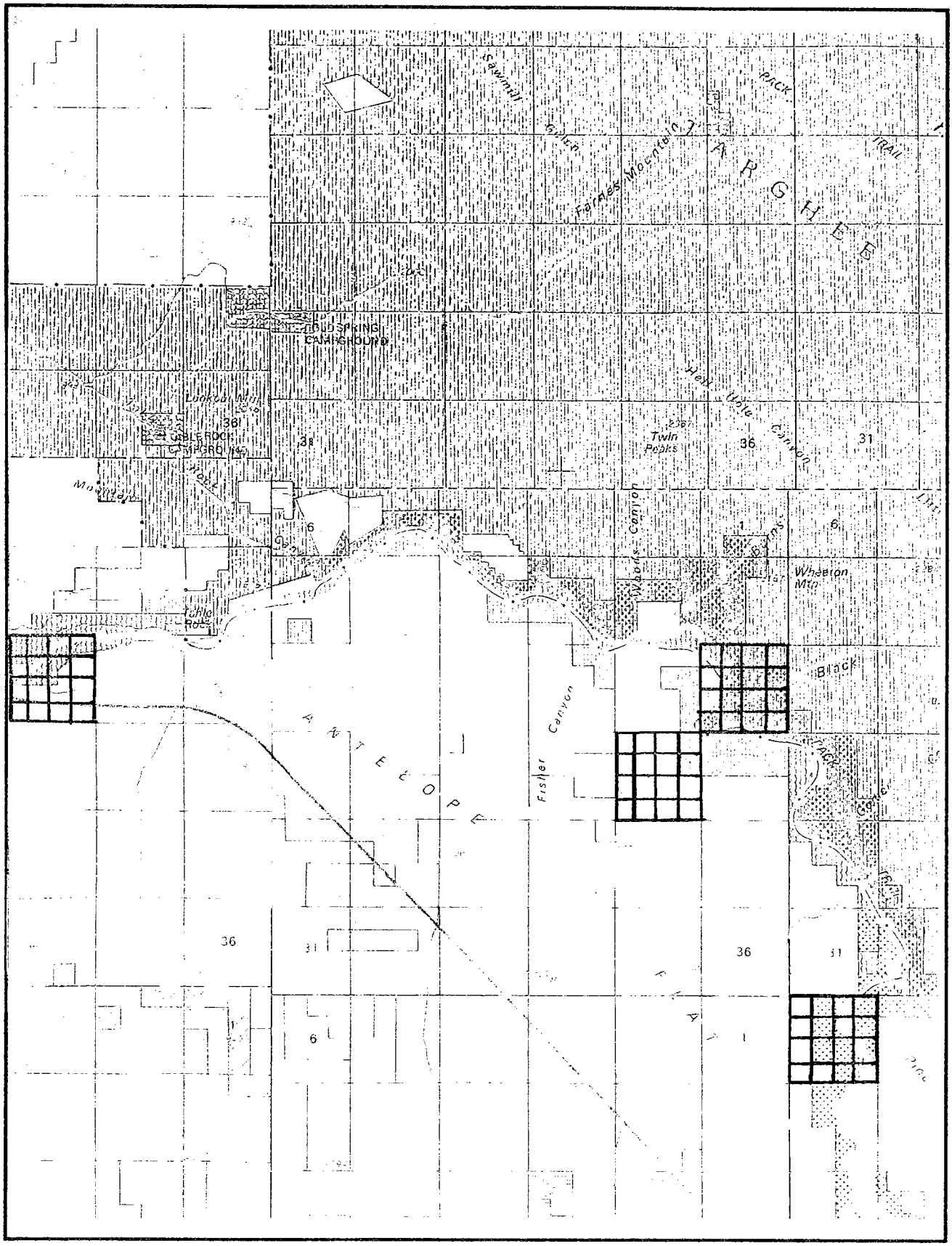

Figure 5b. Map of square mile sections sampled in South Fork Canyon area for raptor occurrence and vegetative cover types in 1994 (Scale 1:24,000).

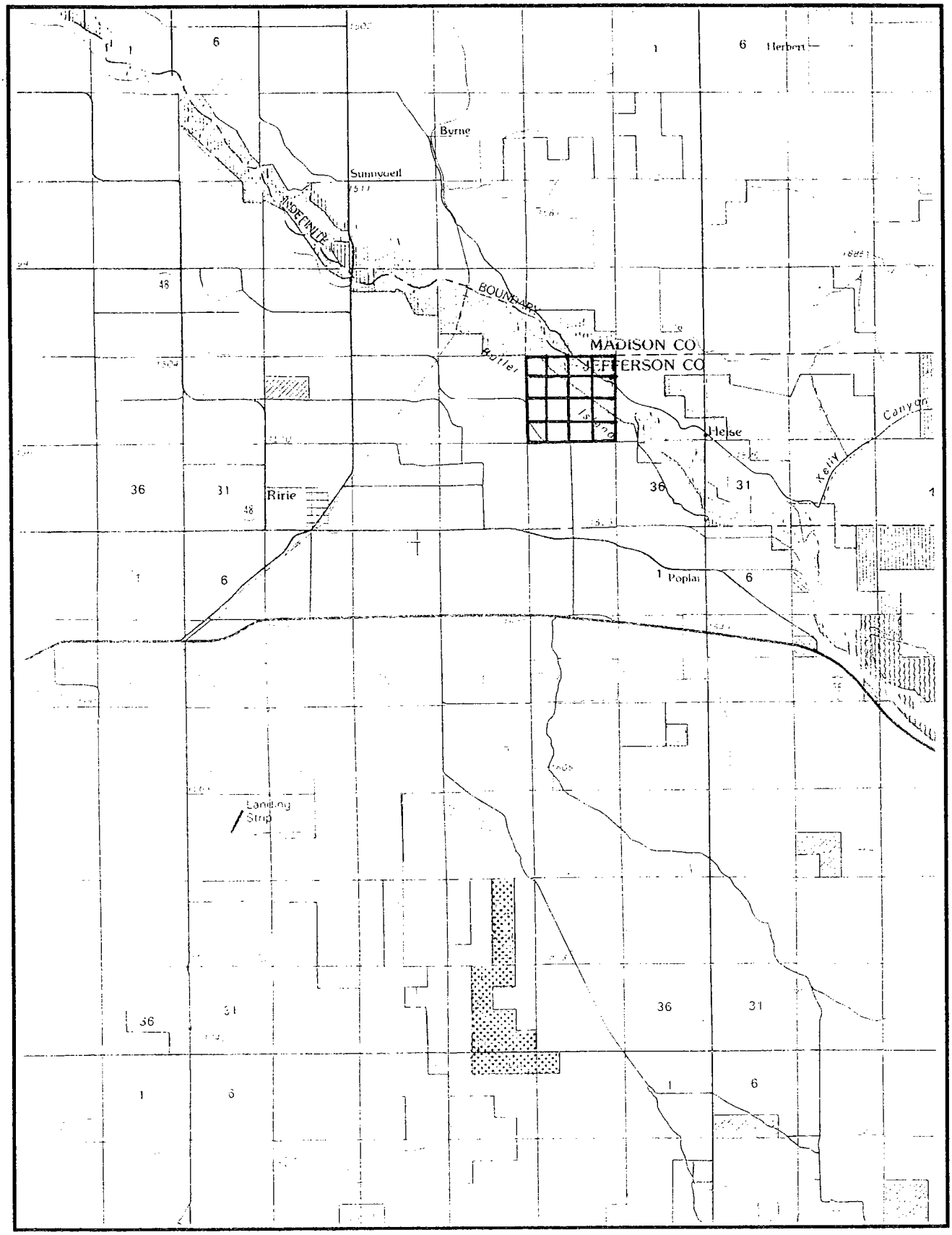

Figure 5c. Map of square mile sections sampled in Heise to Sunnydell portion of the study area for raptor occurrence and vegetative cover types in 1994 (Scale 1:24,000).

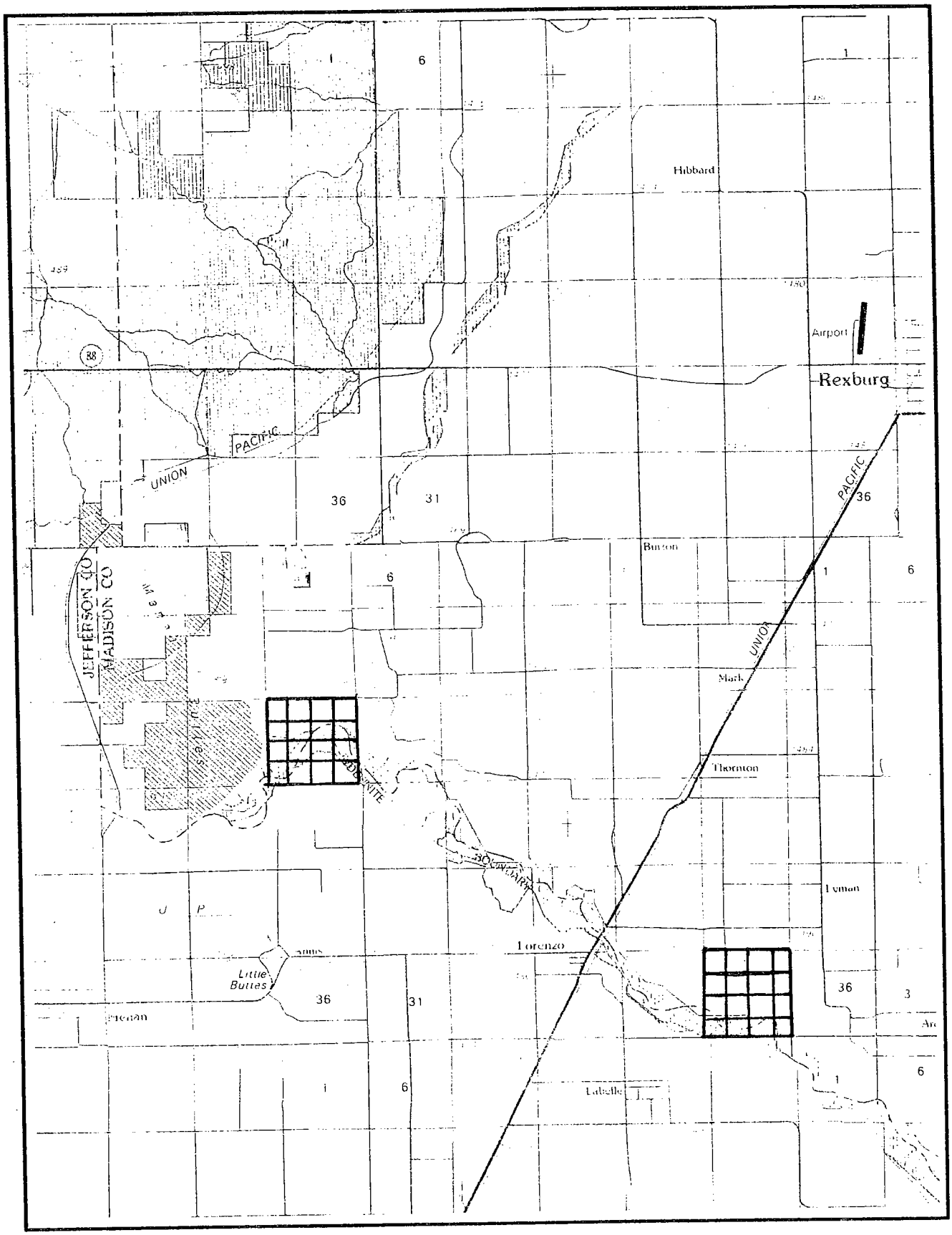

Figure 5d. Map of square mile sections sampled in the Sunnydell to Confluence portion of the study area for raptor occurrence and vegetative cover types in 1994 (Scale 1:24,000).

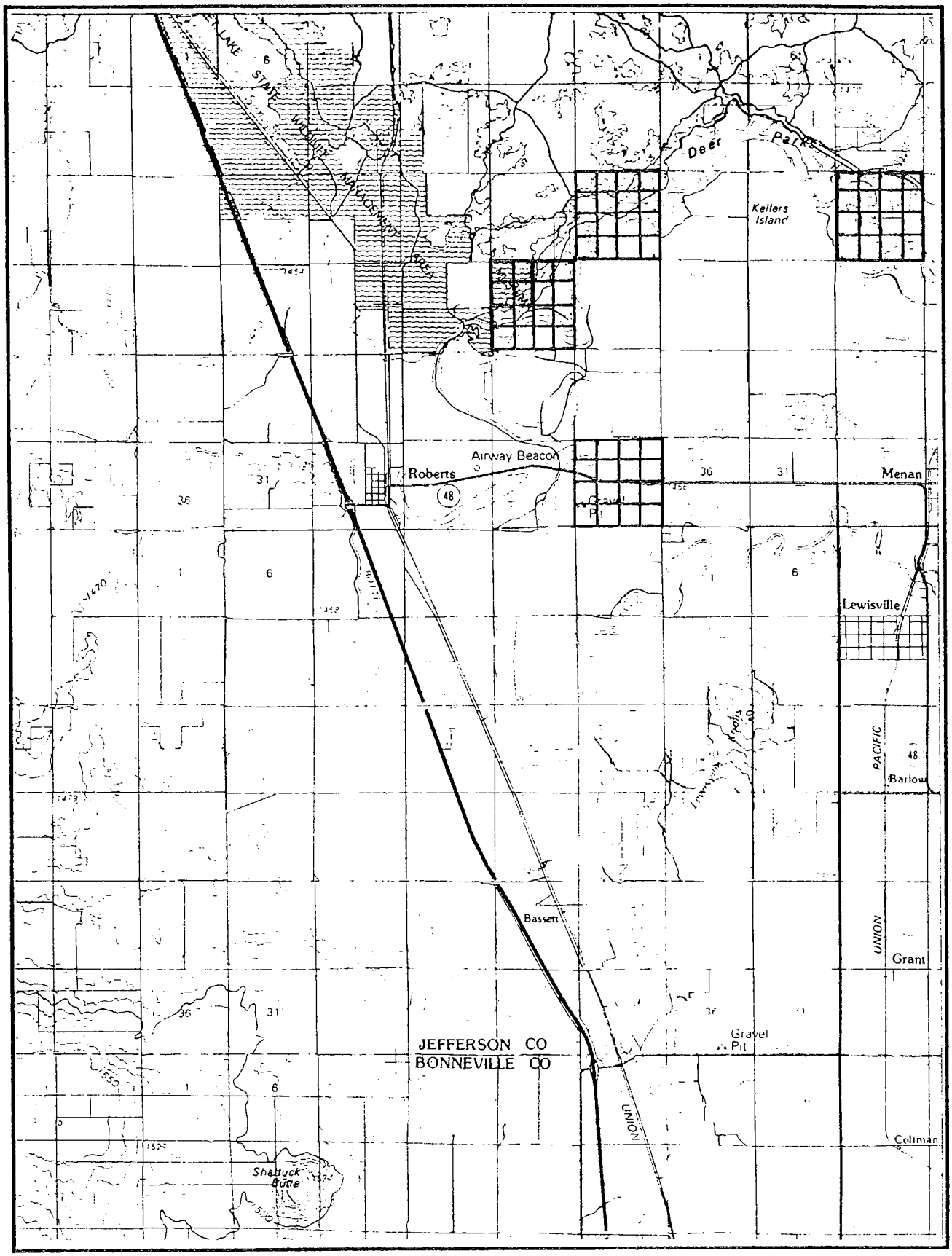

Figure 5e. Map of square mile sections sampled in the Confluence to Roberts portion of the study area for raptor occurrence and vegetative cover types in 1994 (Scale 1:24,000).

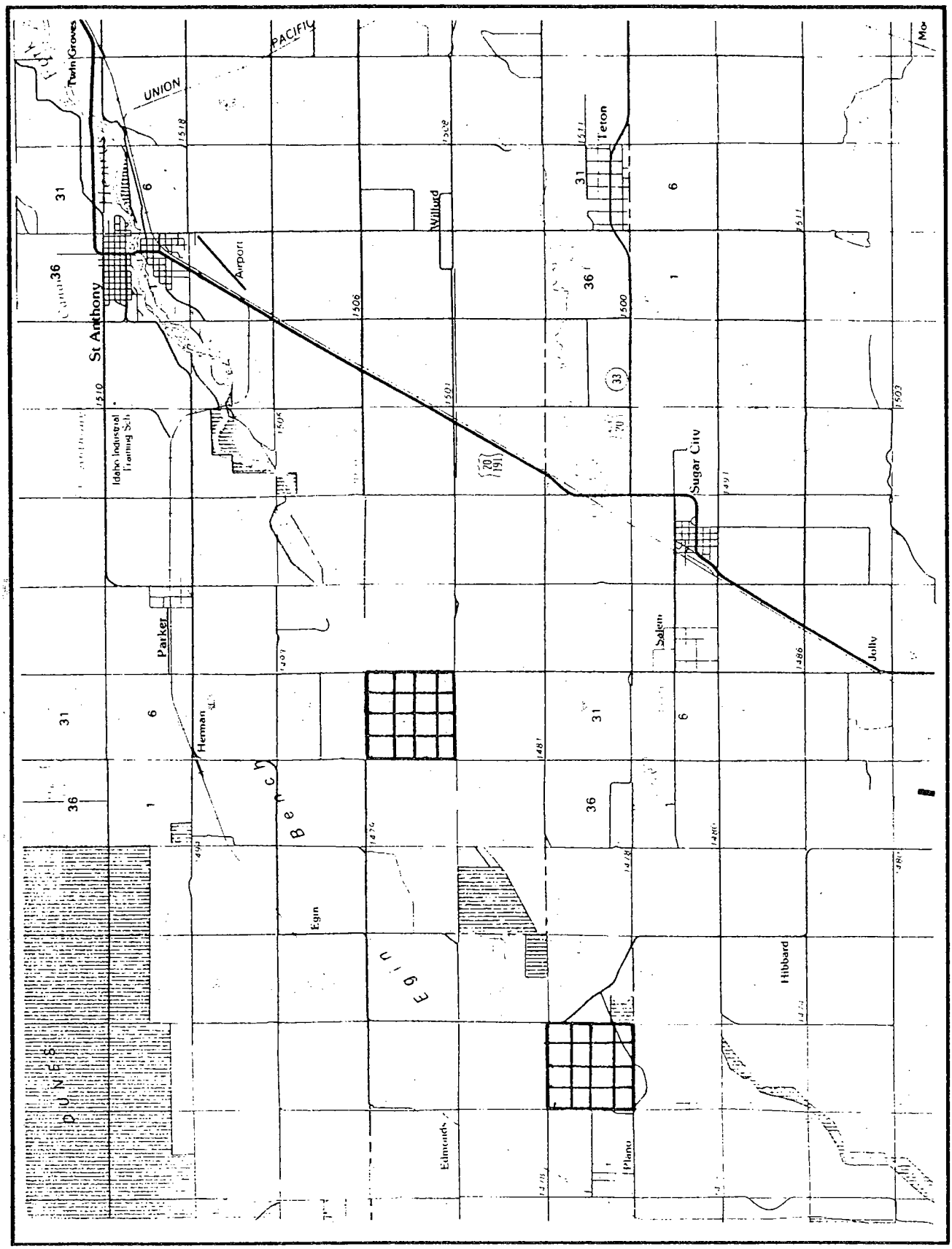

Figure 5f. Maps of square mile sections sampled in Henry's Fork portion of study area for raptor occurrence and vegetative cover types in 1994 (Scale 1:24,000).

Appendix Table 2. Summary of inventory information for diurnal raptor species suspected within Snake River study area.

Species	Occurrence[1]	General Habitats	Appropriate Survey Methods
Bald Eagle	Known, this study	Stick nests. Cottonwood riparian and Douglas fir.	Aerial and ground surveys.
Golden Eagle	Known, this study	Stick nests. Cliff ledges.	Aerial and ground surveys. Fledgling food-begging calls.
Osprey	Known, this study	Large stick nests up to 3 mi. from river.	Aerial, ground surveys.
Northern Goshawk	Known, this study	Mature conifer, mixed deciduous. Stick nests.	Calls 5/1-6/30. Fledgling food-begging calls, 7/1-8/15.
Cooper's Hawk	Known, this study	Riparian woodlands, mixed conifers. Stick nests.	Same protocol as for goshawks
Sharp-shinned Hawk	Known this study	Dense even-aged conifer stands of smaller diameter. Stick nests.	Same protocol as for goshawks
Red-tailed Hawk	Known, this study	Open tree stands, Stick nests.	Broadcast calls 3/20-5/15.Fledgling food-begging calls, 7/1-8/15. Ground and aerial surveysbefore leaf-out.
Swainson's Hawk	Known, this study	Pastures, shrublands and open meadows. Stick nest	Ground surveys 5/1-8/15.
Feruginous Hawk	Potential	Sagebrush grasslands, Open country, ground nests	Ground surveys, March courtship Mid-April, conspicuous young on nests.
Northern Harrier	Known. this study	Grasslands and riparian shrub. Ground nests	Systematic ground surveys for May courtship, extended observation to track prey delivery to nests.
Peregrine Falcon	Known this study	Big walls, cliffs near riparian	Ground survey March courtship, July fledge.
Prairie Falcon	Known this study	Rock cliffs, near river to semi-arid areas	Ground survey March courtship, July fledge, BLM protocol
Merlin	Potential	Open forest near grasslands	Ground surveys April courtship, young call in July
American Kestrel	Known this study	Secondary cavity in deciduous forest	Systematic ground surveys (E. Bull protocol)
Turkey Vulture	Known this study	Cliffs, caves, dense shrubs. Grasslands and conifer edge.	Systematic ground surveys

[1] Terms used here for occurrence include: known, this study = nest sites and/or territorial adults seen or heard; known, reports = listed as a species found in this area; suspected, appropriate habitat for these species found in the area; potential, may be found here but marginally.

Appendix Table 3. Summary of inventory information for owl species suspected within Snake River study area.

Species	Occurrence[1]	General Habitats	Appropriate Survey Methods
Saw-Whet Owl	Known, this study	Cavities, mixed conifers, cottonwoods.	Territorial calls 2/15-4/30. Fledgling food-begging calls.
Northern Pygmy Owl	Known, this study	Cavity nest. Spruce/fir and Douglas fir.	Calls 4/1-5/30 & 9/1-11/1.
Western Screech Owl	Known, this study	Cavity nest. Mature riparian, deciduous or Douglas fir to aspen.	Territorial calls 2/1-4/30. Fledgling food-begging calls.
Flammul-ated Owl	Known, this study	Cavity nest. Mature conifer, aspen.	Territorial calls 5/1-6/30. Fledgling food-begging calls.
Short-eared Owl	Suspected	Ground nests. Grass-lands and marshes at forest edge.	Territorial calls 3/1-5/1. Ground surveys. Fledgling calls, diurnal flights.
Long-eared Owl	Known, this study	Stick nest. Mixed fir and cottonwoods.	Territorial calls 3/1-4/15
Great Horned Owl	Known this study	Stick nest. Across all habitats.	Territorial calls 1/1-5/1. Ground surveys. Fledgling calls.
Great Gray Owl	Potentiall	Broken top tree or stick nest. Lodgepole and Douglas fir, spruce. Open canopy forest.	Territorial calls 2/1-4/1. Fledgling food-begging calls.
Barred Owl	Potential	Cavity or stick nest. Mixed fir. Deciduous forests in east.	Territorial calls 3/1-4/1.
Boreal Owl	Potential	Cavity nest. Mature spruce/fir. Higher elevation (marginal here).	Territorial calls 2/15-4/30. Fledgling food-begging calls.
Burrowing Owl	Potential	Burrow, Flat pasture land	Ground surveys. Territorial calls 4/1-6/15.

[1] Terms used here for occurrence include: known, this study = nest sites and/or territorial adults seen or heard; known, reports = listed as a species found in this area; suspected, appropriate habitat for these species found in the area; potential, may be found here but marginally.

Appendix Table 4. Raptor breeding area report form.

Nest/Territory/Occurrence Number Site Number Year Map Name

Area Description UTM-N or Latitude UTM-E or Longitude

Raptor Species Breeding Area Status

Nest surveys:

Date	Time	Method	No. Adults	No. Subadults	N. Eggs	No. Nestlings	No. Fledglings

Observer

Season Summary and Remarks

Nest Tree or Cliff:
Species Character Type Height Diameter Canopy Diameter

Nest Characteristics:
Height Diameter Condition

Habitat Features:
Dominant Type Basal Area Canopy Area

Aspect Slope Elevation

Nearest Human Activity/Distance:
Roads Structures Activity Activity Type Visibility

Banding and Band Recovery:
Age Sex Avise No. Color Code/Leg

Prey Remains:
Dates Items collected

Appendix Table 5. Raptor presence survey results on Snake River Study area, 1994						
(each record is of an individual raptor species detected within the quadrat.)						
Area or Quadrangle	STR	Quadrant	Raptors detected	Habitat Code	Most prominant Habitat	Secondary or Modification
Palisades	7,1S,44E	9	Bu.vi.	421	421 Douglas-fir forest	
Palisades	7,1S,44E	13	Bu.vi.	421	421 Douglas-fir forest	
Falls C.G.	11,1N,43E	2	Bu.vi.	623	623Cottonwood riparian	
Falls C.G.	11,1N,43E	2	Pa.ha.	623	623Cottonwood riparian	
Falls C.G.	11,1N,43E	2	Ha. le.	623	623Cottonwood riparian	
Falls C.G.	11,1N,43E	3	Ha. le.	623	623Cottonwood riparian	511 River, u. p.
Falls C.G.	11,1N,43E	3	Fa.sp.	623	623Cottonwood riparian	511 River, u. p.
Falls C.G.	11,1N,43E	4	Ha. le.	623	623Cottonwood riparian	511 River, u. p.
Falls C.G.	11,1N,43E	5	Ha. le.	623	623Cottonwood riparian	421 Douglas-fir
Falls C.G.	11,1N,43E	6	Ha. le.	623	623Cottonwood riparian	421 Douglas-fir
Falls C.G.	11,1N,43E	6	Ac.co.	623	623Cottonwood riparian	421 Douglas-fir
Falls C.G.	11,1N,43E	7	Bu.ja.	623	623Cottonwood riparian	421 Douglas-fir
Falls C.G.	11,1N,43E	8	Ae.ac.	421	421 Douglas-fir forest	623Cottonwood
Falls C.G.	11,1N,43E	8	Bu.ja.	421	421 Douglas-fir forest	
Falls C.G.	11,1N,43E	8	Ac.co.	421	421 Douglas-fir forest	
Falls C.G.	11,1N,43E	10	Bu.ja.	421	421 Douglas-fir forest	412 Aspen o.
Conant Valley	30,2N,43E	3	Ha. le.	623	623Cottonwood riparian	212 Pasture
Conant Valley	30,2N,43E	4	Ha. le.	212	212 Pasture	511 River, u. p.
Conant Valley	30,2N,43E	5	Ha. le.	212	212 Pasture	
Conant Valley	30,2N,43E	6	Ha. le.	212	212 Pasture	
Conant Valley	30,2N,43E	11	Ha. le.	623	623Cottonwood riparian	212 Pasture
Conant Valley	30,2N,43E	12	Ha. le.	212	212 Pasture	511 River, u. p.
Conant Valley	30,2N,43E	13	Ha. le.	623	623Cottonwood riparian	
Conant Valley	30,2N,43E	13	Bu. ja.	623	623Cottonwood riparian	
Conant Valley	30,2N,43E	14	Bu. ja.	623	623Cottonwood riparian	141 Roadway
Pine Creek	21,2N,43E	1	Aq. ch.	321	321 Sagebrush	741 Cliff
Pine Creek	21,2N,43E	1	Fa. me.	321	321 Sagebrush	741 Cliff
Pine Creek	21,2N,43E	2	Aq. ch.	321	321 Sagebrush	741 Cliff
Pine Creek	21,2N,43E	4	Bu.ja.	421	421 Douglas fir	741 Cliff
Pine Creek	21,2N,43E	4	Fa.sp.	421	421 Douglas fir	741 Cliff
Pine Creek	21,2N,43E	7	Bu.ja.	421	421 Douglas fir	211 Plowed c.
Wh. Mtn/Dry Car	6,2N,43E	2	Ca.au.	211	211 Plowed cropland	
Wh. Mtn/Dry Car	6,2N,43E	3	Bu.ja	321	321 Sagebrush	511 Upper Pere
Wh. Mtn/Dry Car	6,2N,43E	7	Bu.ja	321	321 Sagebrush	
Wh. Mtn/Dry Car	6,2N,43E	7	Fa.sp.	321	321 Sagebrush	
Wh. Mtn/Dry Car	6,2N,43E	8	Fa.sp.	211	211 Plowed cropland	412 Aspen
Wh. Mtn/Dry Car	6,2N,43E	9	Bu.ja.	211	211 Plowed cropland	412 Aspen
Wh. Mtn/Dry Car	6,2N,43E	10	Ae.ac.	211	211 Plowed cropland	412 Aspen
Wh. Mtn/Dry Car	6,2N,43E	14	Ae.ac.	421	421 Dougls-fir	
Wh. Mtn/Lufkin	23,3N,42E	4	Fa.sp.	623	623 Cottonwood	
Wh. Mtn/Lufkin	23,3N,42E	5	Bu.sw.	211	211 Plowed cropland	623 Cottonwood

Wh. Mtn/Black C	13,3N,42E	11	As.ot.	421	421 Douglas fir	
Wh. Mtn/Black C	13,3N,42E	11	Ac.ge.	421	421 Douglas fir	
Wh. Mtn/Black C	13,3N,42E	12	Bu.ja.	421	421 Douglas fir	
Wh. Mtn/Black C	13,3N,42E	12	Fa.sp.	421	421 Douglas fir	
Wh. Mtn/Black C	13,3N,42E	13	Fa.sp.	322	322 Mtn. Mahogany	
Wh. Mtn/Black C	13,3N,42E	14	Ha.le.	321	321 Sagebrush	
Wh. Mtn/Black C	13,3N,42E	14	Bu.ja.	321	321 Sagebrush	
Wh. Mtn/Black C	13,3N,42E	14	Fa.sp.	321	321 Sagebrush	
Wh. Mtn/Black C	13,3N,42E	15	Bu.ja.	321	321 Sagebrush	
Clark Hill	15,3N,41E	1	Ca.au.	321	321 Sagebrush	741 Cliffs
Clark Hill	15,3N,41E	1	Bu.ja.	321	321 Sagebrush	741 Cliffs
Clark Hill	15,3N,41E	1	Bu.ja.	321	321 Sagebrush	741 Cliffs
Clark Hill	15,3N,41E	2	Bu.ja.	321	321 Sagebrush	741 Cliffs
Clark Hill	15,3N,41E	2	Aq. ch.	321	321 Sagebrush	741 Cliffs
Clark Hill	15,3N,41E	9	Ha. le.	741	741 Cliffs	421 Douglas fir
Cress	26,4N,40E	1	Fa.sp.	623	623 Cottonwood	211 Plowed crop
Cress	26,4N,40E	1	Bu.ja.	623	623 Cottonwood	211 Plowed crop
Cress	26,4N,40E	6	Fa.sp.	623	623 Cottonwood	511 River
Texas Slough	35,T5N,R39E	14	Ca.au.	623	623 Cottonwood	511 River
Texas Slough	35,T5N,R39E	14	Bu.ja.	623	623 Cottonwood	511 River
Texas Slough	35,T5N,R39E	15	Pa. ha.	623	623 Cottonwood	511 River
Confluence	17,T5N,R38E	3	Ha. le.	623	623 Cottonwood	212 Pasture
Confluence	17,T5N,R38E	11	Ha. le.	623	623 Cottonwood	511 River
Deer Parks	14,5N,37E	1	Ci.cy.	321	321 Sagebrush	
Deer Parks	14,5N,37E	2	Ci.cy.	321	321 Sagebrush	
Deer Parks	14,5N,37E	4	Bu.vi.	623	623 Cottonwood	
Deer Parks	14,5N,37E	7	Fa.sp.	623	623 Cottonwood	621 Willow
Deer Parks	14,5N,37E	7	Bu.ja	623	623 Cottonwood	621 Willow
Deer Parks	14,5N,37E	8	Bu.sw.	623	623 Cottonwood	621 Willow
Deer Parks	14,5N,37E	8	Fa.sp.	623	623 Cottonwood	621 Willow
Lewisville	22,5N,37E	4	Bu.ja.	623	623 Cottonwood	621 Willow
Lewisville	22,5N,37E	4	Bu.sw.	623	623 Cottonwood	621 Willow
Lewisville	22,5N,37E	6	Fa.sp.	623	623 Cottonwood	621 Willow
Lewisville	22,5N,37E	10	Ha.le.	623	623 Cottonwood	621 Willow
Lewisville	22,5N,37E	10	Fa.sp.	623	623 Cottonwood	621 Willow
Lewisville	22,5N,37E	11	Ha.le.	623	623 Cottonwood	621 Willow

Appendix Table 6. Band numbers, locations and dates for nestling bald eagles banded within the Idaho portion of the Greater Yellowstone Ecosystem, 1994.

USFWS BAND NUMBER	COLOR BAND	TERRITORY NAME	TERRITORY NUMBER	DATE BANDED	APPROX. AGE
629-37628	W/G, 0/A	Palisades Cr.	18-IS-04	05/23/94	6.5 weeks
629-37629	W/G, 0/B	Palisades Cr.	18-IS-04	05/23/94	6.5 weeks
629-37630	W/G, 0/C	Conant Valley	18-IS-06	05/23/94	6.5 weeks
629-37631	W/G, 0/D	Conant Valley	18-IS-06	05/23/94	7.0 weeks
629-37632	W/G, 0/E	Market Lake	18-IS-22	05/26/94	5.5 weeks
629-37633	W/G, 0/G	Wolverine	18-IS-10	05/28/94	7.0 weeks
629-37634	W/G, 0/H	Gormer Can.	18-IS-09	05/28/94	5.5 weeks
629-37635	W/G, 0/K	Gormer Can.	18-IS-09	05/28/94	5.5 weeks
629-37636	G/W, 2/R	Hale Creek	18-IC-10	06/07/94	7.0 weeks
629-37637	W/G, 0/M	Hoffman	18-IS-01	06/12/94	7.0 weeks
629-37638	W/G, 0/N	Hoffman	18-IS-01	06/12/94	6.5 weeks
629-37639	W/G, 0/P	King Creek	18-IS-18	06/12/94	7.5 weeks
629-37640	W/G, 0/R	King Creek	18-IS-18	06/12/94	7.5 weeks
629-37641	W/G, 0/S	Williams Cr.	18-IS-02	06/17/94	7.5 weeks
629-37642	G/W, 2/P	Flat Rock	18-IC-14	06/14/94	7.5 weeks
629-37643	G/W, 2/S	Lucky Dog	18-IC-07	06/14/94	6.0 weeks
629-37644	G/W, 2/T	Lucky Dog	18-IC-07	06/14/94	6.5 weeks
629-37645	G/W, 2/U	Riverside	18-IC-15	06/15/94	7.5 weeks
629-37646	G/W, 2/V	Riverside	18-IC-15	06/15/94	7.5 weeks
629-37647	G/W, 2/W	Last Chance	18-IC-12	06/16/94	8.0 weeks
629-37648	G/W, 2/X	Last Chance	18-IC-12	06/16/94	8.0 weeks
629-37649	G/W, 2/Y	Box Canyon	18-IC-03	06/16/94	7.0 weeks
629-37650	W/G, 0/T	Van Point	18-IS-03	06/17/94	6.0 weeks
629-40551	W/G, 0/U	Van Point	18-IS-03	06/17/94	6.5 weeks
629-40558	G/W, 3/G	I.P. Bills	18-IC-13	06/21/94	7.5 weeks
629-40552	G/W, 2/Z	Moonshine	18-IC-11	06/21/94	6.5 weeks
629-40555	G/W, 3/D	Targhee Cr.	18-IC-09	06/25/94	9.0 weeks
629-40556	G/W, 3/C	Targhee Cr.	18-IC-09	06/25/94	8.5 weeks