photo).</p> <p>Recommendations: Maybe valuable to search again earlier in the season (e.g., early July) to determine whether it is a maternity colony. Other bats may cohabitate with <i>M. lucifugus</i>, so follow-up surveys could be done to determine if sensitive species are present. An emergence count could be done to estimate the number of bats roosting in the building.</p>		