

UNITED STATES GOVERNMENT

Memorandum

6680

TO : Wildlife Non-Game File

DATE: January 13, 1978

FROM : Eric Coombs - Wildlife Tech.

SUBJECT: Mt. Trumbull - Kaibab Squirrel and Bird Nest Boxes

A total of 40 nest boxes were constructed by YCC personnel to be placed in the Mt. Trumbull and Mt. Logan area. The purpose of these boxes is to provide additional nesting habitat for the Kaibab Squirrel and various species of birds, and to be used as a nest monitoring project. A total of 14 squirrel boxes and 12 bird nest boxes were secured in various trees in the area. Trees were marked with aluminum tags designating the site number, either along the road or the nest tree itself. Road markers were used in areas of dense Ponderosa Pine, (Pipo), and in this case the nest tree was also marked. Tag and nest trees were sprayed with yellow spray paint. Boxes are about 20 feet up on shady side of trees.

Sections containing nest boxes (see attached maps)

T35N R8W Sec. 33. KS-1,2,4,5,6.

T35N R8W Sec. 34 KS-3.

T35N R8W Sec. 5 KS-7 BN-1,2,3,4,5,6,7a.

T34N R3W Sec. 7 BN-8,9,10,11.

T34N R9W Sec. 12 KS-8,9,10.

T34N R8W Sec. 18 BN-12 KS-11,12.

T34N R8W Sec. 17 KS-13,14.

KS - Kaibab squirrel nest box.

BN - Bird nest box.

Locations of Nest Boxes in Mt. Trumbull Area.

Start at big springs and Mt. Trumbull road. Proceed east on Mt. Trumbull road.

KS-1 0.1 mi. E on S.W. side 135' in Pipo.

KS-2 0.24 mi E. on N. side 65' in Pipo

Take mileage reading at cattle guard proceed east.

KS-3 0.11 mi. E. on N. side 30 paces in Pipo.



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

Turn around and go back to cattle guard. Take mileage here and proceed west toward administrative site.

KS-4 0.3 mi. W. of Cattle Guard on SW side 18 paces in Pipo.

Go to Big Springs Road and turn South. Take mileage here proceed.

KS-5 0.32 mi. S. on W. side 30 steps in Pipo.

KS-6 0.52 mi. S. on N. side 40 steps in Pipo.

BN-1 1.53 mi. on W. side 40 steps in draw in clearing. Crooked tree.

BN-2 1.74 mi. in seeding enclosure, (weather station). NE side in Pipo.

BN-3 in enclosure. NW corner by edge of clearing in Pipo.

BN-4 in enclosure. Outer mid-W edge in oak, Quga.

BN-5 in enclosure. S central end, in long Pipo.

BN-6 in enclosure. SE corner in Pipo by edge.

After checking enclosure, go NW on N road from enclosure to a clearing about 0.5 mi. NW.

KS-7 In W. edge of clearing midway through.

BN-7a. In clearing on E. side in Pipo.

Go back to weather station enclosure. From enclosure, go south on Mt. Logan Road to allotment fence by Lava Flow. Take mileage.

BN-76 0.23 mi. S. of fence. 105 steps west in large oak, end of clearing. Proceed up the Mt. Logan Road to AGFD Wildlife catchment with Aspen Stand, about 1.5 mi.

BN-8 In Aspen stand in N.E. corner in Aspen, Potr.

BN-9 In Aspen stand, S. end by catchment in Potr.

BN-10 In center of Aspen stand, in Potr.

Go N.W. from catchment about 0.5 mi. to saw mill flat.

BN-11 At N.E. end of clearing, by old wood piles in large Pipo.

Go back to S.E. end of clearing and take road going west to intersect upper part of Mt. Logan Road. Turn North and take mileage at intersection.

KS-8 0.22 mi. N. on Logan Rd. on W. side 100' in Pipo.

Return back to intersection of Mt. Logan Rd. and Saw Mill Flat Rd.
Proceed south on Mt. Logan Rd. to intersection of Big Springs Road.
(about 1 mile). Take mileage here and go S.E. on Big Springs Rd.

BN-12 0.18 mi. S.E. on E. side in clearing, 100' in long Pipo.

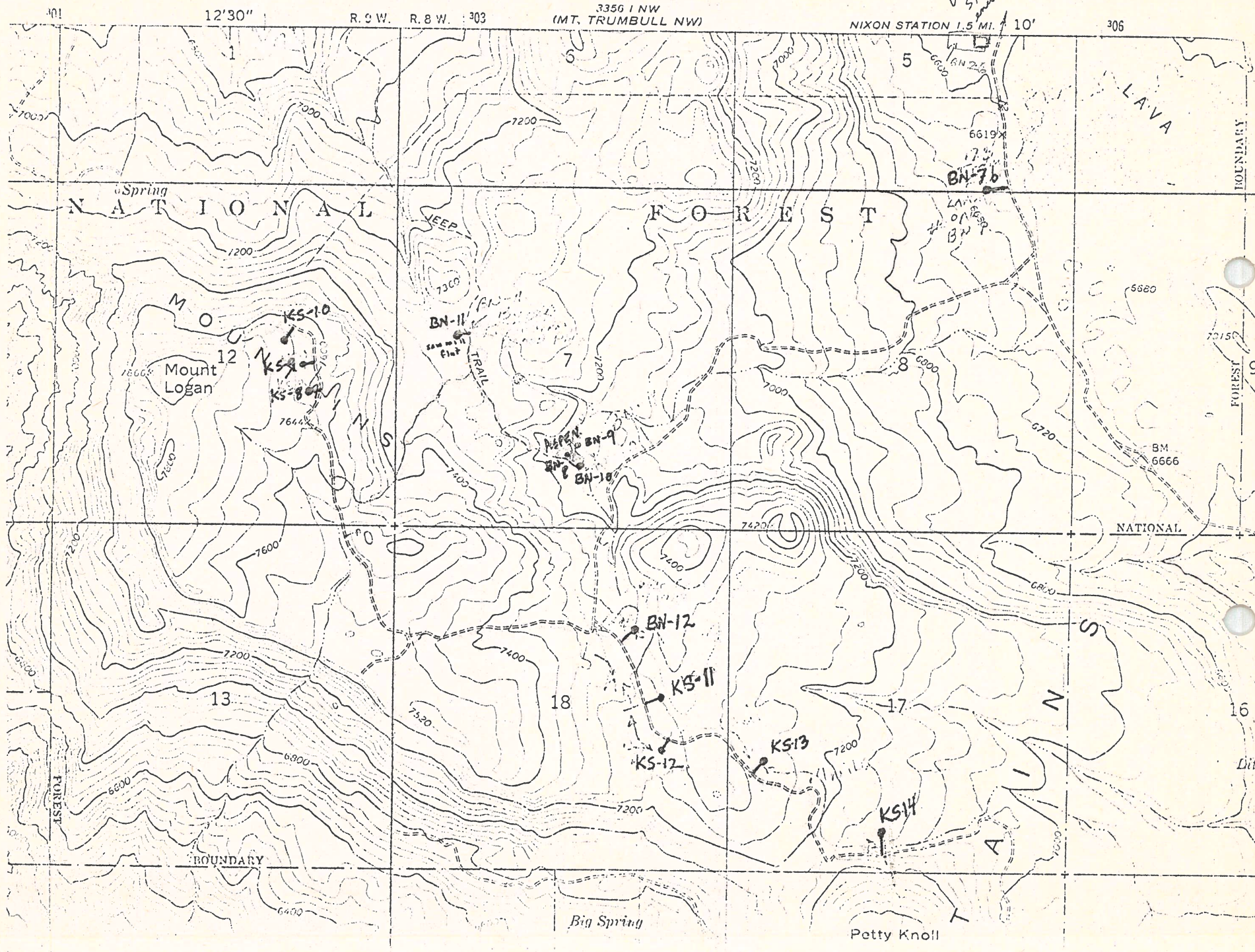
KS-11 0.7 mi. S.E. on E. side 150' in Pipo.

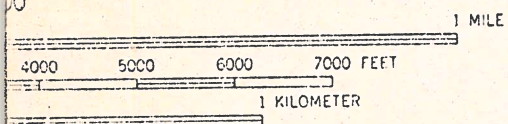
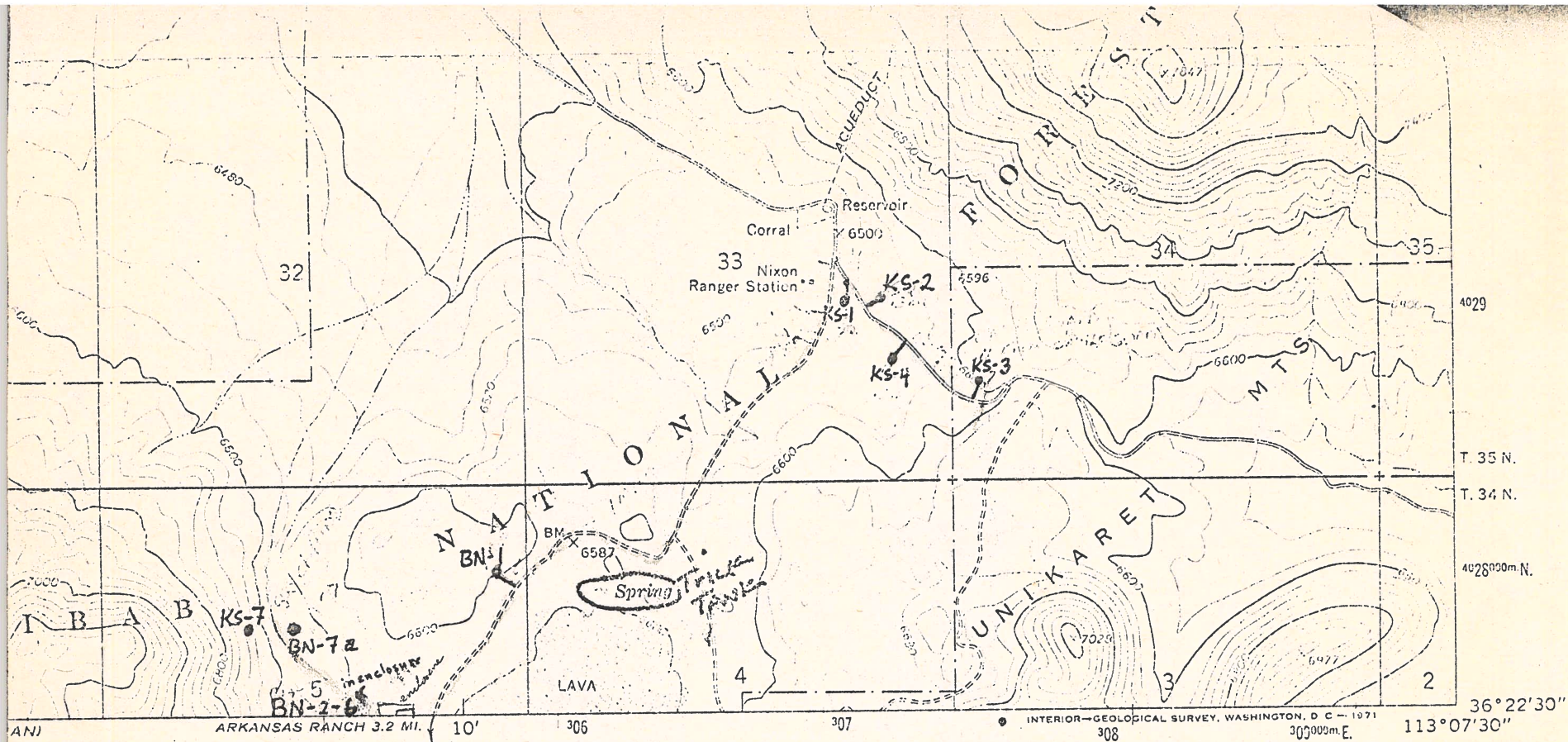
KS-12 0.95 mi. S.E. on S. side 80' in Pipo.

KS-13 1.15 mi. S.E. on N.E. side in Pipo.

KS-14 1.6 mi. S.E. on N. side in Pipo.

NEST BOXES





QUADRANGLE LOCATION

ROAD CLASSIFICATION
 Light-duty ————— Unimproved dirt —————

MT. TRUMBULL NW, ARIZ.
 N3622.5—W11307.5/7.5

1967

AMS 3356 I NW—SERIES V899

MAP ACCURACY STANDARDS
 COLORADO 80225, OR WASHINGTON, D. C. 20242
 NO SYMBOLS IS AVAILABLE ON REQUEST

NEST BOXES

NEST SPECIFICATIONS

NEST LOCATION	NEST TYPE		1ST CO DOMIN		2ND CO DOMIN		3RD CO DOMIN		4TH CO DOMIN		5TH CO DOMIN		6TH CO DOMIN		NEXT EXPOSURE	WRITE UP NO#
			RT.	DBH	DBH	SPAC	DBH	SPAC	DBH	SPAC	DBH	SPAC	DBH	SPAC		
PT. TRUMBULL T33N															S.W.	SPIKE TOP
S.E. 1/2 SEC. 27 R9W			40'	28 1/2"	30'	33 1/2"	24'	27"	18'							
UT TRUMBULL T33N															N.W.?	
J.W. 1/2 SEC. 26 R9W			80'	16 1/2"	30'	27 1/2"	0	24 1/2"	3'	16"	6'	25 1/2"	18'			
NIXON SPR. T33N			60'	29 1/4"	30'	22 3/4"	9'	27"	24'	25 1/2"	24'	29 1/2"	33'		N.W.	
1/4 NW 1/4 SEC. 27 R9W															N	
DEATH VALLEY LAKE T34N																
1/4 SE 1/4 SEC. 10 R9W			37"		32"	41'	31"	44'	35"	46'	26 1/2"	56'	23"	65'		
MT. LOGAN T34N																
1/4 SW 1/4 SEC. 17 R9W															N.W.	
MT. LOGAN T34N																
1/4 SE 1/4 SEC. 17 R9W															N.E.	

FEED TREE DBH

11 1/2"
14"
11"
15"
13.5"
11"
14.75"
9"
5"
12"

AVG. 11.6"
DIA.

RANGE
5" → 14.25"

1
12
24
40
36

UNITED STATES GOVERNMENT

6680

Memorandum

TO : Non-Game File

DATE: September 29, 1978

FROM : Non-Game Biologist

SUBJECT: Nest Box Inspections

Twenty Six nest boxes were inspected for the first time on June 25, 1978 in the Mt. Logan Area.

Only one nest box was in use and contained a flammulated owl with three downy young.

A few of the boxes showed some use, however none were used for nesting.

These boxes should continue to be inspected and repaired as necessary on a yearly basis.

Approximately six nest boxes will be installed on Black Rock this winter.

NMiddlebrook:ab



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

NEST BOX INFORMATION SHEET

CHECKED JUNE 25 78.

Nest No.	Map No.	Species Utilizing Nest	Type of Nest	Type of Nesting Mat. Added	Clutch Size Litter Size	Photo No.	REMARKS
KS-2		NONE	NONE	NONE			WAS ADDED IN BOX NO NESTING MATERIAL
KS-4		NONE	NONE	NONE			WAS ADDED WAS NO NESTING MATERIAL
KS-3		FLAMULATED OWL 3 YOUNG	BOWL TYPE CK	CK LATER	3 young DOWNY STAGE		MOTHER ON NEST (KALAB SO NEST JUST SOUTH OF BOX) YOUNG STILL IN DOWN DOCUMENT TAG NEEDS REFRACING
KS-1		NO USE	NONE	ADDED MATERIAL			
KS-5		NO USE	NONE	"			DOWNY FEATHERS IN NEST
KS-6		NO USE	NONE	"			NO - USE
BN-1		NO USE	NONE	"			SLIGHT DEPRESSION.
BN-2		NO USE	NONE	"			
BN-3		NO USE	NONE	"			NO RECENT USE BIRD DROPPINGS PRESENT
BN-4		NO USE	NONE	"			NO RECENT USE
BN-5		NO USE	NONE	BOWL FORMED			NO RECENT USE
BN-6		NO USE	NONE	NONE ADDED			NO RECENT USE
BN-7		NO USE	NONE	"			NO RECENT USE
BN-8		NO USE	NONE	MATERIAL ADDED			NO RECENT USE REPAINT TREE TAG
BN-9		NO USE	NONE	"			NO RECENT USE. FLICKER FEATHER IN BOX (MOVE UP HIGHER ON TREE)
BN-10		NO USE	NONE	"			NO RECENT USE FLICKER USE
KS-8		NO USE	NONE	"			NO USE (MOVE UP TREES HIGHER)
KS-9		NO USE	NONE	"			NO USE " "
KS-10		NO USE	NONE	"			NO USE

KAIBAB SQUIRREL

NEST INFORMATION SHEET

DATE: JUNE 28, 78 LOCATION: S 34^{SW 1/4} R 8 W T 35 N OBSERVED BY: NM SS
150' WEST OF NEST BOX KS-3

Elevation: 6600'

Habitat Type:

a) Overstory PIPO, JUNIPER, PINON

b) Understory ART, GAMBEL OAK

Nest Tree:

a) C.B.H. 89 1/2" b) Ht. of nest 30' c) Tree ht. 65'

d) Nest exposure SE

* SEASONAL NEST. NEST 12' FROM TRUNK, NO NEW
 SUB MATERIAL ADDED THIS YEAR. (1978)
 CODOMINATE TREES**

Tree*	C DBH	Dist. from Nest Tree
1st	13"	
2nd	28"	
3rd	26"	
4th	24"	
5th	35"	
6th	12", 22", 32"	

85' TO
45'
HT.

Tree*	DBH	Dist. from Nest	No. of Clippings
1st			
2nd			
3rd			
4th			
5th			
6th			

* SINGLE NEST TREE IS LARGEST. ASSOCIATED TREES ARE MUCH
 SMALLER (12 TO 35" CBH). VERY LITTLE FEEDING IN SMALLER
 SUBDOMINATE TREES.

MUSHROOM DATA:

Tree*	No. of Holes	Ave. Depth of Holes	DBH of Tree	Dist. From Nest Tree	Mushrooms Collected
1st					
2nd					
3rd					
4th					
5th					

* LITTLE MUSHROOM DIGGING EVIDENT

*Trees should be ranked according to distance from nest tree.

** Codominate trees and those trees in association with the nest tree which display similar characteristics and have overlapping crowns.

Diagram of nest tree and codominates.

Photographs of nest tree and stand.

KALIBAB SQUIRREL

NEST INFORMATION SHEET

DATE: 27 JUNE 78 LOCATION: SW 1/4 S 7 R 8 W T 34 N OBSERVED BY: AM

Elevation: 7380'

Habitat Type:

a) Overstory PiPo

b) Understory AFR, LOUST, CAMPBELL

Nest Tree:

a) C B.H. 47" b) Ht. of nest 22' c) Tree ht. 50'

d) Nest exposure N.E.

CODOMINATE TREES**

Tree*	C DBH	Dist. from Nest Tree
1st	38"	3'
2nd	32"	10' 4"
3rd	49"	8' 10"
4th	36"	14' 7"
5th	53"	16'
6th		

FEED TREES

Tree*	C DBH	Dist. from Nest	No. of Clippings
1st	36"	12'	
2nd	42"	10'	
3rd	42"	14'	
4th	28"	16'	
5th	15"	20'	
6th	32"	28'	

* MAJORITY OF FEED TREES WERE LOCATED WITHIN 48' OF THE NEST TREE AND IN THE SAME STAND.
MUSHROOM DATA: *

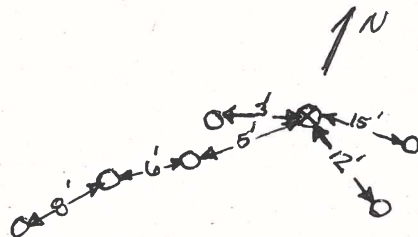
Tree*	No. of Holes	Ave. Depth of Holes	DBH of Tree	Dist. From Nest Tree	Mushrooms Collected
1st					
2nd					
3rd					
4th					
5th					

*Trees should be ranked according to distance from nest tree.

** Codominate trees and those trees in association with the nest tree which display similar characteristics and have overlapping crowns.

Diagram of nest tree and codominates.

- * FEED TREES AND NEST TREES ARE IN SAME STAND AND WERE DIFFICULT TO SEPARATE, THE NEST APPEARS TO BE A SEASONAL (SUMMER ETC.) AND IS VERY SMALL COMPARED TO REPRODUCTIVE STANDS AND NESTS WHICH ARE MUCH LARGER.



- * ABOUT 5-8 TREES ARE HEAVILY CLIPPED WITH MANY TWIGS PEAKED

Photographs of nest tree and stand.

KAIBAB SQUIRREL

NEST INFORMATION SHEET

DATE: DEC. 77 LOCATION: S26 N $\frac{1}{2}$ R 8W T35N OBSERVED BY: WILHELM MIDDLEBROOK

Elevation: 7400

Habitat Type: MT. THUMBALL

- a) Overstory PONDEROSA PINE (AREA SURROUNDED BY DOG HAIN STANDS)
 b) Understory LITTER SOME GRASS, FEW SHRUBS.

Nest Tree:

- a) D.B.H. 16 $\frac{1}{2}$ " b) Ht. of nest 30' c) Tree ht. 80'
 d) Nest exposure N.W.

CODOMINATE TREES**

Tree*	DBH	Dist. from Nest Tree
1st	<u>27 $\frac{1}{2}$"</u>	<u>ϕ</u>
2nd	<u>24 $\frac{1}{2}$"</u>	<u>3'</u>
3rd	<u>16"</u>	<u>6'</u>
4th	<u>25 $\frac{1}{2}$"</u>	<u>18'</u>
5th		
6th		

FEED TREES

Tree*	DBH	Dist. from Nest	No. of Clippings
1st			
2nd			
3rd			
4th			
5th			
6th			

MUSHROOM DATA:

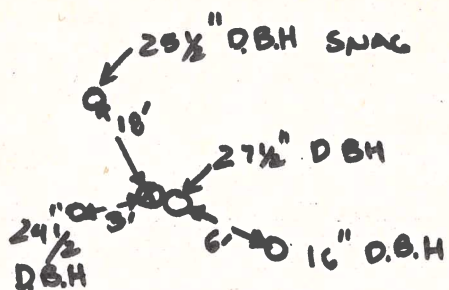
Tree*	No. of Holes	Ave. Depth of Holes	DBH of Tree	Dist. From Nest Tree	Mushrooms Collected
1st					
2nd					
3rd					
4th					
5th					

*Trees should be ranked according to distance from nest tree.

**Codominate trees and those trees in association with the nest tree which display similar characteristics and have overlapping crowns.

Diagram of nest tree and codominates.

⊙ = NEST TREE



Photographs of nest tree and stand.





KAIBAB SQUIRREL

NEST INFORMATION SHEET

DATE: Dec 77 LOCATION: S 27 1/2° R 8W T 33N OBSERVED BY: WILHELM MIDDLEBROOKElevation: 7500Habitat Type: MT. TRUMBULLa) Overstory PONDEROSA PINE SCAT P-Jb) Understory GRASS, FEW SHRUBS, MOSTLY LITTER

Nest Tree:

a) D.B.H. 28 1/2 b) Ht. of nest 30' c) Tree ht. 40'd) Nest exposure S.W.

CODOMINATE TREES**

Tree*	DBH	Dist. from Nest Tree
1st	<u>33 1/2"</u>	<u>24'</u>
2nd	<u>27"</u>	<u>36'</u>
3rd		
4th		
5th		
6th		

FEED TREES

Tree*	DBH	Dist. from Nest	No. of Clippings
1st			
2nd			
3rd			
4th			
5th			
6th			

MUSHROOM DATA:

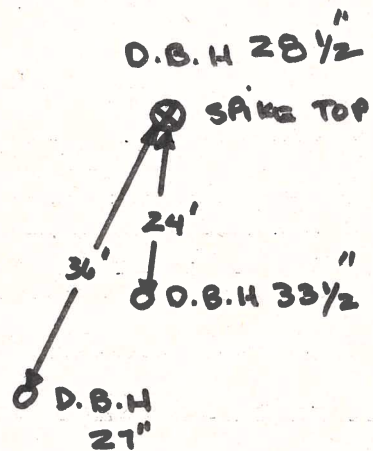
Tree*	No. of Holes	Ave. Depth of Holes	DBH of Tree	Dist. From Nest Tree	Mushrooms Collected
1st					
2nd					
3rd					
4th					
5th					

*Trees should be ranked according to distance from nest tree.

**Codominate trees and those trees in association with the nest tree which display similar characteristics and have overlapping crowns.

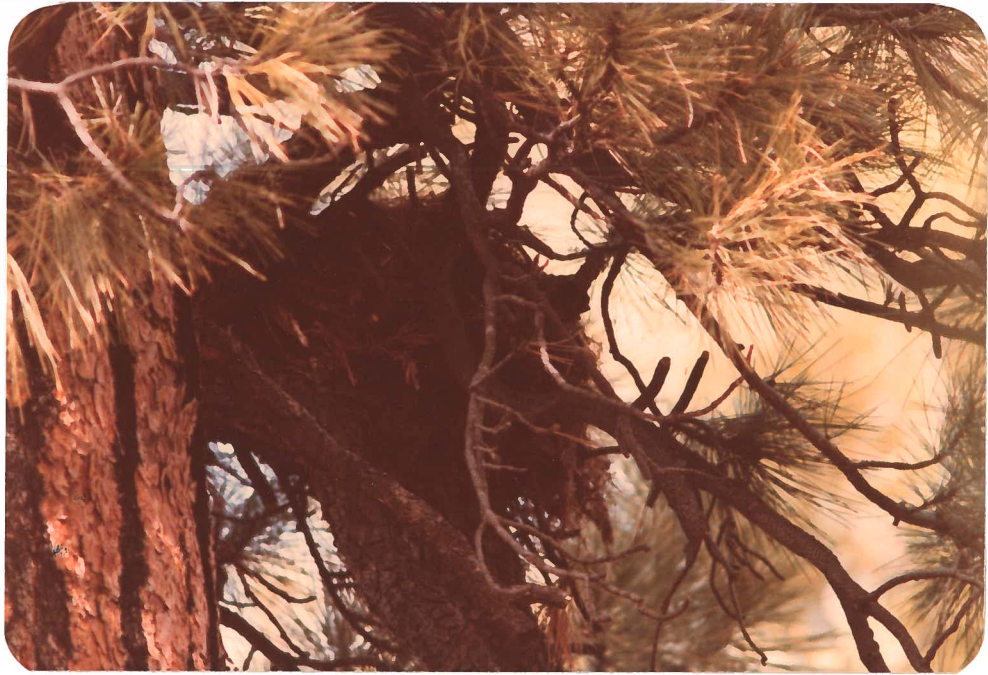
⊗ = NOT TREE

Diagram of nest tree and codominates.



Photographs of nest tree and stand.





NEST IN SPIKE TOP

KAIBAB SQUIRREL

NEST INFORMATION SHEET

DATE: NOV. 19, 77 LOCATION: SW $\frac{1}{4}$ NW $\frac{1}{4}$ S $\frac{1}{2}$ Sec 27 R 8W T 33N OBSERVED BY: SLONE MiodhaBreck

Elevation: 7300

Habitat Type:

- a) Overstory PONDROSA PINE, SCAT. P-J, GAMBEL OAK
 b) Understory MOSTLY LITTER, SCAT. GRASS, ARTH

Nest Tree:

- a) D.B.H. 29 $\frac{1}{4}$ " b) Ht. of nest 30' c) Tree ht. 60'
 d) Nest exposure N.W.

CODOMINATE TREES**

Tree*	DBH	Dist. from Nest Tree
1st	22 $\frac{3}{4}$ "	9'
2nd	27"	24'
3rd	25 $\frac{1}{2}$ "	24'
4th	29 $\frac{1}{2}$ "	33'
5th		
6th		

FEED TREES

Tree*	DBH	Dist. from Nest	No. of Clippings
1st			
2nd			
3rd			
4th			
5th			
6th			

MUSHROOM DATA:

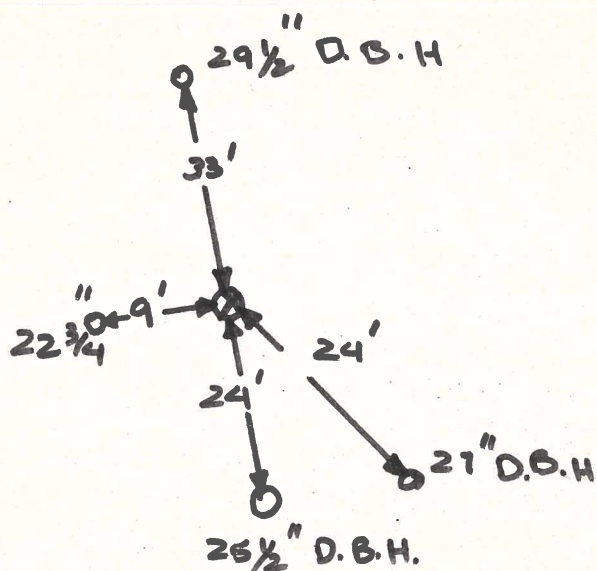
Tree*	No. of Holes	Ave. Depth of Holes	DBH of Tree	Dist. From Nest Tree	Mushrooms Collected
1st					
2nd					
3rd					
4th					
5th					

*Trees should be ranked according to distance from nest tree.

**Codominate trees and those trees in association with the nest tree which display similar characteristics and have overlapping crowns.

Diagram of nest tree and codominates.

⊗ = NEST TREE



Photographs of nest tree and stand.





NIXON SPRING
STAND



NIXON SPRING NEST

NEST BOX INFORMATION SHEET

[illegible]

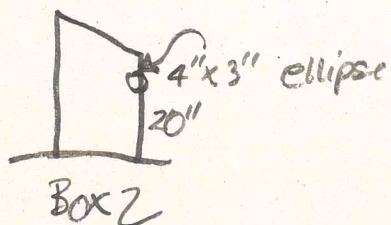
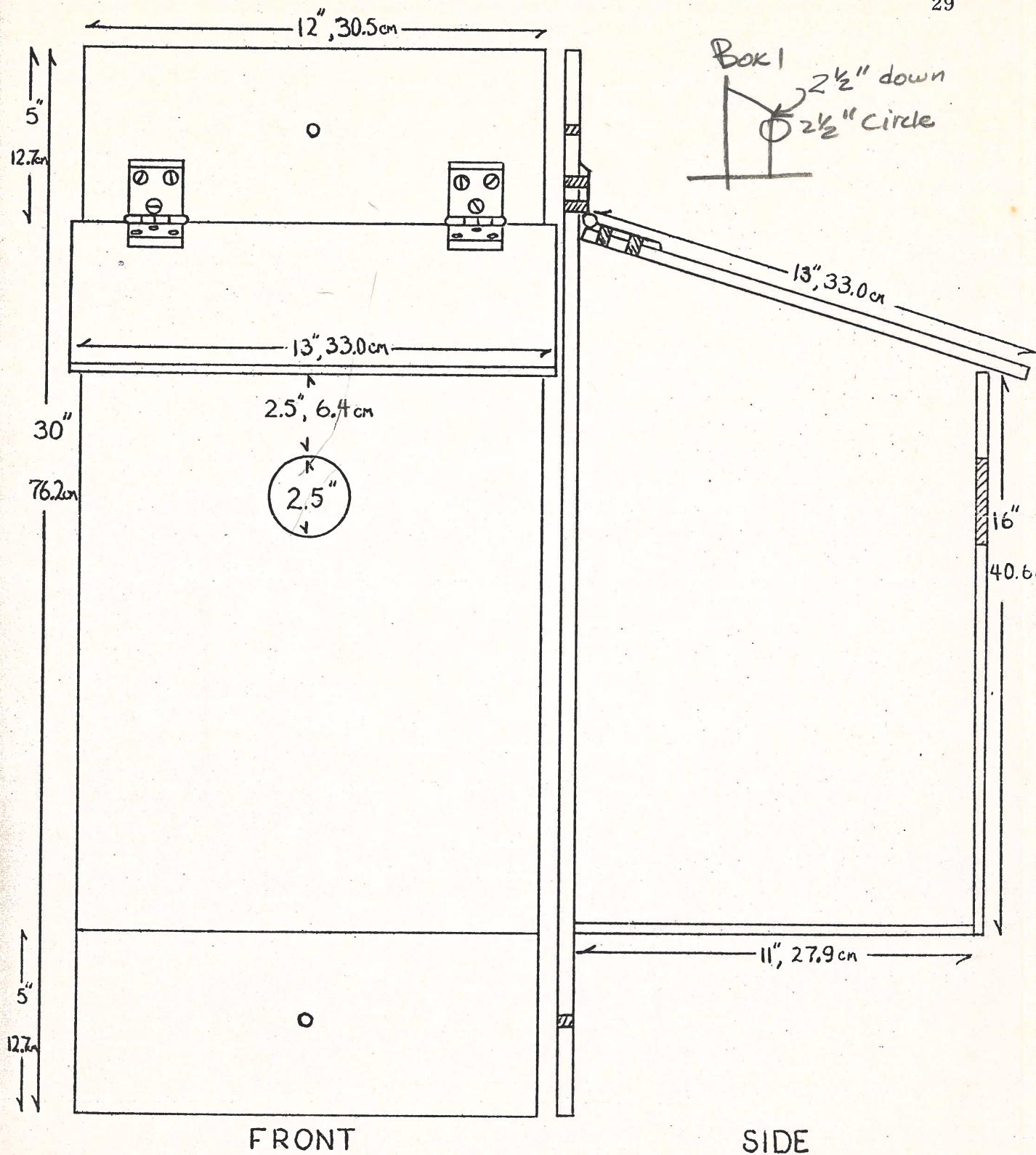


Illustration 1

Nest Box Dimensions