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RAPTOR NESTING AND PRODUCTION IN
SOUTHERN WYOMING DURING 1978

Brian A. Millsap

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INTRODUCTION

This report summarizes information obtained during a raptor nest survey and production study I conducted in southern Wyoming during 1978, for the Bureau of Land Management. Primarily, the study was designed to provide baseline production information on status uncertain and sensitive species nesting on BLM lands within the area. Raptor species falling into this category included the ferruginous hawk (Buteo regalis), the golden eagle (Aquila chrysaetos), and the prairie falcon (Falco mexicanus).

Other raptor species found to nest on the study area included the red-tailed hawk (Buteo jamaecensis), the Swainsons Hawk (Buteo swainsoni), the marsh harrier (Circus cyaneus), the American Kestrel (Falco sparverius), the Richardson's Merlin (Falco columbaris richardsonii), the screech owl (Otus asio), the burrowing owl (Athene cunicularia), and the great horned owl (Bubo virginianus). Summaries of production and nesting characteristics have been prepared for those species for which more than one nest was located.

STUDY AREA

Location and Topography

This study was conducted on a 2,645 square mile section of the southern one-third of the State of Wyoming. It was included within the Rawlins and Rock Springs Bureau of Land Management Districts, and contained portions of Albany County, Carbon County, Fremont County, Lincoln County, Sublette County, and Sweetwater County, Wyoming (Fig. 2). Approximately 40 percent (1,058 square miles) of the study area was actually surveyed for raptor nests.

The topography was characterized by broad, relatively flat valleys, separated by rolling hills and occasional mountain ranges. Major physiographic features from east to west included the Laramie River and associated intermontane plateau, the Medicine Bow Mountains, the North Platte River and associated plateau, the Shirley Basin, Seminoe, Ferris, and Green Mountain Ranges, the Great Divide Basin and associated Red Desert Flat, and the Green River and associated plateau. An important element of the hills and some river drainages was numerous limestone and sandstone rock outcroppings (if rock outcroppings extended horizontally for distances greater than 100 yards they were termed rimrock). Elevations ranged from 5,800 feet to 11,100 feet on the area.

Climate

Mild summers and cold winters are characteristic of southern Wyoming. Mean annual temperature is 41°F, with common yearly ranges between 95°F and -10°F. Temperatures are generally cooler in higher elevations.

Precipitation averages 14 inches per year, however local variations exist. Most precipitation occurs during winter as snow, although summer convective storms contribute considerably to the total.

High winds are a common feature on the study area, and occur during all seasons. From 30 to 40 mile per hour winds are frequently encountered during winter months.

Vegetation

Four distinct plant community types occur in portions of the study area that were surveyed. Although alpine and sub-alpine communities were present, these were not included within the surveyed area. Extensive conifer forests were also excluded. Plant communities in surveyed areas were: (1) short grass prairie, (2) desert shrub, (3) riparian and (4) dwarf conifer.

The short grass prairie community was primarily encountered in the intermontane plateau associated with the Laramie River and in the Shirley Basin region. Vegetation consisted mainly of grasses less than 10 inches in height, primarily fescues (Festuca spp. and Vulpia spp.), brome grasses (Bromus spp.) and gramma grasses (Bouteloua spp.).

The desert shrub community consisted of two vegetation types. The first, and by far the most widespread, was the sagebrush-grassland type. Characteristic species of this vegetation type include the big sagebrush (Artemisia tridentata), other sages (Artemisia spp.), and mixed grasses (primarily cheatgrass (Bromus tectorum), gramma grass, and needle and thread (Stipa comata)). The second vegetation type, primarily found in lower elevations along valley floors, consisted of the above species interspersed with shadscale (Atriplex spp.) and greasewood (Sarcobatus spp.). Desert shrub vegetation occurred on most of the study area west of the Medicine Bow Mountains.

Riparian communities were subdivided into two distinct vegetation types. The desert riparian type, characteristic of ephemeral stream margins in lower elevations, primarily consisted of vegetation less than 30 inches in height. Sedges (Carex spp. and Eleocharis spp.) were the most common plants of this vegetation type. Other riparian vegetation types supported a wider variety of floral life. Species of the riparian vegetation type included cottonwood (Populus spp.), willow (Salix spp.), mixed grasses, sedges, and rushes (including cattail (Typha latifolia)), and a variety of other herbaceous plant species.

The dwarf conifer community occurred primarily upon well drained slopes on the southern half of the study area. Characteristic plant species included the juniper (Juniperus spp.), mixed grasses, and mountain mahogany (Cercocarpus montanus).

Human Utilization

Two moderately large communities and several smaller settlements existed on the study area. Scattered ranches and farms are present throughout the area with farming occurring primarily on the flood plains of major river drainages where irrigation water is available.

The majority of land on the study area is publicly owned and administered by the Bureau of Land Management. Public lands are leased for livestock grazing and/or mineral and oil development over much of the area.

Most areas were accessible from paved highways or graded dirt roads, and recreational activities were major uses of these areas. Rock hunting, off-road driving, hunting, and fishing were predominant activities.

METHODS

The study was conducted 22 May, 1978 - 15 July, 1978. Specific areas to be surveyed were selected on the basis of: (1) amount of raptor nesting information already available from an area, (2) probability of nesting by species of interest, (3) land ownership, and (4) availability of access (presence of roads, waterways, etc.).

Areas selected were examined by car, on foot, and in some cases, from a boat. Basic raptor nest survey techniques utilized were those summarized by Call (1978). Raptor nests located were plotted upon BLM surface ownership quadrangle maps. Each nest was assigned a species code (GE = golden eagle, RT = red-tailed hawk, F = ferruginous hawk, S = Swainson's hawk, P = prairie falcon, K = American kestrel, M = Richardson's merlin, H = marsh harrier, SO = screech owl, BO = burrowing owl, and GH0 = great horned owl), a unique number by species (usually in the sequence in which nests were located), and the suffix 78 to identify the year for which the information was obtained. For example RT 11-78 is the identification code for red-tailed hawk nest number 11, located during 1978.

The majority of nests located were examined to determine contents, however only when young were visible. Care was taken not to disturb raptor nests prior to egg hatching, as clutch data was not considered important in achieving the goals of the study. Nest desertion may sometimes result from pre-hatching disturbances. Information from each nest was recorded on a Raptor Inventory Data Sheet, and additional information recorded in my field notebooks. Photographic records were kept on most nests examined.

RESULTS

Value of Information Obtained

Raptor populations are a dynamic ecosystem component, experiencing yearly and seasonal shifts in density and composition with respect to variations in climate, prey availability, and general environmental condition. Nesting raptor populations reflect these changing ecological conditions; however factors responsible for changes can only be determined after data from several years has been collected and analyzed and normal trends have been established.

The information presented here is designed to provide baseline data describing raptor populations and production of young on the study area during 1978. I realize the information reflects varying amounts of effort expended in locating nests of different raptor species. Emphasis was placed upon locating ferruginous hawk and golden eagle nests, however data from significant numbers of nests of other species has also been included. These data should prove valuable in comparing future production with that occurring during 1978.

Characteristics of Raptor Nesting on the Study Area

Raptor nests located on the study area were distributed unevenly with respect to the uneven distribution of structures suitable for nesting. Nesting structures included rock outcroppings, rimrock, trees, shrubs greater than five feet in height, an abandoned building, a utility pole, a railroad trestle, and soil erosion banks. In some areas where such structures existed, raptor nesting densities probably approached saturation, while areas devoid of suitable nesting structures supported few nesting pairs. Ferruginous hawks exhibited the ability to nest on the ground in areas where elevated structures were absent. Marsh harriers always nested upon the ground.

Highest raptor nesting densities were observed in areas where extensive limestone and sandstone rimrock exposures existed, and in cottonwood gallery forests along stream and river courses. Nesting densities in these areas approached 4 pairs per square mile in some cases. Species composition varied between the two high density situations, however. Prairie falcons were found nesting only in rimrock and rock outcroppings, and were absent from gallery forests unless rocky sites were available as well. The Richardson's Merlin was the only species found only in the gallery forest. Swainson's Hawks were absent from most rimrock areas, and no nests of this species were located in any structure other than a tree. Red-tailed hawks, golden eagles, American Kestrels, and great horned owls were observed to utilize both gallery forests and rimrock for nesting.

Overall, 51.2 percent of the nests were placed in trees or shrubs, 31.4 percent in or on rimrock and rock outcrops, 12.1 percent on the ground, and 5.3 percent upon other structures (Table 3).

The approximate chronology of nesting by the various species is summarized in Table 2. Indications were that nesting by most species occurred later during 1978 than in previous years. Causes of the delay remain speculative, although information collected at ferruginous hawk nests suggests that unusually cold and wet conditions during late April and early May might have been partially responsible. The comparatively late fledging dates of some species may reflect the occurrence of renesting in response to failure of a first attempt. This is especially applicable to the marsh harrier.

Portions of raptor populations may not breed every year, because of unsuitable prey base, sexual immaturity, or other reasons. This was found to be the case in my study area where many immature birds were observed. The most significant of these observations was of 9 first and second year (3 and 2 years from what is recognized as breeding age) golden eagles along a sagebrush flat, 20 miles south of Rock Springs, Wyoming. These eagles were situated well away from any known active nest of their species, in an area of high white-tailed prairie dog (Cynomys gunnisoni) density. Additionally, 39 immature (but at least 1 year old) red-tailed hawks, 4 immature Cooper's Hawks (Accipiter cooperi), and 1 immature peregrine falcon (Falco peregrinus) were observed on the study area.

The degree of fidelity existing between raptors and their nest sites varies tremendously (Smith and Murphy 1973). Reoccupation of the same nest year after year is uncommon among all but cavity nesting species, primarily the prairie falcon. New nests are commonly constructed and utilized each year in the vicinity of nests occupied during previous years. Among ferruginous hawks, red-tailed hawks, and some golden eagles, construction and/or utilization of a different nest each year occurs quite often but probably depends partly on the availability of new suitable nesting sites. For example, where trees are very scarce, red-tailed hawks and ferruginous hawks tend to use the same nesting trees for several years. Very few of the ground nests known to have been utilized by ferruginous hawks during 1977 were again occupied in 1978 (Call, verbal communication).

Production and Mortality

Production, for the purposes of this study, can be defined as the number of juveniles hatched in a particular nest. The majority of those young observed upon raptor nests probably fledged, however time limitations prevented returning to all nests to ascertain exact numbers fledged. I measured production in two ways: (1) number of young per active nest, and (2) number of young per successful nest. Both of these

calculations were designed to reveal production as a whole for each species nesting on the study area. An active nest was defined as a nest in which eggs had been deposited, and calculations included those nests abandoned or destroyed prior to or subsequent to hatching. A successful nest was defined as a nest from which at least one young hatched, and probably fledged. These calculations included only those nests known to contain at least one juvenile at last examination.

Production is one measure of the fitness of a raptor population, as has been discussed previously. Another important factor is mortality. If production is high, and mortality equally high, the number of juveniles remaining in the population at the end of one year may be insignificant. As is often the case, a breeding season characterized by high raptor production is often followed by an autumn and winter of high mortality (Mueller and Berger 1967). There are indications that an interrelationship exists between these two natural phenomena, as competition for resources is especially keen following a year when fledging success is high. Although production is relatively easy to determine, mortality rates are exceedingly difficult, if not impossible to accurately assess. Most available information is obtained from band returns. This fact biases interpretations, as mortalities of banded birds resulting from human interaction (automobile caused fatalities, illegal shooting, etc.) are reported more frequently than are deaths resulting from natural causes. Recognizing these problems, I have calculated the number of juveniles (of three species) produced this year on the study area which can be expected to survive to breeding age (Table 4). Calculations are based upon information published by Enderson (1969), Snow (1974), and McGahan (1968).

Nest Placement and Production by Species

Ferruginous Hawk

Recent concern over apparent declines in production by ferruginous hawks in some western states has resulted in the initiation of numerous research programs designed to reveal the extent and causes of reproductive failures. To my knowledge no recent information describing productivity and breeding status is available from the State of Wyoming. For this reason I was especially interested in obtaining production information from as many ferruginous hawk nests within the study area as possible.

I visited 54 active ferruginous hawk nests in southern Wyoming during the 1978 breeding season. Additionally, 74 inactive nests were examined. Ground nests comprised 29.6 percent of all active nests located, 14.8 percent were in trees or shrubs (3 in junipers, 4 in sagebrush, and one in a dead snag), 27.8 percent on low rock outcroppings, 18.5 percent along rimrock ledges, and an additional 9.8 percent were located upon other miscellaneous structures. Miscellaneous structures

included two nests on soil erosion banks and one nest each upon a uranium mine tailing, a utility pole, and an abandoned outbuilding. For a comprehensive review of ferruginous hawk nesting sites see Call (1978).

Ferruginous hawks produced a mean of 1.89 young per nesting attempt on the study area during 1978. Ferruginous hawks in Cedar Valley, Utah produced 2 young per nest in 1968 (Weston 1969) and 3.4 young per nest in 1971 (Platt, 1971). Nests of this species in Washington fledged 1.85 young per nest in 1974 and 2.50 young per nest in 1975 (Fitzner et.al. 1977). In northern Utah and southern Idaho production averaged 1.16 young per nest in 1967, 2.11 young per nest in 1968, 2.66 young per nest in 1969, and 1.43 young per nest in 1970 (Smith and Murphy 1973). A northern Colorado population produced 2.29 young per nest in 1971 and 2.67 young per nest in 1972 (Olendorff 1973). This information, placed here for comparison, indicates that productivity of ferruginous hawks in southern Wyoming during 1978 was slightly lower than that commonly encountered by researchers in other western states during previous years. The information also illustrates the degree of fluctuation in production this species can experience over several years.

Obviously, it is difficult to predict the future or trend of the ferruginous hawk population in southern Wyoming based upon information obtained during one year. I suspect that production during 1978 was slightly lower than normal.

Although 72.3 percent of all nesting attempts were successful, nests with northern aspects (270° - 90°) were successful only 55.5 percent of the time. By contrast, 87.4 percent of all nests with southern aspects (91° - 269°) were successful. Nests with northern aspects fledged a mean of 1.27 young per successful nest, while those with southern aspects fledged a mean of 2.15 young per successful nest (Fig. 2). Clutch sizes observed in abandoned nests averaged 1.7 eggs, while clutch sizes deduced from active nests (number of young plus any unhatched eggs) averaged 2.4 eggs. Smith and Murphy (1973) found 3.23 eggs per nest in Utah to be the average clutch size, and Weston (1969), also in Utah, calculated the mean clutch size in his study population to be 3.57 eggs. I suspect that most of the clutches I observed in abandoned nests ($n=9$) had not been completed, possibly having been abandoned during the laying period. Heavy snows and cold temperatures during late April and early May may have been responsible for the abandonment and lowered production by some ferruginous hawk pairs. The decline in production and high percentage of failure among attempts having northerly aspects tends to support this hypothesis, assuming cooler temperatures prevailed and snowfall was retained for longer periods on northern exposures. Ground nesting attempts were less successful than were nests placed in trees, rocky areas, or upon miscellaneous structures. Predation was suspected in 3 of 9 ground nest failures, although in 2 of these the nest contents might have been consumed after abandonment. With unseasonably cool, wet weather early

in the incubation period, ground nesting pairs may have been subjected to greater stresses than pairs nesting upon other structures. If climatic conditions during incubation were indeed responsible for a significant number of ferruginous hawk nesting failures during 1978, increased production could be expected during more favorable years.

The majority of biologists having experience with ferruginous hawks have noted that the species is relatively intolerant of human disturbances early in the nesting cycle (prior to and during incubation). In southern Wyoming I noted that the most productive nests (those nests fledging four or five young) were often situated in remote areas where all types of non-natural disturbances occurred infrequently. Several nests, however, were constructed adjacent to sources of nearly constant auditory and visual disturbance (highways, gas wells, etc.), and yet produced young. Perhaps constant, semi-remote disturbances gradually are accepted by some pairs of ferruginous hawks, while periodic and proximate disruptions result in nest abandonment if occurring prior to hatching.

It is very possible that nest abandonment occurs more frequently in areas where prey supplies are sparse or where harsh environmental conditions are present.

The majority of ferruginous hawk nests located on the study area were constructed within sagebrush-grassland vegetation types, and my observations indicate that adult ferruginous hawks procure a large percentage of their prey from these areas. The only other vegetation types observed to be utilized by ferruginous hawks were the shortgrass prairies common in eastern sections of the study area, and scattered juniper stands throughout the area. I received reports of ferruginous hawks nesting in cottonwoods and "large bushes" along the Laramie River in Wyoming, however, I was unable to visit any of these nests.

Red-tailed Hawk

No emphasis was placed upon locating red-tailed hawk nests during this study, as this species appears to be reproducing at a fairly high and constant rate throughout the study area. Nests located were primarily discovered while surveying for other raptor species, and production was determined from nests only when convenient.

I located 39 active nests on the study area during 1978. Productivity was determined from 26 nests. At some sites production was estimated visually from beneath the nest (a technique which can produce erroneous results), although the majority were examined thoroughly to insure accuracy. Only those nests from which production was accurately determined were included in the calculations.

Nests from which production was accurately determined fledged a mean of 2.41 young. No unsuccessful nests were discovered, although failures

undoubtedly occurred. Smith and Murphy (1973) found that over a four-year period, a red-tailed hawk population in the eastern Great Basin of Utah fledged a mean of 1.74 young per nest. Highest production during the four years was 2.14 young per nest during 1969. The comparatively high production in southern Wyoming during 1978 might reflect the unintentional exclusion of nests abandoned prior to or after surveying occurred. Regardless, red-tailed hawks appear to have experienced a year of high production in southern Wyoming during 1978.

Nests were generally inaccessible to terrestrial predators. Nests were placed in trees 64 percent of the time. One tree nest was in a juniper, 1 in a dead ponderosa pine, 1 in a spruce (*Picea* spp.), and 23 in cottonwoods. Nests were placed upon rimrock ledges and rock outcroppings at 36 percent of the sites.

As with ferruginous hawks, red-tailed hawks occasionally will abandon nests when disturbed prior to hatching of eggs (Smith and Murphy 1973). Before initiating research, biologists should carefully weigh the value of pre-hatching data with the possible consequences of their actions.

Nests were found in all major vegetation types present upon the study area. The species nested in the greatest concentrations throughout cottonwood gallery forests along major stream and river drainages. Individuals were observed hunting over surrounding short-grass prairie and sagebrush-grassland vegetation types.

Swainson's Hawk

Very few Swainson's Hawk nests were located on the study area during 1978. This does not indicate that the Swainson's Hawk was a rare nester on the study area, only that very little time was spent searching for the relatively inconspicuous nests of this species.

Six active Swainson's Hawk nests were located, and production was determined at 3 of these sites. One nest failure was observed, possibly due to investigator disturbance early in the nesting cycle. An average of 1.6 young were fledged from the 3 active nests where production was documented. Dunkle (1977) found that Swainson's Hawks nesting on the intermontane plateau west of Laramie, Wyoming fledged an average of 2.06 young per nest. Based upon my small sample size I will decline any comparison of production information.

All Swainson's Hawk nests were in trees. In one case an old ferruginous hawk nest in a juniper was utilized, while the remaining 5 nests were located in cottonwoods. Call (1978) stated that about 99 percent of all Swainson's Hawk nest attempts are in trees.

Although Swainson's Hawks frequently utilize lone trees as nesting sites (Dunkle 1977; Call 1978), all but one of the nests I observed were constructed in cottonwood gallery forests bordering drainage systems. I commonly observed Swainson's Hawks hunting over sagebrush-grassland vegetation types in the vicinity of riparian communities which provided suitable nesting habitat.

Marsh Harrier

Few harrier (marsh hawk) nests were located on the study area compared to the number of nests which probably existed. Harriers constructed their nests directly upon the ground, making detection difficult. As this species was not of primary interest in the study, little time was spent searching for individual nests.

Five nests were located during 1978 on the study area. One of these has failed prior to discovery. An average of 2.83 young per active nest was observed. Smith and Murphy (1973) found 3.5 young per nest in the eastern Great Basin of Utah, although they noted that the small sample size (n=2) reduced the significance of any conclusions. Despite my small sample size (4), I suspect harrier production approximated, if not exceeded, 2.83 young per nest in southern Wyoming during 1978.

Harrier nests typically were placed along sagebrush flats, although one nest was located on a gently sloping, sagebrush covered hillside. Nests, in all but one case, were tightly surrounded by sagebrush plants, and located where interspersed grasses (primarily Andropogon spp. and Secale spp.) grew to heights of about 30 inches. The nest constituting the exception was located in a dense growth of sedges. Adults were frequently observed hunting over riparian areas near the nest, and sagebrush-grassland vegetation types as much as 1.5 miles from the nest.

Prairie Falcon

Like the ferruginous hawk, the prairie falcon has received widespread attention from raptor biologists during recent years. Declines in production among scattered prairie falcon populations prompted research linking certain pesticides and pesticide by-products with thinning of falcon eggshells and increased embryo mortality (Lockie et.al. 1969; Fyfe et.al. 1969; Enderson and Berger 1970).

In southern Wyoming prairie falcon populations during 1978 appeared significantly more productive than populations in other western states, although the data I collected is relatively incomplete. Most nests from which production information was obtained were examined only after the young had hatched and were visible; therefore, some nests failing to hatch young were not recognized as abandonments. I found prairie falcon production to average 4.0 young per nest (n=15) on my study area.

Ogden (1973) found a mean fledging rate of 3.1 young from a population in Idaho. Olendorff (1973) noted mean brood size to consist of 3.42 young per nest in northern Colorado. Enderson (1969) found prairie falcon eyries in Colorado and Wyoming to fledge an average of 1.2 young per active nest. He speculated that falconers, in increasing numbers, were removing birds from and causing disturbance at many of the nest sites he studied. This factor will be discussed in further detail in a later section.

Prairie falcons apparently utilize for nesting only vertical soil or rock faces greater than 15 feet in height in southern Wyoming, although exceptions may have existed. Eggs were usually deposited in potholes and cavities naturally occurring in the cliff face, however I observed two nesting attempts in old Buteo hawk nests, and one in an old golden eagle nest. Nests were protected from above by overhanging rock or substrate material at all but three sites. The exceptions were situated on narrow ledges (approximately 20 inches in width), projecting directly outward from the cliff face.

Prairie falcons attained highest nesting densities along limestone rimrock faces overlooking expanses of flat, unbroken land (natural weathering of limestone produced numerous clefts, potholes, and cavities attractive to falcons). In similar habitat in Idaho, adult falcons have been known to range, during hunting forays, as far as 20 miles from the nest site (Snake River Birds of Prey Research Project, Bureau of Land Management, Annual Reports, 1976 and 1977). Prairie falcons probably exhibited similar hunting patterns at some nesting sites on my study area. If so, I suspect all vegetation types represented are utilized to some extent.

American Kestrel

The American Kestrel was probably the most abundant nesting raptor on the study area, although no emphasis was placed upon locating nests. Kestrel populations appear to have experienced no widespread declines; however, most raptor biologists have essentially ignored their presence upon study plots. Good baseline data is needed from populations of this species in western states.

A total of 14 active Kestrel nests were located on the study area. Production, observed at 4 sites, averaged 2.65 young per nest.

About 70 percent of Kestrel nests observed were in cavities in trees. Cavities utilized were either natural in origin or abandoned flicker (Colaptes spp.) nest sites. Kestrel nests placed in cavities in rock outcroppings and soil erosion banks constituted 29 percent of the nests examined. I suspect that, where suitable woody cavities are available, they will be used in preference to rock or soil cavities.

Richardson's Merlin

The merlin is a falcon of intermediate size, primarily found on the study area as a migrant and winter resident. I have included subspecific taxonomic status in this case only because the three races of merlin in North America exhibit readily distinguishable plumage and behavioral traits. All merlins observed on my study area were identified as F.c. richardsonii (see Temple, 1972).

No verifications of nesting attempts by merlins on the study area were made during 1978; however, 4 pairs were observed along the Green River on the western portion of the study area. Pairs observed were highly defensive, and numerous magpie nests suitable for merlin occupancy were found in the vicinity of those pairs. None of these nests were examined for eggs or young. During 1977 five pairs of merlins were located on the Green River (Call, verbal communication). Three sites where pairs were observed in 1977 again supported merlins during 1978, suggesting a tendency for some pairs to return to the same nesting sites each year. It is not known if the same birds comprised these pairs during both 1977 and 1978.

Although no specific nest sites were examined, merlins seemed to prefer open, savanna habitat, characteristic of peripheral regions of gallery cottonwood forests.

Golden Eagle

Due to their large size and relative ecological importance as predators in all ecosystems in which they are found, golden eagle populations have been monitored closely in several western states. Across southern Wyoming however, little information has been collected.

I located 48 active golden eagle nests on the study area during 1978. Production, determined at 46 of these sites, averaged 1.45 young per nest. Production increased from east to west across the study area ($\bar{x}$ = 1.20 young per nest east of Rawlins; $\bar{x}$ = 1.63 young per nest west of Rawlins). Seibert et.al. (1976) found a mean of 1.10 young per nest in Elko County, Nevada during 1972, and 1.36 young per nest during 1973. Smith and Murphy (1973) found an average of 1.0 young per nest in Cedar Valley, Utah for the period 1967-1970. In northern Colorado Olendorff (1973) found a mean of 1.47 young per nest during the period 1970-1972. Seibert et.al. noted a decrease in natality when jackrabbit (Lepus spp.) populations were low prior to egg laying. Although comparative information is not available, I suspect that jackrabbit and cottontail (Sylvilagus spp.) populations were fairly high on my study area during 1978 (in one evening I counted 57 cottontails and 38 jackrabbits. Some recently killed and also feeding rabbits were observed along the roadside between Baggs and Creston Junction, Wyoming, a distance of 50 miles). If so, the relatively high production by golden eagles on my study area might be explained by the prey abundance.

Golden eagle nests were placed upon a variety of structures in southern Wyoming. Of those nests located, 14.5 percent were in trees (4 in cottonwoods, 1 in a dead spruce, 1 in a limber pine (*Pinus flexilis*) and 1 in a ponderosa pine), 70.8 percent were on rimrock faces, 6.4 percent were on rock outcroppings, and 8.3 percent were on miscellaneous structures. Miscellaneous structures included 1 nest upon the ground, 1 nest on a gently sloping clay mound, 1 nest on a soil erosion bank, and 1 nest on an abandoned railroad trestle. All aspects were utilized by golden eagles for nesting, although northeastern exposures were avoided (between 0° and 90°). Nests with western aspects were more productive than were nests with eastern aspects ($\bar{x}$ = 1.29 young per nest having exposures between 0° and 180°; $\bar{x}$ = 1.55 young per nest having exposures between 181° and 359°).

Golden eagles were nearly ubiquitous in distribution among vegetation types present on the study area when suitable nesting sites were available. Rocky sites chosen for nesting were all greater than 15 feet in total height (the mean height being 47 feet). Trees chosen were generally large, and all over 30 ft. in total height. Golden eagles were observed hunting over all vegetation types represented on the study area.

Great Horned Owl

Great horned owls were among the earliest nesting raptors found on the study area. As with most owl species, the great horned owl does not construct its own nest, but often utilizes old *Buteo* hawk and golden eagle nests placed in trees. This pattern occasionally influences eventual local raptor nesting distributions.

A total of 15 active great horned owl nests were located on the study area. A significant number of nests had fledged young before being located. I obtained production information at 10 of those nests examined. An average of 2.0 young per nest was observed. Since fledging was occurring at some sites, incomplete counts of juveniles may have resulted. In Cedar Valley, Utah, Smith and Murphy (1973) found that during the period 1967-1970, great horned owls fledged a mean of 2.0 young per nest.

As Smith and Murphy noted, great horned owls and red-tailed hawks seem to exhibit a preference for similar habitats, although I noted great horned owls using a wider variety of nest site types (in cavities low on cliff faces and in cavities in soil banks).

Food Habits

Food habits were determined from prey remains found in nests. Although this was not an objective of the study, prey observed was recorded, and subsequently tabulated (Table 5).

Prey species observed included the Richardson Ground Squirrel (Citellus richardsoni), thirteen-lined ground squirrel (Spermophilus tridecemlineatus), northern pocket gopher (Thomomys talpoides), valley pocket gopher (Thomomys bottae), Ord Kangaroo Rat (Dipodomys ordi), cottontail, white-tailed jackrabbit (Lepus townsendi), white-tailed prairie dog, sage grouse (Centrocercus urophasianus), mallard (Anas platyrhynchos), western meadow-lark (Sturnella neglecta), western bluebird (Sialia mexicana), short-horned lizard (Pharanasoma douglassi), and the bullsnake (Pituophis melanoleucus).

This information, as with production data, may prove valuable for future comparisons. The importance of prey availability and prey species utilization should not be overlooked when attempting to determine trends in raptor nesting density and production (see Craighead and Craighead 1969; Otteni et.al. 1972).

SUMMARY

A total of 211 active raptor nests were located on the study area during 1978. Fifty-four ferruginous hawk nests, 39 red-tailed hawk nests, 3 Swainson's hawk nests, 25 prairie falcon nests, 14 American kestrel nests, 3 Richardson's merlin nests, 5 marsh harrier nests, 48 golden eagle nests, and 15 great horned owl nests were examined.

Ferruginous hawks fledged a mean of 1.89 young per active nest during 1978, red-tailed hawks fledged 2.41 young per nest, Swainson's Hawks fledged 1.60 young per nest, marsh harriers fledged 2.83 young per nest, prairie falcons fledged 4.00 young per nest, American Kestrels fledged 2.65 young per nest, golden eagles fledged 1.45 young per nest, and great horned owls fledged 2.00 young per nest.

Low production by ferruginous hawks, and suspected delays in reproductive chronology by some other species was suspected to have resulted from unseasonably cool, wet weather in late April and early May, and especially from a heavy snowstorm in late April.

Recommendations

I. The primary problem facing raptor populations on the study area is the increased disturbance and loss of habitat resulting from coal and uranium mining, and natural gas and oil drilling. Large projects may significantly alter raptor nesting habitat; however, smaller operations may be acceptable to raptors if disturbance at the nest is kept minimal. In order to reduce disturbance of nesting sites and of normal production, the following recommendations are suggested:

A. When possible, disturbing activities in raptor nesting areas (road grading, pipe laying, site preparation, drilling, mining, etc.)

should be delayed until 1 June. The majority of raptors have hatched eggs by this time, and the likelihood of desertion is reduced. Where golden eagles are the only species involved, 20 May could be considered a safe date unless young are observed in the nest at an earlier time.

B. When activities disrupt a nesting site for longer than one year, attempts may be made at constructing artificial nests nearby, in a less disturbed area. Often, raptors have several alternate nesting sites available within their home range, and usually one of these sites is naturally occupied in favor of the disturbed site. Cavity nesting species may be restricted by the number of suitable cavities available. If necessary, artificial cavities can be constructed, however they should mimic the original in size, depth, height from base and top of cliff, and aspect. Significant use of artificial nest sites by most raptor species has yet to be documented.

C. Nests subject to severe disturbance should not be climbed or examined unless observations are carried out from a distance which does not further disturb the adults (cause them to flush).

D. If destruction of a nest containing young is absolutely necessary, the young may be transferred to other nests (of the same species), containing young of about the same age. Care should be taken not to saturate a foster nest. Preferably, each chick from the nest to be destroyed should be placed in a different nest. Actions such as these should be cleared with U.S. Fish and Wildlife Service personnel and with the State wildlife agency.

E. Nests of endangered species (peregrine falcon and bald eagle) must be protected under the Endangered Species Act. If the nest of an endangered species is located, its position should be reported to land managers responsible for the area in question, the state non-game biologist, and to the U.S. Fish and Wildlife Service.

When reporting such nests and individual sightings of birds, it is important to report only what is seen, and no more. If an actual nest is not observed, it should not be assumed for the purposes of communication that one is present until further investigation reveals this to be the case. Do not report the age and sex of the bird unless you know for certain (or can make a qualified guess). If questioned directly about your observation, speculations may be of interest, however you should be sure the person to whom the information is presented understands that these are speculations rather than observations.

II. Better coordination of efforts between state wildlife agencies, the U.S. Fish and Wildlife Service, and the Bureau of Land Management could result in less overlap in field investigations. Prior to initiating

research, I would suggest that BLM biologists attempt the following.

A. Contact other potentially interested state and federal agencies and notify them of the intended research, dates of investigation, and areas to be investigated.

B. Request from other agencies all information on raptor nesting sites and production in the areas proposed to be surveyed.

C. Make the completed report on the investigation available to the other agencies.

D. If other agencies are planning similar investigations, coordination between field personnel can reduce duplication of effort, and result in a more complete coverage of the area in question.

III. Very little information is available regarding movement and mortality rates of ferruginous hawks from Wyoming. I would suggest the possibility of establishing a cooperative bird banding program with the Wyoming Game and Fish Department. Information obtained from such a banding program may indeed be marginal, but it would add to knowledge of the local population, and aid in designing land use and habitat management programs which consider the ferruginous hawk.

IV. Management of habitat for raptors is an unusual occurrence at the present time. However, in the future land managers may find increasing demands for such a program. Although many of the habitat requirements of various raptors on the study area are similar, niche overlap among diurnal or nocturnal species does not appear significant (Smith and Murphy 1973). Variations in food habits, nest site selection, and utilization of habitat are primarily responsible for the differentiation of niches.

Based upon information currently available on the study area, land managers can best manage habitat by protecting existing nesting sites and prey populations. Although many nesting sites have been documented, information on food habits remains minimal. Where future raptor nesting studies are planned, I would suggest all information on prey species observed in nests, etc. be recorded for future use. Collections, dissections, and analysis of owl pellets can provide valuable information, especially on winter food habits of raptors (for techniques on pellet collection and dissection see Marti, 1973).

V. Falconry is a sport, increasing in popularity, where raptors are utilized to capture game animals. The practice is recognized, and state and federal regulations govern issuance of permits permitting the taking and "training" of birds.

Falconers, practicing the sport legally, may take birds either by removing young from the nest (an eyas bird), or by trapping an immature (passage) bird. Falconers, like all recreationists, deserve respect and cooperation when operating within the law.

Falconry should be recognized as a management technique, in much the same way as is game hunting. Information presented in this paper indicates that a significant surplus of juvenile raptors is produced each year, and harvest of the surplus by legitimate means need not be objectionable. In order to better use this management tool, however, problems currently being experienced should be considered for correction.

Certain raptor nest sites, primarily those of some prairie falcons, are subjected to nest "raids" each year, due primarily to easy access. Falconers obtaining licenses for removal of birds from nests should be discouraged from removing birds from these harassed sites. Where possible, nests authorized for harvest should be located in areas where nesting density is high, since competition after fledging may result in higher mortality among juveniles anyway. Again, if the state agency were to attempt this type of regulation, cooperation by BLM biologists in suggesting areas for harvest would be helpful.

VI. The information presented in this paper is designed to provide baseline production information useful in future comparisons. Continued documentation of production is suggested, since trends may be determined only after observing raptor production for several years.

Production among all but ferruginous hawks was high during 1978. I have suggested that climactic conditions might have been responsible for low production by this species during 1978. However, only after comparative data has been obtained in future years can conclusions be drawn.

I concur with the suggestion by Mayo Call, Avian Biologist, that at least 50 raptor nests of various species should be examined on each BLM District during the breeding season each year. I would add, however, that special effort should be directed towards monitoring ferruginous hawk nests for at least the next five years.

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Table 1. RAPTOR PRODUCTION AND NEST SUCCESS IN SOUTHERN
WYOMING BY BLM DISTRICT (1978)

Species and BLM District	Number of Nests 1/	Young/ Active Nest	Young/ Successful Nest	% Nests Successful 2/
<u>Ferruginous Hawk</u>	54	1.89	2.62	72.3
Rawlins	46	1.52	2.25	69.5
Rock Springs	8	2.25	3.00	87.5
<u>Red-tailed Hawk</u>	26	2.41	2.41	100.0
Rawlins	7	2.28	2.28	100.0
Rock Springs	19	2.53	2.53	100.0
<u>Swainson's Hawk</u>	3	1.60	2.25	66.6
Rawlins	3	1.60	2.25	66.6
Rock Springs				
<u>Marsh Harrier</u>	5	2.83	3.50	80.0
Rawlins	3	2.66	4.00	66.6
Rock Springs	2	3.00	3.00	100.0
<u>Prairie Falcon</u>	15	4.00	4.00	100.0
Rawlins	9	4.00	4.00	100.0
Rock Springs	6	4.00	4.00	100.0
<u>American Kestrel</u>	4	2.65	2.65	100.0
Rawlins	1	2.00	2.00	100.0
Rock Springs	3	3.30	3.30	
<u>Golden Eagle</u>	46	1.45	1.50	95.3
Rawlins	24	1.20	1.20	95.6
Rock Springs	22	1.63	1.71	95.0
<u>Great horned Owl</u>	10	2.00	2.00	100.0
Rawlins	6	2.00	2.00	100.0
Rock Springs	4	2.00	2.00	100.0

- 1/ Total number of active nests from which production information was obtained.
- 2/ Species indicated as experiencing 100 percent success reflect a bias in obtaining production information, therefore no nest failures were observed.

Table 2. Chronology of Raptor Nests in Southern Wyoming (1978) 1/

<u>SPECIES</u>	<u>Egg Laying</u>	<u>Incubation</u>	<u>Hatching</u>	<u>Fledging</u>
Ferruginous Hawk	4/12 - 4/28	4/15 - 5/30	5/15 - 5/30	6/27 - 7/7
Red-tailed Hawk	4/12 - 5/12	4/15 - 6/13	5/13 - 6/13	6/21 - 7/11
Swainson's Hawk	5/19 - 5/27	5/19 - 6/27	6/18 - 6/27	7/25 - 8/10
Marsh Harrier	5/1 - 6/10	5/4 - 7/10	5/29 - 7/10	6/30 - 8/7
Prairie Falcon	4/20 - 5/30	4/22 - 6/30	5/10 - 6/30	6/19 - 8/9
American Kestrel	4/25 - 6/3	4/27 - 6/5	5/25 - 6/5	6/20 - 7/22
Golden Eagle	3/11 - 4/4	3/15 - 5/18	4/7 - 5/18	6/12 - 7/11
Great Horned Owl	3/20 - 4/15	3/20 - 5/17	4/19 - 5/17	5/29 - 6/26

1/ Determined chronology of nests is based upon observations made during 1978 only. Information may prove atypical for some species.

Table 3. Nest Site Selection by Raptor Species (1978)

<u>Species</u>	<u>Number of Nests on Indicated Structure</u>			
	Ground	Trees or Shrubs	Rimrock and Rock Outcrops	Other 1/
Ferruginous Hawk	19	10	18	7
Red-tailed Hawk		26	13	
Swainson's Hawk		6		
Prairie Falcon			25	
American Kestrel		10	4	
Richardson's Merlin		3		
Marsh Harrier	5			
Golden Eagle	1	7	37	4
Great Horned Owl		6	9	
TOTAL	25 (11.9%)	68 (32.4%)	106 (50.5%)	11 (5.2%)

1/ Structures in this category are described in the text

Table 4. Number of Juveniles Fledged, 1978,
Expected to Survive Until Maturation

<u>Species</u>	Number of Nests	Number Young Fledged, 1978	Year Young Expected to 1st Breed 2/	Number Young Expected to Survive until Breeding Age 1/
Ferruginous Hawk	54	88	1980	14.5
Prairie Falcon	15	60	1980	13.5
Golden Eagle	46	65	1982	19.6

1/ Calculated utilizing information presented by Enderson (1969), Snow (1974), and McGahan (1968).

2/ Age at sexual maturity, for purposes for these calculations, was determined to be two years for prairie falcons and ferruginous hawks, and four years for golden eagles. I realize that individuals of these species may breed earlier under certain environmental conditions.

Table 5. Food Habits of Selected Raptors on the Study Area (1978)

Total Number of Individual Prey Items Observed (% of Diet)

Ferruginous Hawk Golden Eagle Red-tailed Hawk Prairie Falcon Marsh Harrier

Prey Species - Mammals

Richardson Ground Squirrel	23(38.3)	7(12.1)	18(78.2)	2(18.1)	
Thirteen-lined Ground Squirrel	7(11.7)		1(4.3)	1(9.1)	
Northern Pocket Gopher	12(20.0)				1(20.0)
Valley Pocket Gopher	1(1.6)				
Ord Kangaroo Rat					1(20.0)
Cottontail	12(20.0)	27(46.5)	4(17.3)	2(18.2)	1(20.0)
Whitetail Jackrabbit		14(24.1)			
White-tailed Prairie Dog	4(6.7)	6(10.3)		1(9.1)	

Birds

Sage Grouse		2(3.4)			
Mallard		1(1.7)			
Western Meadowlark				4(36.3)	1(20.0)
Western Bluebird				1(9.1)

Table 5. Food Habits of Selected Raptors on the Study Area (1978)

Total Number of Individual Prey Items Observed (% of Diet)

	Ferruginous Hawk	Golden Eagle	Red-tailed Hawk	Prairie Falcon	Marsh Harrier
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Reptiles

Short-horned
Lizard

1(20.0)

Bullsnake

1(1.6)

1(1.7)

Fig. 2 Ferruginous hawk nesting success and production by aspect
(n = number of active nests in indicated aspect).

Fig. 2. Study Area

APPENDIX I

Raptor Inventory Data Sheets

To facilitate collection of data in the field, all pertinent information was recorded on a Raptor Inventory Data Sheet. A sheet was prepared for each nest located on the study area. Most of the information recorded is self explanatory, however the following definitions are offered:

1. Nest number - (see text, Methods)
2. Observer - the name of the person making the observation
3. Location - Township, Range, and Section of nest site.
Numbers in parentheses following location indicate BLM surface management quadrangle map on which the nest was located.
4. Land Ownership - status of land on which the nest was located.
5. Nest substrate - structure on which nest was constructed.
6. Height of substrate - Total height of nest substrate (excluding talus slope).
7. Height of nest above ground - height of nest from top of talus or base of structure.
8. Active - a nest in which eggs were deposited during 1978. Nests that had been abandoned were noted as such in the remarks section. The inactive column was not used.
9. No. of eggs or young - number of eggs or young observed in nest at time of observation. In some cases nests were re-visited, and the production observed on later visits was recorded in this section. Changes in number of eggs or young is recorded in the remarks section.
10. Exposure - the aspect of the nest. In all cases the exposure indicated the direction from which the nest was least protected.
11. Elevation - no nest elevations were determined.
12. Vegetation type - primary vegetation types in the vicinity of the nest. In some cases percentage of each vegetation type was estimated.
13. Remarks - comments.
14. Map - BLM surface ownership quadrangle section, showing nest location.
15. Photograph - photograph of nest or young. Photographs of Richardson's Merlins are of the adult females at two nests.

APPENDIX II

Raptor Production Tables

These tables summarize the locations and production of nests¹ included on the Raptor Inventory Data Sheets. Nests are referred to by species codes.

Raptor Production Table (1978)

Ferruginous Hawk

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. F1-78	16N	73W	15	Rawlins	5/22/78		4
2. F2-78	22N	80W	1	Rawlins	5/23/78		3
3. F3-78	22N	80W	14	Rawlins	5/23/78	1 (Addled)	3
4. F4-78	22N	77W	27	Rawlins	5/24/78		2
5. F5-78	20N	75W	8	Rawlins	5/24/78	2 (Abandoned)	
6. F6-78	21N	72W	35	Rawlins	5/24/78		4 (1 dead)
7. F7-78	21N	80W	18	Rawlins	5/25/78		2
8. F8-78	25N	78W	17	Rawlins	5/25/78	1 (Abandoned)	
9. F9-78	25N	78W	6	Rawlins	5/25/78	(Abandoned)	
10. F10-78	26N	79W	36	Rawlins	5/25/78	2 (Abandoned)	
11. F11-78	26N	77W	7	Rawlins	5/25/78		2
12. F12-78	26N	77W	18	Rawlins	5/25/78		1
13. F13-78	26N	76W	15	Rawlins	5/25/78	3 (Abandoned)	
14. F14-78	25N	76W	33	Rawlins	5/25/78	3 (1 Broken)	
15. F15-78	25N	76W	19	Rawlins	5/25/78	(Abandoned)	
16. F16-78	13N	73W	15	Rawlins	5/31/78		3
17. F25-78	21N	89W	13	Rawlins	6/12/78	2 (Abandoned)	
18. F26-78	30N	97W	25	Rawlins	6/13/78		1
19. F27-78	27N	94W	22	Rawlins	6/13/78		1
20. F28-78	27N	94W	27	Rawlins	6/13/78	1 (Abandoned)	
21. F29-78	27N	94W	27	Rawlins	6/13/78		5
22. F30-78	27N	95W	13	Rawlins	6/13/78	2 (Addled)	2
23. F31-78	20N	90W	4	Rawlins	6/14/78		1
24. F32-78	15N	78W	6	Rawlins	6/16/78		3
25. F33-78	15N	77W	24	Rawlins	6/16/78	(Abandoned)	
26. F34-78	18N	92W	5	Rawlins	7/6/78	1 (Abandoned)	
27. F35-78	17N	92W	6	Rawlins	7/7/78		4

Raptor Production Table (1978)

Ferruginous Hawk

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
28. F36-78	15N	92W	10	Rawlins	7/7/78	2 (Abandoned) (Abandoned)	2
29. F37-78	14N	90W	18	Rawlins	7/8/78		1
30. F38-78	14N	91W	23	Rawlins	7/8/78		1
31. F39-78	13N	91W	4	Rawlins	7/8/78		
32. F40-78	16N	92W	5	Rawlins	7/8/78		
33. F41-78	28N	96W	4	Rawlins	7/10/78		2
34. F42-78	28N	96W	9	Rawlins	7/10/78		2
35. F43-78	28N	97W	16	Rawlins	7/10/78		3
36. F44-78	29N	96W	28	Rawlins	7/11/78		2
37. F45-78	13N	90W	5	Rawlins	7/10/78		3
38. F46-78	13N	91W	18	Rawlins	7/10/78	2 (Abandoned) (Abandoned)	2
39. F47-78	22N	96W	28	Rawlins	7/10/78		3
40. F48-78	19N	91W	26	Rawlins	7/7/78		
41. F49-78	20N	93W	4	Rawlins	7/6/78		3
42. F50-78	20N	90W	7	Rawlins	7/7/78		1
43. F51-78	19N	110W	7	Rawlins	6/1/78		
44. F52-78	30N	96W	16	Rawlins	7/11/78		3
45. F53-78	30N	97W	24	Rawlins	7/11/78		1
46. F54-78	30N	96W	31	Rawlins	7/11/78		1
47. F17-78	22N	110W	24	Rock Springs	6/1/78		
48. F18-78	18N	101W	17	Rock Springs	6/2/78	3 (Outcome Unknown)	
49. F19-78	18N	101W	20	Rock Springs	6/2/78		2
50. F20-78	16N	102W	34	Rock Springs	6/2/78		3
51. F21-78	15N	102W	14	Rock Springs	6/2/78		2
52. F22-78	18N	103W	35	Rock Springs	6/3/78		4
53. F23-78	18N	101W	17	Rock Springs	6/3/78		3
54. F24-78	15N	102W	14	Rock Springs	6/4/78		4

Raptor Production Table (1978)

Red-tailed Hawk

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. RT1-78	17N	77W	4	Rawlins	5/22/78		3
2. RT4-78	21N	83W	32	Rawlins	5/26/78		3
3. RT13-78	19N	89W	16	Rawlins	6/14/78		3
4. RT14-78	19N	89W	7	Rawlins	6/14/78		2
5. RT16-78	21N	81W	27	Rawlins	6/15/78		2
6. RT26-78	28N	91W	10	Rawlins	7/11/78		1
7. RT38-78	91W	13N	33	Rawlins	7/10/78		2
8. RT2-78	20N	76W	7	Rawlins	5/24/78	*	
9. RT3-78	19N	77W	2	Rawlins	5/24/78	*	
10. RT15-78	20N	82W	10	Rawlins	6/15/78	*	
11. RT6-78	23N	110W	34	Rock Springs	6/1/78		3
12. RT7-78	22N	109W	29	Rock Springs	6/24/78		3
13. RT8-78	17N	102W	30	Rock Springs	6/3/78		2
14. RT9-78	18N	103W	1	Rock Springs	6/3/78		2
15. RT10-78	16N	105W	18	Rock Springs	6/3/78		2
16. RT11-78	15N	104W	29	Rock Springs	6/3/78		1
17. RT12-78	20N	102W	20	Rock Springs	6/5/78		3
18. RT17-78	25N	112W	5	Rock Springs	6/21/78		1
19. RT18-78	26N	112W	18	Rock Springs	6/21/78		1
20. RT19-78	30N	105W	21	Rock Springs	6/22/78		3
21. RT20-78	30N	105W	17	Rock Springs	6/22/78		2
22. RT21-78	23N	111W	26	Rock Springs	6/24/78		3
23. RT22-78	20N	109W	26	Rock Springs	6/24/78		2
24. RT37-78	19N	111W	34	Rock Springs	6/1/78		3
25. RT23-78	20N	108W	6	Rock Springs	6/24/78		4
26. RT24-78	16N	102W	32	Rock Springs	6/25/78		4
27. RT27-78	23N	111W	15	Rock Springs	6/24/78	*	

*Active nests from which production was not ascertained

Raptor Production Table (1978)

Swainson's Hawk

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. S1-78	23N	79W	35	Rawlins	5/23/78	2 (Abandoned)	2 3
2. S4-78	13N	72W	3	Rawlins	7/6/78		
3. S5-78	14N	72W	27	Rawlins	7/6/78		
4. S2-78	22N	78W	28	Rawlins	5/25/78	*	
5. S3-78	22N	109W	29	Rock Springs	6/24/78	*	
6. S6-78	20N	109W	16	Rock Springs	6/24/78	*	

*Active nests from which production was not ascertained.

Raptor Production Table (1978)

Marsh Harrier

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. H3-78	20N	91W	19	Rawlins	7/6/78	5 (Abandoned)	5
2. H4-78	13N	91W	4	Rawlins	7/8/78		
3. H5-78	19N	92W	2	Rawlins	7/9/78		3
4. H1-78	21N	102W	34	Rock Springs	6/5/78	3	3
5. H2-78	23N	113W	12	Rock Springs	6/21/78

Raptor Production Table (1978)

Prairie Falcon

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. P1-78	22N	78W	2	Rawlins	5/26/78		5
2. P6-78	21N	78W	31	Rawlins	5/25/78		4
3. P15-78	19N	89W	7	Rawlins	6/14/78		3
4. P16-78	19N	90W	9	Rawlins	6/14/78		4
5. P21-78	17N	92W	5	Rawlins	7/6/78		5
6. P22-78	15N	92W	25	Rawlins	6/7/78		4
7. P23-78	16N	92W	16	Rawlins	7/9/78		3
8. P24-78	29N	90W	8	Rawlins	7/11/78		4
9. P25-78	30N	89W	15	Rawlins	7/11/78		4
10. P2-78	21N	78W	15	Rawlins	5/25/78	*	
11. P3-78	21N	78W	35	Rawlins	5/23/78	*	
12. P4-78	21N	78W	34	Rawlins	5/26/78	*	
13. P5-78	21N	79W	33	Rawlins	5/26/78	*	
14. P7-78	22N	81W	5	Rawlins	5/26/78	*	
15. P7-78	18N	103W	25	Rock Springs	6/2/78		5
16. P11-78	18N	101W	30	Rock Springs	6/3/78		4
17. P17-78	29N	105W	17	Rock Springs	6/22/78		4
18. P18-78	29N	105W	19	Rock Springs	6/22/78		4
19. P19-78	21N	109W	36	Rock Springs	6/24/78		2
20. P20-78	19N	108W	22	Rock Springs	6/24/78		5
21. P8-78	18N	101W	20	Rock Springs	6/3/78	*	
22. P10-78	17N	102W	11	Rock Springs	6/2/78	*	
23. P12-78	17N	103W	1	Rock Springs	6/3/78	*	
24. P13-78	15N	100W	4	Rock Springs	6/4/78	*	
25. P14-78	31N	96W	11	Rock Springs	6/13/78	*	
26. P16-78	19N	90W	9	Rock Springs	6/14/78	*	

*Active nests from which production was not ascertained

Raptor Production Table (1978)

American Kestrel

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. K4-78	31N	96W	11	Rawlins	6/13/78		2
2. K1-78	22N	78W	29	Rawlins	5/25/78	*	
3. K6-78	15N	92W	21	Rawlins	7/9/78	*	
4. K3-78	23N	110W	32	Rock Springs	6/1/78		2
5. K5-78	29N	105W	17	Rock Springs	6/22/78		5
6. K14-78	19N	108W	25	Rock Springs	6/24/78		3
7. K2-78	23N	110W	31	Rock Springs	6/10/78	*	
8. K3-78	23N	110W	32	Rock Springs	6/1/78	*	
9. K7-78	23N	111W	23	Rock Springs	6/16/78	*	
10. K8-78	22N	110W	2	Rock Springs	6/24/78	*	
11. K9-78	21N	109W	5	Rock Springs	6/24/78	*	
12. K10-78	21N	109W	26	Rock Springs	6/24/78	*	
13. K11-78	20N	109W	22	Rock Springs	6/24/78	*	
14. K12-78	20N	109W	26	Rock Springs	6/24/78	*	
15. K13-78	20N	109W	26	Rock Springs	6/24/78	*	

*Active nests from which production was not ascertained

Raptor Production Table (1978)

Richardson's Merlin

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. M1-78	22N	110W	5	Rock Springs	6/24/78	*	
2. M2-78	22N	109W	29	Rock Springs	6/24/78	*	
3. M3-78	21N	109W	5	Rock Springs	6/24/78	*	

*Active nests from which production was not ascertained

Raptor Production Table (1978)

Screech Owl

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. S01-78	20N	78W	34	Rawlins	5/24/78	*	

*Active nests from which production was not ascertained

Raptor Production Table (1978)

Burrowing Owl

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. B01-78	21N	89W	17	Rawlins	6/12/78		3

Raptor Production Table (1978)

Golden Eagle

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. GE1-78	18N	79W	19	Rawlins	5/22/78	1 egg (Abandoned)	1
2. GE2-78	20N	83W	20	Rawlins	5/23/78		1
3. GE3-78	21N	77W	20	Rawlins	5/24/78		1
4. GE4-78	21N	75W	33	Rawlins	5/24/78		1
5. GE5-78	21N	75W	15	Rawlins	5/24/78		1
6. GE6-78	21N	79W	30	Rawlins	5/24/78		1
7. GE7-78	21N	79W	16	Rawlins	5/25/78		1
8. GE8-78	20N	80W	36	Rawlins	5/26/78		1
9. GE9-78	20N	79W	15	Rawlins	5/26/78		1
10. GE10-78	21N	80W	30	Rawlins	5/26/78		1
11. GE11-78	20N	84W	1	Rawlins	5/26/78	1 egg (Abandoned)	2
12. GE12-78	21N	83W	6	Rawlins	5/26/78		1
13. GE13-78	21N	84W	14	Rawlins	5/26/78		1
14. GE14-78	24N	77W	5	Rawlins	5/25/78		2
15. GE24-78	31N	96W	20	Rawlins	6/13/78		1
16. GE25-78	28N	92W	16	Rawlins	6/13/78		1
17. GE26-78	19N	90W	4	Rawlins	6/14/78		1
18. GE27-78	19N	90W	4	Rawlins	6/14/78		2
19. GE28-78	19N	74W	14	Rawlins	6/15/78		1
20. GE41-78	14N	91W	36	Rawlins	7/8/78		1
21. GE42-78	15N	92W	21	Rawlins	7/9/78	1 egg (Abandoned)	2
22. GE43-78	28N	89W	35	Rawlins	7/10/78		1
23. GE44-78	30N	92W	36	Rawlins	7/11/78		2
24. GE45-78	31N	91W	36	Rawlins	7/11/78		1
25. GE16-78	21N	111W	12	Rock Springs	6/1/78		1
26. GE17-78	18N	103W	25	Rock Springs	6/2/78		2
27. GE18-78	18N	101W	20	Rock Springs	6/2/78		1

Raptor Production Table (1978)

Golden Eagle

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
28. GE19-78	18N	101W	20	Rock Springs	6/2/78	2 (Abandoned)	2
29. GE20-78	18N	101W	9	Rock Springs	6/2/78		
30. GE21-78	18N	101W	9	Rock Springs	6/2/78		2
31. GE22-78	16N	102W	30	Rock Springs	6/3/78		1
32. GE23-78	15N	100W	4	Rock Springs	6/4/78		2
33. GE29-78	21N	112W	19	Rock Springs	6/1/78		2
34. GE30-78	30N	105W	21	Rock Springs	6/22/78		2
35. GE31-78	30N	105W	30	Rock Springs	6/22/78		2
36. GE32-78	29N	105W	18	Rock Springs	6/22/78		1
37. GE33-78	22N	109W	32	Rock Springs	6/24/78		2
38. GE34-78	22N	109W	20	Rock Springs	6/24/78		1
39. GE35-78	19N	108W	25	Rock Springs	6/24/78		2
40. GE36-78	21N	109W	8	Rock Springs	6/24/78		2
41. GE37-78	20N	108W	31	Rock Springs	6/23/78		2
42. GE38-78	19N	107W	9	Rock Springs	6/24/78		2
43. GE39-78	19N	107W	9	Rock Springs	6/24/78		2
44. GE40-78	22N	109W	29	Rock Springs	6/25/78		2
45. GE48-78	23N	110W	34	Rock Springs	6/24/78		1
46. GE15-78	20N	110W	20	Rock Springs	6/24/78		2
47. GE46-78	23N	110W	34	Rock Springs	5/31/78	* *	2
48. GE47-78	23N	110W	32	Rock Springs	6/16/78		

*Active nests for which production was not ascertained

Raptor Production Table (1978)

Great horned Owl

State Wyoming

Nest No.	Location			District	Date	No. of eggs	No. of young
	T	R	S				
1. GH01-78	17N	77W	4	Rawlins	5/23/78		2
2. GH02-78	24N	85W	27	Rawlins	5/24/78		3
3. GH03-78	22N	77W	36	Rawlins	5/24/78		1
4. GH04-78	23N	78W	32	Rawlins	5/24/78		2
5. GH010-78	19N	89W	7	Rawlins	6/14/78		3
6. GH011-78	20N	82W	11	Rawlins	6/15/78		1
7. GH05-78	22N	79W	5	Rawlins	5/25/78	*	
8. GH012-78	16N	92W	16	Rawlins	7/9/78	*	
9. GH07-78	22N	113W	32	Rock Springs	5/31/78		2
10. GH09-78	21N	109W	5	Rock Springs	6/1/78		2
11. GH015-78	18N	103W	36	Rock Springs	6/2/78		3
12. GH013-78	23N	110W	31	Rock Springs	6/1/78		1
13. GH08-78	19N	93W	21	Rock Springs	7/8/78	*	
14. GH014-78	23N	110W	32	Rock Springs	6/16/78	*	

*Active nests for which production was not ascertained

APPENDIX III

Golden Eagle Nesting Surveys

Considerable controversy has arisen during recent years regarding the legality of conducting golden eagle nesting surveys when the chances of disturbing adult and young eagles exists. Under the Bald Eagle Protection Act of 1940, as amended, it is illegal (among other things) to "take" (where take is defined to include "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, or molest or disturb") golden and bald eagles unless permitted (as defined under sub-part B, 22.13 and sub-part C, 22.21 of the same Act).

Under the Federal Land Policy and Management Act, however, the BLM has the authority and responsibility to inventory all resources on the public lands. As most raptor inventories, at some point, result in disturbances of nests, there appears a direct conflict exists.

Recently, consultation between personnel of the Colorado State BLM Office and personnel of the Region 6 U.S. Fish and Wildlife Service resulted in clarification of the issue. The text of the discourse provides that a permit to molest and disturb eagles will be issued to the Colorado State BLM Director. He, in turn, has the authority to delegate biologists within the State, at his discretion, with the powers provided in the permit. Biologists delegated the permitted powers must be named on the permit. I do not know whether actions are being taken in other states to obtain the same permit policy.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLER Nest Number GE1-78

Date of Observation 5/22/78 Species GOLDEN EAGLE

Land Ownership: (P) S BLM Location: T18N R79W Sec. 19 (SE 21)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 70'

Height of Nest Above Ground 60'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure E

Elevation

Vegetative Type RIPARIAN,

Mixed GRASS, BROAD LEAVED
WOODLAND.

Remarks: Chick ~ 2wks.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILSAP Nest Number GE 2-78
Date of Observation 5/23/78 Species Golden Eagle
Land Ownership: (P) S BLM Location: T20N R83W Sec. 20 (SE14)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 40'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure WSW

Elevation _____

Vegetative Type Sagebrush,
mixed grasses

Remarks: Chick ~ 2 wks
old this date. Nest 25 yds
from highway 30, SE side

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GE 4-78

Date of Observation 5/24/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T21N R75W Sec. 33 (SE15)

Description of Nest Site:

Nest Substrate RR trestle (abn)

Height of Substrate 15'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 1x

Exposure S

Elevation _____

Vegetative Type Riparian (10%)

mixed grasses (90%)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number GE5-78

Date of Observation 5/24/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T21N R75W Sec. 15 (SE15)

Description of Nest Site:

Nest Substrate Soil Bank

Height of Substrate 30'

Height of Nest Above Ground 28'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure WNW

Elevation _____

Vegetative Type mixed grasses
sage brush

Remarks: Nest unstable -

8 jack rabbits, 1 antelope
fawn, 1 sage grouse, 1
mallard ♀ in nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number GE 6-78
Date of Observation 5/24/78 Species Golden Eagle
Land Ownership: P S (BLM) Location: T21N R 79W Sec. 30 (SE15)

Description of Nest Site:

Nest Substrate Ponderosa
~~Pine~~

Height of Substrate 40'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 1x

Exposure SE

Elevation _____

Vegetative Type Sagebrush

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GE 7-78

Date of Observation 5/25/78

Species Golden Eagle

Land Ownership: P (S) BLM

Location: T21N R 79W Sec. 16 (SE 15)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 30'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SE

Elevation _____

Vegetative Type Sagebrush (80%)

mixed grasses (20%)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP Nest Number GE 8-78
Date of Observation 5/26/78 Species Golden Eagle
Land Ownership: P (S) BLM Location: T 20N R 80W Sec. 36 (SE 14)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 20'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SSW

Elevation _____

Vegetative Type sagebrush,
mixed grasses (<20%)

Remarks: In deep cavity
barely visible from I 80.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number GE9-78
Date of Observation 5/26/79 Species Golden Eagle
Land Ownership: P S BLM Location: T20N R 79W Sec. 15 (SE 14)

Description of Nest Site:

Nest Substrate Tenderosa
Pine

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 1Y

Exposure SE

Elevation _____

Vegetative Type sage brush,
mixed grasses

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number GE 10-78

Date of Observation 5/26/78 Species Golden Eagle

Land Ownership: (P) S BLM Location: T21N R 80W Sec. 30 (SE 14)

Description of Nest Site:

Nest Substrate Rock

Height of Substrate 40'

Height of Nest Above Ground 35'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SW

Elevation _____

Vegetative Type sage brush
mixed grasses

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number BE11-78
Date of Observation 5/26/78 Species Golden Eagle
Land Ownership: (P) S BLM Location: T 20N R 84W Sec. 1

Description of Nest Site:

Nest Substrate Rimrock
Height of Substrate 30'
Height of Nest Above Ground 25'
Active ☒ Inactive ☐
No. of Eggs or Young 2y
Exposure N
Elevation _____
Vegetative Type mixed
grasses

Remarks: Both young dead-
much litter over them.
Nest abandon-

(Photograph)

Raptor Production Table (1978)

Red-tailed Hawk State Wyoming

Nest No.	Location		District	Date	No. of eggs	No. of young
	T	R				
28. RT28-78	23N	111W	Rock Springs	6/16/78	*	
29. RT29-78	23N	111W	Rock Springs	6/16/78	*	
30. RT30-78	23N	110W	Rock Springs	6/16/78	*	
31. RT31-78	22N	110W	Rock Springs	6/24/78	*	
32. RT32-78	22N	110W	Rock Springs	6/24/78	*	
33. RT33-78	22N	109W	Rock Springs	6/24/78	*	
34. RT34-78	21N	109W	Rock Springs	6/24/78	*	
35. RT35-78	21N	109W	Rock Springs	6/24/78	*	
36. RT36-78	19N	108W	Rock Springs	6/24/78	*	
37. RT37-78	24N	111W	Rock Springs	6/24/78	*	
38. RT38-78	21N	118W	Rock Springs	5/31/78	*	2
39. RT39-78	21N	119W	Rock Springs	6/14/78	*	4
40. RT40-78	21N	119W	Rock Springs	6/14/78	*	3

*Active nests from which production was not ascertained

[for field notebook (looseleaf)]

Observer BRIAN MILLSAP

Nest Number GE 12-78

Date of Observation 5/26/78

Species *Golden Eagle*

Land Ownership: P S (BLM)

Location: T21N R 83W Sec. 6 (SE14)

Description of Nest Site:

Nest Substrate Kimrock

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ InactiveNo. of Eggs or Young 14Exposure *ESE*

Elevation

Vegetative Type sagebrush (6%)
mixed grass (40%).

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number GE 13-78
Date of Observation 5/26/78 Species Golden Eagle
Land Ownership: P S (BLM) Location: T21N R84W Sec. 14 (SE 14)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 70'

Height of Nest Above Ground 60'

Active ☒ Inactive ☐

No. of Eggs or Young 1x

Exposure SSW

Elevation _____

Vegetative Type Riparian,
sage brush, mixed grasses.

Remarks: May have been
2 young earlier, only
one on 7/7/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number GE 14-78
Date of Observation 5/25/78 Species Golden Eagle
Land Ownership: B S BLM Location: T 24N R 77W Sec. 5 (SE 9)

Description of Nest Site:

Nest Substrate Rimrock
Height of Substrate ≈ 30'
Height of Nest Above Ground ≈ 20
Active ☒ Inactive ☐
No. of Eggs or Young 2 y
Exposure SSW
Elevation _____
Vegetative Type mixed grasses,
sage brush

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP

Nest Number GE 15-78

Date of Observation 5/31/78

Species GOLDEN EAGLE

Land Ownership: P S BLM

Location: T20N R110W Sec. 20 (SW12)

Description of Nest Site:

Nest Substrate Clay hill

Height of Substrate 40'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure NW

Elevation _____

Vegetative Type sage brush,
mixed grasses

Remarks: Within 20yds of
gas well.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number GE 16-78

Date of Observation 6/1/78

Species GOLDEN EAGLE

Land Ownership: P S (BLM)

Location: T 21N R 111W Sec. 12 (SW12)

Description of Nest Site:

Nest Substrate GROUND

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure NW

Elevation _____

Vegetative Type Sagebrush (90%)

Mixed GRASSES (10%)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Munsap

Nest Number GE17-78

Date of Observation 6/2/79

Species GOLDEN EAGLE

Land Ownership: P S BLM

Location: T 18N R 103W Sec. 25 (SW19)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 150'

Height of Nest Above Ground 100'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure NW

Elevation _____

Vegetative Type Mixed Grass,
SAGE BRUSH

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer FRANK MULLER Nest Number GE 18-78
Date of Observation 6/2/78 Species GOLDEN EAGLE
Land Ownership: P S (ELM) Location: T18N R10W Sec. 20 (SW19)

Description of Nest Site:

Nest Substrate Runrock

Height of Substrate 20'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure NE

Elevation _____

Vegetative Type Sage brush,
Mixed grasses.

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILSAP Nest Number GE19-78
Date of Observation 6/2/78 Species Golden Eagle
Land Ownership: P S BLM Location: T14N R10W Sec. 20 (SW19)

Description of Nest Site:

Nest Substrate Pinrock
Height of Substrate 50'
Height of Nest Above Ground 40'
Active ☒ Inactive ☐
No. of Eggs or Young 2y
Exposure N
Elevation _____
Vegetative Type Mixed Grass

Ref

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number GE 20-78
Date of Observation 6/2/78 Species Golden Eagle
Land Ownership: P S BLM Location: T 18N R 101W Sec. 9D (SW 19)

Description of Nest Site:

Nest Substrate Pinrock
Height of Substrate 50'
Height of Nest Above Ground 40'
Active ☒ Inactive ☐
No. of Eggs or Young 2 egg*
Exposure ESE
Elevation _____
Vegetative Type sagebrush,
mixed grasses

Remarks: * Nest abandoned -
no apparent reason

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number GE 21-78

Date of Observation 6/2/78

Species Golden Eagle

Land Ownership: P S (BLM)

Location: T 18N R 10W Sec. 9 (SW 1/4)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 30

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure NW

Elevation _____

Vegetative Type Mixed grass

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulcahy

Nest Number GE22-78

Date of Observation 6/3/78

Species Golden Eagle

Land Ownership: P S BLM

Location: T 16N R 102W Sec. 30 (SW 19)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 14

Exposure NW

Elevation _____

Vegetative Type Sagebrush

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP

Nest Number GE23-78

Date of Observation 6/4/79

Species GOLDEN Eagle

Land Ownership: P S (BLM)

Location: T15N R100W Sec. 4 (SW 19)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 150'

Height of Nest Above Ground 75'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure NE

Elevation _____

Vegetative Type Sagebrush (90%)

Conifer woodland (10%)

Remarks: Observed an immature
Eagle helping adult add
sticks to nest. Young
(2 1/2 wks) in nest.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GE 24-78

Date of Observation 6/13/78

Species Golden Eagle

Land Ownership: P S BLM

Location: T31N R96W Sec. 20 (SW5)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 70'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SW

Elevation _____

Vegetative Type Sagebrush,

riparian

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number GE 25-78

Date of Observation 6/13/78

Species Golden Eagle

Land Ownership: P (S) BLM

Location: T28N R 92W Sec. 16 (SW10)

Description of Nest Site:

Nest Substrate Lumber Pine

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SE

Elevation _____

Vegetative Type Mixed grasses,
scattered conifer

Remarks: Very disturbed
area - Uranium mining

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GE 26-78

Date of Observation 6/14/78

Species Golden Eagle

Land Ownership: P S BLM

Location: T19N R 90W Sec. 4 (SE13)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 100'

Height of Nest Above Ground 80'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SE

Elevation _____

Vegetative Type sagebrush (60%)

mixed grasses (40%).

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number GE 27-78
Date of Observation 6/14/78 Species Golden Eagle
Land Ownership: P S (BLM) Location: T 19N R 90W Sec. 4 (SE 13)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 90'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 2 y

Exposure SE

Elevation _____

Vegetative Type sage brush
(50%), mixed grasses (40%),
riparian (10%).

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mussap Nest Number GE 28-78
Date of Observation 6/15/78 Species Golden Eagle
Land Ownership: (P) S BLM Location: T 14N R 74W Sec. 14 (SE 21)

Description of Nest Site:

Nest Substrate Rock Knob
Height of Substrate 20'
Height of Nest Above Ground 20'
Active ☒ Inactive ☐
No. of Eggs or Young 1y*
Exposure ESE
Elevation _____
Vegetative Type mixed grasses

Remarks: * Young had fledged,
may have been more produced.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Muscop

Nest Number GE 29-1978

Date of Observation 6/1/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T21N R12W Sec. 19 (SW12)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 40'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SW

Elevation _____

Vegetative Type sagebrush,
mixed grasses.

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number GE30-1978
Date of Observation 6/22/78 Species Golden Eagle
Land Ownership: (P) S BLM Location: T30N R105W Sec. 21 (SW3)

Description of Nest Site:

Nest Substrate Dead Engelman Spruce

Height of Substrate 60'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure E, above

Elevation

Vegetative Type Riparian

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number GE 31-78

Date of Observation 6/22/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T 30N R 105W Sec. 30 (SW 30)

Description of Nest Site:

Nest Substrate Rock

Height of Substrate 70'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SW

Elevation _____

Vegetative Type Sagebrush,

riparian

Remarks:

graph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GE 32-78

Date of Observation 6/22/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T29N R 105W Sec. 18 (SW3)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SW

Elevation _____

Vegetative Type Riparian

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Miusap

Nest Number BE 33-78

Date of Observation 6/24/78

Species Golden Eagle

Land Ownership: P S BLM*

Location: T22N R109W Sec. 32 (SW13)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 55'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure BE

Elevation _____

Vegetative Type Sage brush,

Riparian

Remarks: * SEEDSKADEE N.W.R.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number GE 34-78

Date of Observation 6/24/78

Species GOLDEN Eagle

Land Ownership: (P) S ELM

Location: T22N R 109W Sec. 20 (SW13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 1x

Exposure E

Elevation

Vegetative Type Sagebrush

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GE 36-78

Date of Observation 6/23/78

Species Golden Eagle

Land Ownership: P S BLM*

Location: T21N R 109W Sec. 8 (SW13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 45'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure W

Elevation _____

Vegetative Type sagebrush,
riparian, broad leaved woodland

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number *GE 37-78*

Date of Observation 6/24/78

Species Golden Eagle

Land Ownership: (P) S ~~BLM~~

Location: T20N R108W Sec. 31 (SW13)

Description of Nest Site:

Nest Substrate *Quince*

Height of Substrate 60'

Height of Nest Above Ground 40'

Active ☒ InactiveNo. of Eggs or Young 2y

Exposure SW

Elevation

Vegetative Type sage brush,
mixed grasses

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number GE 38-78

Date of Observation 6/24/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T19N R 107W Sec. 9 (SW 13)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 60'

Height of Nest Above Ground 45'

Active ☒ Inactive ☐

No. of Eggs or Young 2y*

Exposure SW

Elevation _____

Vegetative Type sagebrush,
riparian, broad leaved
woodland.

Remarks: 1 young at nest,
a second immature
(1st year) was observed
flying nearby.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILGAR

Nest Number GE 39-78

Date of Observation 6/25/78

Species Golden Eagle

Land Ownership: P S ELM

Location: T16N R102W Sec. 30 (SW19)

Description of Nest Site:

Nest Substrate Pirrack

Height of Substrate 70'

Height of Nest Above Ground 65'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure WNW

Elevation _____

Vegetative Type Sagebrush

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number GE 41-78

Date of Observation 7/8/78

Species Golden Eagle

Land Ownership: P S BLM

Location: T14N R9W Sec. 36 (SE19)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 25'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure NW

Elevation _____

Vegetative Type sagebrush,

Riparian

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLER Nest Number GE 42-78
Date of Observation 7/9/78 Species Golden Eagle
Land Ownership: P S BLM Location: T 15N R 92W Sec. 21 (SW 20)

Description of Nest Site:

"Spire"
Nest Substrate Rock Knob

Height of Substrate 35'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure WSW

Elevation

Vegetative Type sage brush (60%)
mixed grasses (40%)

Remarks: Both young
flying. Nests on all
aspects of spire-active
WSW side. $\approx 1/2$ mile
N Blue Gap #10 well.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number GE 43-78
Date of Observation 7/10/78 Species GOLDEN Eagle
Land Ownership: P S (ELM) Location: T28N R 89W Sec. 35 (SE 9)

Description of Nest Site:

Nest Substrate Pinrock
Height of Substrate 30'
Height of Nest Above Ground 20'
Active ☒ Inactive ☐
No. of Eggs or Young 1y*
Exposure SE
Elevation _____
Vegetative Type Sagebrush,
mixed grass

Remarks: * Had been
ry acc. to Chris
yde, earlier in
season.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number GE 44-78

Date of Observation 7/17/78

Species Golden Eagle

Land Ownership: P (S) ELM

Location: T 30N R 92W Sec. 36 (SW15)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SSW

Elevation _____

Vegetative Type Sagebrush,
riparian

Remarks:

(Photograph.)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number GE40-78

Date of Observation 6/24/78

Species Golden Eagle

Land Ownership: (P) S BLM

Location: T22N R109W Sec. 29 (SW 13)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 10'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 1 y*

Exposure ESE

Elevation _____

Vegetative Type sage brush,
mixed grasses

Remarks: May have been
more than 1 fledged, as
young were flying.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number GF 45-78
Date of Observation 7/11/78 Species Golden Eagle
Land Ownership: P S BLM Location: T31N R 91W Sec. 32 15E

Description of Nest Site:

Nest Substrate Rock knob

Height of Substrate 25'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 14, 1 egg

Exposure NNW

Elevation _____

Vegetative Type sage brush
(85%), mixed grasses (15%)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP

Nest Number GE 46-78

Date of Observation 6/16/78

Species Golden Eagle

Land Ownership: P S BLM *

Location: T28N R. 110W Sec. 34 (SW 1/2)

Description of Nest Site:

Nest Substrate Rim Rock

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure WSW

Elevation

Vegetative Type Riparian

Sagebrush

Remarks: * SEEDSKADEE N.W.R.

** Young fledged, production
not checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP Nest Number GE47-78
Date of Observation 6/26/78 Species Golden Eagle
Land Ownership: P S BLM* Location: T23N R.10W Sec. 32 (SW12)

Description of Nest Site:

Nest Substrate Rock
Height of Substrate 40'
Height of Nest Above Ground 25'
Active ☒ * Inactive ☐
No. of Eggs or Young _____
Exposure Above, SE
Elevation _____
Vegetative Type Riparian,
Sagebrush

Remarks: * SEERKADDE N.W.R.

** Young fledged

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MUSAP

Nest Number GE 48-78

Date of Observation 6/24/78

Species GOLDEN EAGLE

Land Ownership: P S BLM*

Location: T 23N R 110W Sec. 34 (SW12)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure WSW

Elevation _____

Vegetative Type Mixed grasses,
sagebrush

Remarks: * SEEDSKADEE NWR.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number F1-78
Date of Observation 5/22/78 Species FERRUGINOUS HAWK
Land Ownership: (P) S BLM Location: T16N R73W Sec. 15 (SE 21)

Description of Nest Site:

Nest Substrate Rock Knob

Height of Substrate 15'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 4x

Exposure NNW

Elevation _____

Vegetative Type mixed grass

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number FZ-78
Date of Observation 5/23/78 Species Ferruginous Hawk
Land Ownership: P S BLM Location: T22N R80W Sec. 1 (SE14)

Description of Nest Site:

Nest Substrate Juniper

Height of Substrate 12'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure SE $\frac{1}{2}$ above

Elevation _____

Vegetative Type mixed grasses
(80%), sagebrush (20%)

Remarks: Either very small
young or eggs in nest, on
5/23/78. Recheck 6/15/78
showed 3y.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number F3-78

Date of Observation 5/23/78

Species FERRUGINOUS HAWK

Land Ownership: P S BLM

Location: T22N R 80W Sec. 14 (SE14)

Description of Nest Site:

Nest Substrate Rock Knob

Height of Substrate 8'

Height of Nest Above Ground 8'

Active ☒ Inactive ☐

No. of Eggs or Young 3y, 1e

Exposure WSW

Elevation _____

Vegetative Type mixed grasses

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number F4-78
Date of Observation 5/24/78 Species FERRUGINEOUS HAWK
Land Ownership: (P) S BLM Location: T22N R 77W Sec. 27 (SE 15)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'Height of Nest Above Ground 0'

Active ☒ * Inactive ☐

No. of Eggs or Young 2yExposure SE

Elevation _____

Vegetative Type Mixed GRASSES

Remarks: * Nest was abandoned 6/15/78, with no sign of young.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number *F5-78*

Date of Observation 5/24/78

Species FERRUGINOUS HAWK

Land Ownership: P S (BLM

Location: T20N R75W Sec. 8 (SE 15)

Description of Nest Site:

Nest Substrate *Ground*

Height of Substrate 0'

Height of Nest Above Ground 0Active ☒ InactiveNo. of Eggs or Young 2 eggs

Exposure WNW

Elevation

Vegetative Type mixed grasses

Remarks: * Recheck 6/15/78.

found 2 eggs in nest, no
adults around. Nest
Abandon -

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILSAP

Nest Number F6-78

Date of Observation 5/24/78

Species FERRUGINOUS HAWK

Land Ownership: (P) S BLM

Location: T21N R 78W Sec. 35 (SE 15)

Description of Nest Site:

Nest Substrate Rock knob

Height of Substrate 15'

Height of Nest Above Ground 15

Active ☒ Inactive

No. of Eggs or Young 3y*

Exposure W

Elevation

Vegetative Type mixed grasses

Remarks: * Four young
in nest, however 1 was
almost dead, undoubtedly
died later.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number F7-78
Date of Observation 5/25/78 Species Ferruginous Hawk
Land Ownership: P S (BLM) Location: T21N R 80W Sec. 18 (SE 15)

Description of Nest Site:

Nest Substrate Rock Knob

Height of Substrate 15'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure S

Elevation _____

Vegetative Type Sagebrush

Remarks: 2 Richardson's
Ground Squirrels in nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number F8-78
Date of Observation 5/25/78 Species FERRUGINOUS Hawk
Land Ownership: P S BLM Location: T25N R78W Sec. 17 (SE9)

Description of Nest Site:

Nest Substrate ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 1 egg

Exposure N

Elevation _____

Vegetative Type Some patch
sage brush, mixed grasses.

Remarks: Nest contained
one egg - was a abandoned
5/26/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP Nest Number F9-78
Date of Observation 5/25/78 Species FERRUGINOUS Hawk
Land Ownership: P S BLM Location: T25N R78W Sec. 6 (SE9)

Description of Nest Site:

Nest Substrate ground
Height of Substrate 0'
Height of Nest Above Ground 0'
Active ☒ Inactive ☐
No. of Eggs or Young
Exposure N
Elevation
Vegetative Type mixed grass

Remarks: Nest not checked
as no evidence of
young.

Abandon- 5/26/78-
predated (shells &
remains around nest).

May have been abandon prior to 5/26/78.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number F10-78
Date of Observation 5/25/78 Species FERRUGINOUS HAWK
Land Ownership: (P) S BLM Location: T26N R79W Sec. 36 (SE 9)

Description of Nest Site:

Nest Substrate GROUND
Height of Substrate 0'
Height of Nest Above Ground 0'
Active ☒ Inactive ☐
No. of Eggs or Young 2 eggs
Exposure WNW
Elevation _____
Vegetative Type mixed grass
small sage brush patches

Remarks: Eggs seen from
top of hill.

Nest abandoned
6/26/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Muisap

Nest Number F11-78

Date of Observation 5/25/78

Species FERRUGINOUS HAWK

Land Ownership: (P) S BLM

Location: T26N R77W Sec. 7 (SE9)

Description of Nest Site:

Nest Substrate ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SW

Elevation _____

Vegetative Type mixed grass

Remarks: On high hill
overlooking Little Medicine
Bow River

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number F12-78

Date of Observation 5/25/78

Species FERRUGINOUS Hawk

Land Ownership: P S (BLM)

Location: T26N R 77W Sec. 18 (SE 9)

Description of Nest Site:

Nest Substrate ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 1x

Exposure NNW

Elevation _____

Vegetative Type mixed
grasses

Remarks: Young in nest
in very poor condition.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number F13-78
Date of Observation 5/25/78 Species FERRUGINOUS Hawk
Land Ownership: P S BLM Location: T 26N R 76W Sec. 15 (SE9)

Description of Nest Site:

Nest Substrate Rock Knob
Height of Substrate 15'
Height of Nest Above Ground 15'
Active ☒ Inactive ☐
No. of Eggs or Young 3 eggs
Exposure SE
Elevation _____
Vegetative Type mixed grasses
rocky breaks

Remarks: Nest abandoned
probably due to placement
of CO₂ gun above nest
on hillside.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number F14-78
Date of Observation 5/25/78 Species FERRUGINOUS Hawk
Land Ownership: P S BLM Location: T 25N R 76W Sec. 33 (SE 9)

Description of Nest Site:

Nest Substrate rocky cut
Height of Substrate 2'
Height of Nest Above Ground 2'
Active ☒ Inactive ☐
No. of Eggs or Young 3 eggs
Exposure WNW
Elevation _____
Vegetative Type mixed grasses

Remarks: 1 egg out of nest,
broken. 1 pipped & chick
hatching.

7/10/78 - 2 young fledging

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number F15-78
Date of Observation 5/25/78 Species FERRUGINOUS Hawk
Land Ownership: P S BLM Location: T25N R 76W Sec. 19 (SE9)

Description of Nest Site:

Nest Substrate cutbank

Height of Substrate 15'

Height of Nest Above Ground 12'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure NW

Elevation

Vegetative Type mixed grass
(90%), riparian (5%),
sagebrush (2%).

Remarks: Good looking
nest, much w.w., adult
in area. Shell parts
below nest suggest
predation. Empty 5/26/78.
Abandoned

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number F16-78

Date of Observation 5/31/78

Species Ferruginous Hawk

Land Ownership: (P) S BLM

Location: T13N R73W Sec. 15 (SE28)

Description of Nest Site:

Nest Substrate Dead Snag

Height of Substrate 20'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure Open, West

Elevation _____

Vegetative Type mixed grass
riparian

Remarks: In an old eagle
(golden) nest.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP

Nest Number F17-78

Date of Observation 6/1/78

Species FERRUGINOUS HAWK

Land Ownership: P S BLM *

Location: T22N R110W Sec. 24 (SW 12)

Description of Nest Site:

Nest Substrate Clay Hill

Height of Substrate 20'

Height of Nest Above Ground 18'

Active ☒ ** Inactive ☐

No. of Eggs or Young 2 eggs

Exposure WNW

Elevation _____

Vegetative Type bare ground
(70%), sagebrush (30%)

Remarks: *SEEDSKADEE

N.W.R.

** Abandoned

6/15/78

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRAN MULLSAP

Nest Number F18-78

Date of Observation 6/2/78

Species Ferruginous Hawk

Land Ownership: (P) S ELM

Location: T18N R101W Sec 17 (SW 1/4)

Description of Nest Site:

Nest Substrate

Height of Substrate 10'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 3

Exposure NE

Elevation

Vegetative Type mixed grass,
juniper

Remarks: Observation

after improvement

♀ hit me - very
aggressive!

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number F19-78

Date of Observation 6/2/78

Species Ferruginous Hawk

Land Ownership: P S ELM

Location: T18N R10W Sec. 20 (SW19)

Description of Nest Site:

Nest Substrate Runrock

Height of Substrate 30'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure NW

Elevation _____

Vegetative Type Mixed Grass

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP Nest Number F20-78
Date of Observation 6/2/78 Species FERRUGINOUS HAWK
Land Ownership: P S BLM Location: T16N R102W Sec. 34 (SW19)

Description of Nest Site:

Nest Substrate Rock knob

Height of Substrate 20'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure NW

Elevation _____

Vegetative Type Mixed Grass

Remarks: Very defensive.

Dark ♂

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]Observer Brian Millsap

Nest Number *F21-78*

Date of Observation 6/2/78

Species *FERRUGINOUS HAWK*

Land Ownership: P S (BLM)

Location: T15N R102W Sec. 14 (SW19)

Description of Nest Site:

Nest Substrate *Rock K'nob*

Height of Substrate 20'

Height of Nest Above Ground / 8'

Active ☒ InactiveNo. of Eggs or Young 2yExposure NW

Elevation

Vegetative Type Sagebrush,
mixed grasses

Remarks: Production checked

6/3/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILSAP

Nest Number F22-78

Date of Observation 6/3/78

Species Ferruginous Hawk

Land Ownership: (P) S ELM

Location: T18N R103W Sec. 35 (SW19)

Description of Nest Site:

Nest Substrate GROUND

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure N

Elevation _____

Vegetative Type Mixed Grass
(60%), sagebrush (40%).

Remarks: Nest full ~35'

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F2B-78

Date of Observation 6/3/78

Species Ferruginous Hawk

Land Ownership: (P) S BLM

Location: T16N R.101W Sec. 17 (SW19)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 40'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure NNW

Elevation _____

Vegetative Type sagebrush,
mixed grasses

Remarks: ♀ hit me.
very aggressive.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number F24-78
Date of Observation 6/4/78 Species FERRUGINOUS HAWK
Land Ownership: P S BLM Location: T15N R102W Sec. 14 (SW19)

Description of Nest Site:

Nest Substrate Rocky Rim
Height of Substrate 20'
Height of Nest Above Ground 15'
Active ☒ Inactive ☐
No. of Eggs or Young 4y
Exposure NNW
Elevation _____
Vegetative Type sagebrush

Remarks: 3y, 1e on
above date. 4y on
7/1/78.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP Nest Number F 25-78
Date of Observation 6/12/78 Species FERRUGINOUS Hawk
Land Ownership: (P) S BLM Location: T21N R 89W Sec. 13 (SE 13)

Description of Nest Site:

Nest Substrate low rock rim

Height of Substrate 8'

Height of Nest Above Ground 8'

Active ☒ Inactive ☐

No. of Eggs or Young 2 eggs

Exposure E

Elevation _____

Vegetative Type sage brush

(60%), riparian (10%),
mixed grasses (30%)

Remarks: 1 egg broken &
destroyed, other whole
but cold. Adults in area
but not aggressive.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F 26-78

Date of Observation 6/13/78

Species Ferruginous Hawk

Land Ownership: P S (BLM)

Location: T 30N R 97W Sec. 25 (SW5)

Description of Nest Site:

Nest Substrate Rock projection

Height of Substrate 10'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 14

Exposure WSW

Elevation _____

Vegetative Type mixed grass
prairie

Observer: Brian Musap Nest Number F29-78
Date of Observation 6/13/78 Species Ferruginous Hawk
Land Ownership: P S (BLM) Location: T21N R. 94W Sec. 22 (SW10)

Nest Substrate Sagebrush
Height of Substrate 6'
Height of Nest Above Ground 6'
Active ☒* Inactive ☐
No. of Eggs or Young 1y
Exposure NE
Elevation _____
Vegetative Type Sagebrush,
mixed grasses

Remarks: * ~~St. Louis~~

2 young (dead), found.
below nest. On different
dates

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F28-78

Date of Observation 6/13/78

Species Ferruginous Hawk

Land Ownership: P S BLM

Location: T27N R 94W Sec. 27 (SW10)

Description of Nest Site:

Nest Substrate Sagebrush

Height of Substrate 6'

Height of Nest Above Ground 6'

Active ☒ Inactive ☐

No. of Eggs or Young 1 egg

Exposure NE

Elevation _____

Vegetative Type Sagebrush,
mixed grasses.

Remarks: * Abandoned, reason
unknown.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number F29-78
Date of Observation 6/13/78 Species Ferruginous Hawk (SW10)
Land Ownership: P S ELM Location: T27N R94W Sec. 27

Description of Nest Site:

Nest Substrate Sagebrush
Height of Substrate 6'
Height of Nest Above Ground 6'
Active ☒ Inactive ☐
No. of Eggs or Young 5 y
Exposure N (somewhat)
Elevation _____
Vegetative Type Sagebrush
pocket

Remarks: DARK ♂

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F30-78

Date of Observation 6/13/78

Species Ferruginous Hawk

Land Ownership: P S ELM

Location: T 27N R 95W Sec. 13 (SW10)

Description of Nest Site:

Nest Substrate Urtica Tailing

Height of Substrate 8'

Height of Nest Above Ground 8'

Active ☒ Inactive ☐

No. of Eggs or Young 24, 2e*

Exposure Open 360°, more to W

Elevation _____

Vegetative Type mixed grass,
sagebrush

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP

Nest Number *F31-78*

Date of Observation 6/14/78

Species FERRUGINOUS Hawk

Land Ownership: P S BLM

Location: T 20N R 90W Sec. 4 (SE 13)

Description of Nest Site:

Nest Substrate Utility pole

Height of Substrate 15'Height of Nest Above Ground 15'

Active ☒ Inactive

No. of Eggs or Young 15

Exposure Open, NE

Elevation

Vegetative Type sage brush/
mixed grass interspersed

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number F 32-78

Date of Observation 6/16/78

Species FERRUGINOUS Hawk

Land Ownership: (P) S BLM

Location: T 15N R 78W Sec. 6 (SE21)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure SE

Elevation _____

Vegetative Type mixed grasses

Remarks: Rocky hillside,
very flimsy nest, mostly small
sticks & horse dung.
1 R. Ground Squirrel in nest

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number F33-78

Date of Observation 6/16/78

Species FERRUGINOUS HAWK

Land Ownership: P S BLM

Location: T15N R77W Sec. 24 (SE 21)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 0

Exposure S

Elevation

Vegetative Type mixed grass

Remarks: Yolk & Shells in
cup of nest. Nest
abandoned - eggs predated.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLER Nest Number F34-78
Date of Observation 7/6/78 Species FERRUGINOUS HAWK
Land Ownership: (P) S BLM Location: T18N R92W Sec. 5 (SW 20)

Description of Nest Site:

Nest Substrate Low Rock ledge

Height of Substrate 2'

Height of Nest Above Ground 2'

Active ☒ Inactive ☐

No. of Eggs or Young 1 egg

Exposure N

Elevation _____

Vegetative Type sage brush
mixed grasses.

Remarks: Nest abandoned
parts of 1 egg found
scattered at base of
nest.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number F35-78

Date of Observation 8/7/78

Species FERRUGINOUS HAWK

Land Ownership: P S BLM

Location: T 17N R 92W Sec. 6 (SW 20)

Description of Nest Site:

Nest Substrate Clay knob

Height of Substrate 15'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure SW

Elevation _____

Vegetative Type Alluvial fan,
sage brush (30%), mixed
grasses (10%), bare soil
(60%)

Remarks: Four young flew
from nest area as I
approached. Both adults
present in area. ♂ Dark.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP Nest Number F36-78
Date of Observation 8/8/78 Species FERRUGINOUS HAWK
Land Ownership: P S (BLM) Location: T 15N R 92W Sec. 10 (SW 20)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 2y+?

Exposure WSW

Elevation _____

Vegetative Type mixed grasses
(90%), sagebrush (30%).

Remarks: Two young sitting
beside nest - both flying.
Adults not seen

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F37-78

Date of Observation 7/8/78

Species Ferruginous Hawk

Land Ownership: P S (BLM)

Location: T14N R 90W Sec. 18 (SW20)

Description of Nest Site:

Nest Substrate Juniper

Height of Substrate 10'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 1y*

Exposure Above, E

Elevation _____

Vegetative Type Sagebrush,

Juniper

Remarks: Young flying,
One observed in nest
tree.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number F38-78

Date of Observation 7/8/78

Species Ferruginous Hawk

Land Ownership: P S BLM

Location: T14N R91W Sec. 23 (S. 20)

Description of Nest Site:

Nest Substrate CUTBANK

Height of Substrate 40'

Height of Nest Above Ground 35'

Active ☒ Inactive ☐

No. of Eggs or Young 1 + *

Exposure NW

Elevation _____

Vegetative Type Sagebrush

Remarks: *Nest active
although young had
fledged. One observed
although there were
others in area.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number F39-78
Date of Observation 7/8/98 Species Ferruginous Hawk
Land Ownership: P S (BLM) Location: T13N R 91W Sec. 4 (SE25)

Description of Nest Site:

Nest Substrate Sagebrush

Height of Substrate 6'

Height of Nest Above Ground 6'

Active ☒ * Inactive ☐

No. of Eggs or Young 2 eggs

Exposure above i 180° SW

Elevation _____

Vegetative Type Sagebrush
draw

BUREAU OF LAND MANAGEMENT

4100000000 P. 91 W.

3. OF 39.78

Remarks: * Nest blew over,
spilled eggs out.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number F40-78

Date of Observation 7/8/78

Species FERRUGINEOUS HAWK

Land Ownership: P S (BLM)

Location: T16N R 92W Sec. 5 (SW20)

Description of Nest Site:

Nest Substrate ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure Open, W

Elevation

Vegetative Type mixed grasses

Remarks: * Adult killed -
feathers everywhere. Remains
of eggshells in and around nest.
One dark adult seen in area.
Productivity (potential) unknown

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Muesap Nest Number F41-78
Date of Observation 7/10/78 Species Ferruginous Hawk
Land Ownership: P S BLM Location: T28N R96W Sec. 4 (SW10)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 15'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 2+y*

Exposure NW

Elevation _____

Vegetative Type Sagebrush
(70%), mixed grass (30%)

Remarks: * At least 2 y
produced- located nest
post fledging.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Milsap Nest Number F42-78
Date of Observation 7/10/78 Species Ferruginous Hawk
Land Ownership: P S (BLM) Location: T28N R96W Sec. 9 (SW10)

Description of Nest Site:

Nest Substrate Clay hill

Height of Substrate 6'

Height of Nest Above Ground 6'

Active ☒ Inactive ☐

No. of Eggs or Young 2+y*

Exposure NW

Elevation _____

Vegetative Type Sagebrush,
mixed grass (< 30%).

Remarks: * Young previously
fledged. 2 observed.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number F43-78
Date of Observation 7/10/79 Species Ferruginous Hawk
Land Ownership: P (S) BLM Location: T28N R.97W Sec. 16 (SW10)

Description of Nest Site:

Nest Substrate clay knob

Height of Substrate 15'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 3+y*

Exposure NE

Elevation _____

Vegetative Type sagebrush

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
R. 97 W.
1:250,000 W.C.

Remarks: * 3 young
observed post fledging

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number F44-78

Date of Observation 7/10/78

Species Ferruginous Hawk

Land Ownership: P S (BLM)

Location: T29N R96W Sec. 28 (SW5)

Description of Nest Site:

Nest Substrate Rock knob

Height of Substrate 12'

Height of Nest Above Ground 12'

Active ☒ Inactive ☐

No. of Eggs or Young 2y*

Exposure SSW

Elevation _____

Vegetative Type Sagebrush,
mixed grasses

Remarks: * minimum
production, young
had fledged.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F45-78

Date of Observation 7/10/78

Species Ferruginous Hawk

Land Ownership: P S BLM

Location: T13N R90W Sec. 5 (SE25)

Description of Nest Site:

Nest Substrate Rock ridge

Height of Substrate 10'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 3y*

Exposure ESE

Elevation _____

Vegetative Type sagebrush

Remarks: * Nest has
been abandoned
with at least 3
small chicks.
Remains in & around
nest.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number F 46-78

Date of Observation 7/10/78

Species Ferruginous Hawk

Land Ownership: P S (BLM)

Location: T 13N R 9W Sec. 18 (SE 25)

Description of Nest Site:

Nest Substrate *probably rock rim

Height of Substrate _____

Height of Nest Above Ground _____

Active ☒ Inactive _____

No. of Eggs or Young 2y**

Exposure W

Elevation _____

Vegetative Type Sagebrush

Remarks: * ACTUAL NEST
Not found. All nests in area
w aspect. ** 2 young
observed with 2
adult ferruginous hawks
in this area.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number F 47-78
Date of Observation 7/12/78 Species Ferruginous Hawk
Land Ownership: P S (BLM) Location: T22N R 96W Sec. 28

Description of Nest Site:

Nest Substrate Man-made Shack

Height of Substrate 7'

Height of Nest Above Ground 7'

Active ☒ * Inactive ☐

No. of Eggs or Young 3y

Exposure Above

Elevation _____

Vegetative Type Sagebrush,
mixed grasses

Remarks: * Young destroyed
by unknown persons

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Milsap

Nest Number F 48-79

Date of Observation 7/7/79

Species Ferruginous Hawk

Land Ownership: P S ELM

Location: T14N R 91W Sec. 26 (SW15)

Description of Nest Site:

Nest Substrate ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 2 eggs?

Exposure WNW

Elevation _____

Vegetative Type sagebrush,
mixed grasses

Remarks: * Nest abandoned,
remains of eggs around
nest. 2 or more eggs
probably had been
present.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musar

Nest Number F49-78

Date of Observation 7/6/78

Species Ferruginous Hawk

Land Ownership: P S (BLM)

Location: T20N R93W Sec. 4 (SW15)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure SE

Elevation _____

Vegetative Type mixed grass,
sage brush

Remarks: * young flying-
observed 3 sitting
on crests of hills
in vicinity of nest.
Adult ♂ dark.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Munsap

Nest Number F50-78

Date of Observation 7/8/77

Species Ferruginous Hawk

Land Ownership: (P) S BLM

Location: T20N R 90W Sec. 7 (SE 13)

Description of Nest Site:

Nest Substrate Rock Knob

Height of Substrate 2'

Height of Nest Above Ground 2'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SW

Elevation _____

Vegetative Type Sagebrush,

mixed grasses

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mussap

Nest Number F 51-78

Date of Observation 6/1/78

Species Ferruginous Hawk

Land Ownership: (P) S BLM

Location: T 19N R 110W Sec. 7 (SW 12)

Description of Nest Site:

Nest Substrate clay hill

Height of Substrate 4'

Height of Nest Above Ground 4'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure NW

Elevation

Vegetative Type sagebrush

Remarks: * Abandoned-
nest appears fresh-
no production noted.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number F 52-78
Date of Observation 7/11/78 Species Ferruginous Hawk
Land Ownership: P (S) BLM Location: T 30N R 96W Sec. 16 (SW5)

Description of Nest Site:

Nest Substrate clay point

Height of Substrate 20'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 3y*

Exposure SSW

Elevation

Vegetative Type sagebrush

Remarks: * Young had
fledged - three observed.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number F53-78
Date of Observation 7/11/78 Species Ferruginous Hawk
Land Ownership: P S BLM Location: T30N R97W Sec. 24 (SWs)

Description of Nest Site:

Nest Substrate Rimrock
Height of Substrate 7'
Height of Nest Above Ground 7'
Active ☒ * Inactive ☐
No. of Eggs or Young 1y
Exposure SSW
Elevation _____
Vegetative Type sagebrush

Remarks: * Nest had fledged. Amount of white wash indicated that at least 1 young had fledged. I observed one ferr. hawk $\approx$ 1/4 mile S of nest which I judged to be an immature - possibly from this nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number F54-78
Date of Observation 7/11/78 Species Ferruginous Hawk
Land Ownership: P S (ELM) Location: T30N R. 96W Sec. 31 (SW5)

Description of Nest Site:

Nest Substrate ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ ^{*} Inactive ☐

No. of Eggs or Young 1 egg

Exposure WNW

Elevation _____

Vegetative Type sagebrush,
mixed grasses.

Remarks: * Nest abandoned,
remains of at least one
egg at base of small
nest (Peromyscus?) in
rocks below.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number RT-78

Date of Observation 5/22/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T17N R79W Sec. 4 (SE 21)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 35'

Active ☒ Inactive ☐

No. of Eggs or Young 3y*

Exposure WITHIN CANOPY

Elevation _____

Vegetative Type Riparian

Mixed GRASSES

Remarks: * Production checked

7/6/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number RT 2-78

Date of Observation 5/24/78 Species Red-tailed Hawk

Land Ownership: (P) S BLM Location: T20N R76W Sec. 7 (SE15)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type COTTONWOOD,
WOODLAND, MIXED GRASSES

Remarks: PRODUCTION UNKNOWN

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number RT 3-78

Date of Observation 5/24/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T 19 N R 77 W Sec. 2 (SE 15)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 100'

Height of Nest Above Ground 65

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure S

Elevation

Vegetative Type Broad leaved
woodland, mixed grasses

Remarks: PRODUCTION NOT
checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP

Nest Number RT 4 - 78

Date of Observation 5/26/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T21N R 83W Sec. 32 (SE 14)

Description of Nest Site:

Nest Substrate COTTON WOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure NW, open

Elevation

Vegetative Type Riparian,
mixed grass prairie, sage
brush

Remarks: Productivity Checked

7/10/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number RT 5-79
Date of Observation 5/31/79 Species Red-tailed Hawk
Land Ownership: P S BLM Location: T24N R 111W Sec. 30 (SW 13)

Description of Nest Site:

Nest Substrate COTTONWOOD
Height of Substrate 50'
Height of Nest Above Ground 50'
Active ☒ Inactive ☐
No. of Eggs or Young _____
Exposure E°, above
Elevation _____
Vegetative Type Riparian

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MUISAP

Nest Number RT 6-78

Date of Observation 6/1/78

Species Red-tailed Hawk

Land Ownership: P S BLM*

Location: T23N R110W Sec. 34 (SW12)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 55'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure Above

Elevation _____

Vegetative Type BROOKLEAF

WOODLAND

Remarks: * SEEDSKADEE N.W.R.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number RT 7-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: (P) S ELM

Location: T22N R109W Sec. 29 (SW13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 100'

Height of Nest Above Ground 80'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure Above

Elevation

Vegetative Type Broad leaved

Woodland, mixed grasses.

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number RT 8-78

Date of Observation 6/3/78

Species Red-tailed Hawk

Land Ownership: P S (BLM)

Location: T17N R102W Sec. 30 (SW19)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 100'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure W

Elevation _____

Vegetative Type Mixed Grass,

SAGE BRUSH

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number RT 9-78

Date of Observation 6/3/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T 18N R 103W Sec. 1 (SW19)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure NE

Elevation _____

Vegetative Type Mixed grasses

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number RT10-78
Date of Observation 6/3/78 Species Red-tailed Hawk
Land Ownership: P S (BLM) Location: T16N R105W Sec. 18 (SW1/4)

Description of Nest Site:

Nest Substrate Juniper

Height of Substrate 15'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SE, Above

Elevation _____

Vegetative Type Juniper /
Sagebrush

Remarks: On a power line
right of way.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number RT 11-78
Date of Observation 6/3/78 Species Red-tailed Hawk
Land Ownership: P (S) BLM Location: T 15N R 104W Sec. 29 (SW 18)

Description of Nest Site:

Nest Substrate Aspen
Height of Substrate 40'
Height of Nest Above Ground 40'
Active ☒ Inactive ☐
No. of Eggs or Young 1y
Exposure Above
Elevation _____
Vegetative Type Aspen /
Sagebrush.

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number RT12-78

Date of Observation 6/5/78

Species Red-tailed Hawk

Land Ownership: P S BLM

Location: T20N R102W Sec.20 (SW14)

Description of Nest Site:

Nest Substrate Runrock

Height of Substrate 50'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure W

Elevation _____

Vegetative Type Sagebrush

Remarks

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MINSAP Nest Number RT 13-78
Date of Observation 6/14/78 Species Red-tailed Hawk
Land Ownership: P (S) ELM Location: T 19N R 89W Sec. 16 (SE 13)

Description of Nest Site:

Nest Substrate Aspen

Height of Substrate 40'

Height of Nest Above Ground 38'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure Above

Elevation

Vegetative Type Aspen (20%)
sagebrush (70%), mixed
grasses (10%).

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MUSAP Nest Number RT 15-78
Date of Observation 6/15/78 Species Red-tailed Hawk
Land Ownership: P S BLM Location: T20N R 82W Sec. 10 (SE 14)

Description of Nest Site:

Nest Substrate Hogback
Height of Substrate 60'
Height of Nest Above Ground 55'
Active ☒ Inactive ☐
No. of Eggs or Young ?
Exposure S

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MUSAP Nest Number RT 14-78
Date of Observation 6/19/78 Species Red-tailed Hawk
Land Ownership: (P) S BLM Location: T 19N R 89W Sec. 7 (SE 13)

Description of Nest Site:

Nest Substrate Rock
Height of Substrate 40'
Height of Nest Above Ground 30'
Active ☒ Inactive ☐
No. of Eggs or Young 2x
Exposure S
Elevation _____
Vegetative Type sage brush,
mixed grasses.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MINSAD Nest Number RT 16-78
Date of Observation 6/15/78 Species Red-tailed Hawk
Land Ownership: (P) S BLM Location: T21N R81W Sec. 27 (SE 14)

Description of Nest Site:

Nest Substrate Hogback

Height of Substrate 30'

Height of Nest Above Ground 18'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure WSW

Elevation _____

Vegetative Type sagebrush
(40%), mixed grasses (60%).

Remarks: In cavity with
slight stick nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number RT 17-78

Date of Observation 6/21/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Land Ownership: (P) S BLM Location: T25N R112W Sec. 5 (SW7)

Description of Nest Site:

Nest Substrate *Rimrock*

Height of Substrate 30'Height of Nest Above Ground 20'Active ☒ InactiveNo. of Eggs or Young 1yExposure E

Elevation

Vegetative Type Sagebrush

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILESAP

Nest Number RT 18-78

Date of Observation 6/21/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T26N R112W Sec. 18 (SW 7)

Description of Nest Site:

Nest Substrate Limrock

Height of Substrate 30'

Height of Nest Above Ground 28'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure E

Elevation _____

Vegetative Type sagebrush

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number RT 19-78

Date of Observation 6/22/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T 30N R 105W Sec. 21 (SW 3)

Description of Nest Site;Nest Substrate *Limber pine*Height of Substrate 40'

Height of Nest Above Ground, 30

Active ☒ InactiveNo. of Eggs or Young 3y

Exposure $W^{\circ} E^{\circ}$

Elevation

Vegetative Type Ciparian

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Muirap Nest Number RT 20-78
Date of Observation 6/22/78 Species Red-tailed Hawk
Land Ownership: (P) S BLM Location: T 30N R 105W Sec. 17 (SW3)

Description of Nest Site:

Nest Substrate Engelman Spruce

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure S°

Elevation _____

Vegetative Type sagebrush,
riparian

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number RT 21-78
Date of Observation 6/24/78 Species RED-TAILED HAWK
Land Ownership: P S ELM * Location: T23N R111W Sec. 26 (SW12)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure Above

Elevation _____

Vegetative Type Riparian

Mixed GRASS

Remarks: * SEEDSKADEE
NATIONAL W. R.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mussap

Nest Number RT22-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: P S BLM

Location: T 20N R 109W Sec. 26 (SW 13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 40'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure Above

Elevation _____

Vegetative Type Sagebrush,

BROAD LEAVED WOODLAND,

Riparian

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number RT 23-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: P S BLM

Location: T 20N R 18W Sec. 6 (SW 13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 30'

Height of Nest Above Ground 26'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure Above

Elevation _____

Vegetative Type Sage brush
mixed grasses.

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]Observer Brian Millsap

Nest Number RT 24-78

Date of Observation 6/25/78

Species *Red-tailed Hawk*

Land Ownership: P S (BLM)

Location: T 16N R 102W Sec. 32 (SW 19)

Description of Nest Site:

Nest Substrate ^{Low}
Rock Outcrop

Height of Substrate 15'Height of Nest Above Ground 10Active ☒ InactiveNo. of Eggs or Young 4v

Exposure WSW

Elevation

Vegetative Type Sagebrush,
Mixed grasses

Remarks: Young fledgling.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Muscar

Nest Number RT 26-78

Date of Observation 7/11/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T 28N R 9W Sec. 10 (SE1)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 80'

Height of Nest Above Ground 6'

Active ☒ Inactive ☐

No. of Eggs or Young 1y

Exposure SSE

Elevation _____

Vegetative Type Sagebrush,
mixed grasses.

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number RT 29-78
Date of Observation 6/24/78 Species Red-tailed Hawk
Land Ownership: P S BLM * Location: T 23N R 111W Sec. 15 (SW 12)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type Riparian,
Mixed Grass

Remarks: * SEEDSKADEE
NWR.

** PRODUCTION
Not checked

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number ~~REDA~~ RT28-78
Date of Observation 6/16/78 Species RED-TAILED HAWK
Land Ownership: P S BLM* Location: T23N R111W Sec. 25 (SW12)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type BROAD LEAVED
WOODLAND, Mixed GRASSES

Remarks: * SEEKADIE NAT. W.R.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number RT 29-78
Date of Observation 6/16/78 Species Red-tailed Hawk
Land Ownership: P S BLM** Location: T23N R11W Sec. 36 (SW12)

Description of Nest Site:

Nest Substrate COTONWOOD
Height of Substrate 70'
Height of Nest Above Ground 60'
Active ☒ ** Inactive ☐
No. of Eggs or Young
Exposure Above
Elevation
Vegetative Type BROAD LEAVED
Woodland

Remarks: * SEEDSKADEE N.W.R.

** PRODUCTION NOT CHECKED.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number RT 30-78
Date of Observation 6/16/78 Species Red-Tailed Hawk
Land Ownership: P S BLM* Location: T23N R110W Sec. 31 (SW12)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 90'

Height of Nest Above Ground 80'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type Broad Leaved

Woodland, Riparian

Remarks: * SEEDSKADEE N.W.R.

** PRODUCTION NOT CHECKED

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MINSAP

Nest Number RT2-78

Date of Observation 6/24/78

Species Red-Tailed Hawk

Land Ownership: P S BLM*

Location: TZEN R 110W Sec. 3 (SW12)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure Above

Elevation _____

Vegetative Type Broad leaved

Woodland, Mixed GRASSES.

Remarks: * SEEKADIE N.W.R.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN ALLSAP

Nest Number RT 32-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: P S BLM*

Location: T22N R110W Sec. 2 (SW1/2)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 50'

Height of Nest Above Ground 20'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type Mixed Grasses

Riparian

Remarks: * SEEDSKADEE NWR.

** Production Unknown

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer: Brian Musap

Nest Number RT 33-78

Date of Observation 6/24/78

Species RED-TAILED HAWK

Land Ownership: (P) S BLM

Location: T22N R 109W Sec. 29 (SW13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ✓* Inactive

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type BROAD LEAVED

WOODLAND, Mixed grasses

Remarks: * Production not checked

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number RT 34-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T21N R109W Sec. 5 (SW13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure Above

Elevation _____

Vegetative Type Mixed grasses,
Sagebrush, scattered cottonwoods

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number RT 35-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: P S BLM*

Location: T21N R 109W Sec. 8 (SW13)

Description of Nest Site:

Nest Substrate Bottomwood

Height of Substrate 60'

Height of Nest Above Ground 55'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure Above

Elevation

Vegetative Type Mixed grass,
Scattered cottonwoods

Remarks: * SEASKADEE N.W.R.

** Production not checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number RT 36-78

Date of Observation 6/24/78

Species Red-tailed Hawk

Land Ownership: (P) S BLM

Location: T 19N R 108W Sec. 6 (SW13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 60'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure Above

Elevation _____

Vegetative Type BROAD LEAVED
WOODLAND

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number RT 37-78

Date of Observation 6/1/78

Species Red-tailed Hawk

Land Ownership: P S BLM

Location: T 19N R 110W Sec. 34 (SW12)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 40'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 3x

Exposure SSW

Elevation _____

Vegetative Type sagebrush

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number RT 38-78
Date of Observation 7/10/78 Species Red-tailed Hawk
Land Ownership: (P) S BLM Location: T 91W R 13N Sec. 33 (SE25)
Description of Nest Site:

Nest Substrate Dead snag
Height of Substrate 40'
Height of Nest Above Ground 20'
Active ☒ Inactive ☐
No. of Eggs or Young 24
Exposure Open
Elevation _____
Vegetative Type Hay meadow

Remarks:

(Photograph.)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number RT 39-78
Date of Observation 6/14/78 Species Red-tailed Hawk
Land Ownership: (P) S BLM Location: T21N R119W Sec. 2 (SW11)

Description of Nest Site:

Nest Substrate limrock

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 4

Exposure S

Elevation _____

Vegetative Type sagebrush

mixed grass

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]Observer Brian Miesap

Nest Number RT40-78

Date of Observation 6/14/78

Species Red-tailed Hawk

Land Ownership: P S BLM

Location: T21N R 119W Sec. 2 (SW 11)

Description of Nest Site:

Nest Substrate Low Rock ledge

Height of Substrate 12'

Height of Nest Above Ground 10'

Active ☒ Inactive

No. of Eggs or Young 3yExposure SE

Elevation

Vegetative Type Sagebrush

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP

Nest Number S1-78

Date of Observation 5/23/78

Species Swainson's Hawk

Land Ownership: (P) S ELM

Location: T23N R 79W Sec. 35 (SE14)

Description of Nest Site:

Nest Substrate JUNIPER

Height of Substrate 10'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 2 eggs

Exposure ESE

Elevation _____

Vegetative Type mixed grass
prairie

Remarks: Nest abandon -
6/15/78. Possibly Due to
previous disturbance by
myself on above date. Nest
placed in old Ferruginous
Hawk nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number 52-78
Date of Observation 5/25/78 Species Swainson's Hawk
Land Ownership: (P) S BLM Location: T22N R78W Sec. 28 (SE 15)

Description of Nest Site:

Nest Substrate Cottonwood
Height of Substrate 100'
Height of Nest Above Ground 3'
Active ☒ Inactive ☐
No. of Eggs* or Young 2
Exposure Above
Elevation _____
Vegetative Type Riparian

Remarks: ♀ incubating eggs,
production not checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Munsap

Nest Number S 3-78

Date of Observation 6/24/78

Species Swainson's Hawk

Land Ownership: (P) S BLM

Location: T22N R109W Sec. 29 (SW13)

Description of Nest Site:

Nest Substrate Cottonwood Snags

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 0

Exposure Open

Elevation

Vegetative Type Burn

* Production not checked

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number 55-78
Date of Observation 7/6/78 Species SWANSON'S HAWK
Land Ownership: (P) S BLM Location: T14N R72W Sec. 27 (SE22)

Description of Nest Site:

Nest Substrate Willow
Height of Substrate 25'
Height of Nest Above Ground 20'
Active ☒ Inactive ☐
No. of Eggs or Young 3y
Exposure N
Elevation _____
Vegetative Type Mixed grass

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number 56-78

Date of Observation 6/24/79 Species Swainson's Hawk

Land Ownership: P (S) BLM Location: T20N R. 109W Sec. 16 (SW13)

Description of Nest Site:

Nest Substrate Dead Snag

Height of Substrate 50'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure Open

Elevation

Vegetative Type Burn Area

Remarks: * Production not
checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN Mulsap

Nest Number H1-78

Date of Observation 6/5/78

Species MARSH HAWK

Land Ownership: P S (ELM)

Location: T2IN R.102W Sec. 34 (SW1/4)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure NE

Elevation _____

Vegetative Type Rye grass,
Cyperaceae, Juncaceae, &
Sagebrush

Remarks: In side of heavily
vegetated stream bottom

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number H2-78

Date of Observation 6/21/78

Species MARSH HAWK

Land Ownership: (P) S BLM

Location: T23N R113W Sec. 12 (SW12)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 3 eggs

Exposure above, SW

Elevation

Vegetative Type Riparian,

(Carex spp.)

Remarks: Adults not aggressive. ♀ returned to nest after we left.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number H3-78

Date of Observation 7/6/78

Species MARSH HAWK

Land Ownership: P S BLM

Location: T20N R91W Sec. 19 (SE13)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 8"

Active ☒ Inactive ☐

No. of Eggs or Young 5y

Exposure Above

Elevation _____

Vegetative Type Sagebrush,

Mixed Grasses

Remarks: 3 ♀'s, 2 ♂'s

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILSAP Nest Number H4-78
Date of Observation 7/8/78 Species Marsh Hawk
Land Ownership: (P) S BLM Location: T 13N R 91W Sec. 4 (~~5~~25)

Description of Nest Site:

Nest Substrate Ground
Height of Substrate 0'
Height of Nest Above Ground 4"
Active ☒ * Inactive ☐
No. of Eggs or Young 5 eggs*
Exposure Above
Elevation _____
Vegetative Type Sagebrush,
Riparian

U OF LAND MANAGEMENT

R. 91 W

H4-79

Remarks: * Nest had been
flooded, eggs found
scattered & broken around
nest. look like 5 of them?

(photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number 54-78

Date of Observation 7/6/78

Species Swainson's Hawk

Land Ownership: P S BLM

Location: T 13N R 72W Sec. 3 (SE28)

Description of Nest Site:

Nest Substrate LIMBER Pine

Height of Substrate 10'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure Open

Elevation _____

Vegetative Type mixed grass/
conifer association

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP

Nest Number H5-78

Date of Observation 7/9/78

Species MARSH HAWK

Land Ownership: P S BLM

Location: T19N R92W Sec. 2 (SW13)

Description of Nest Site:

Nest Substrate Ground

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure Above

Elevation _____

Vegetative Type Sage brush
(80%), mixed grasses (20%)

Rye grasses conspicuous

1

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLAR

Nest Number M1-78

Date of Observation 6/24/78

Species Richardson's Merulin

Land Ownership: P S BLM*

Location: T22N R110W Sec. 5 (SW12)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate **

Height of Nest Above Ground **

Active** Inactive

No. of Eggs or Young

Exposure

Elevation

Vegetative Type Mixed GRASS

Scattered COTTONWOODS

Remarks: * SEEDSKADEE N.W.R.

** ACTUAL NEST NOT LOCATED.

Adults DEFENSIVE OF AREA

LOCATED ON MAP. SEVERAL OLD
MADE NESTS IN AREA, ALL
SUITABLE.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number M2-78

Date of Observation 6/24/78

Species Merlin (Richardson's)

Land Ownership: (P) S BLM

Location: T22N R. 109W Sec. 29 (SW13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate * _____

Height of Nest Above Ground _____

Active ☒ Inactive _____

No. of Eggs or Young _____

Exposure _____

Elevation _____

Vegetative Type SCATTERED
COTTONWOODS, Mixed grasses

Remarks: * ACTUAL NEST
NOT FOUND.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number M 3-78

Date of Observation 6/24/78

Species Richardson's Merlin

Land Ownership: (P) S BLM

Location: T21N R109W Sec. 5 (SW13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate *

Height of Nest Above Ground

Active ☒ Inactive

No. of Eggs or Young

Exposure

Elevation

Vegetative Type Scattered
COTTONWOOD, Mixed GRASSES.

Remarks: * ACTUAL NEST
NOT FOUND.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number K1-78

Date of Observation 5/25/78 Species AMERICAN KESTREL

Land Ownership: (P) S BLM . Location: T22N R78W Sec. 29 (SE 15)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 100'

Height of Nest Above Ground 50'

Active ☒ Inactive

No. of Eggs or (Young)*

Exposure W

Elevation

Vegetative Type Riparian (90%)
mixed grasses (10%)

Remarks: * Not observed, but heard inside cavity after ♂ flew in with food.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP

Nest Number K2-78

Date of Observation 6/16/78

Species AMERICAN KESTREL

Land Ownership: P S BLM*

Location: T23N R11W Sec. 31 (SW12)

Description of Nest Site:

Nest Substrate DEAD SWAG

Height of Substrate 60'

Height of Nest Above Ground 25'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure NE

Elevation

Vegetative Type sagebrush,

RIPARIAN

Remarks: * SEESKADEE NWR.

** PRODUCTION NOT CHECKED

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MUSAP

Nest Number K3-78

Date of Observation 6/1/78

Species AMERICAN KESTREL

Land Ownership: P S BLM *

Location: T23N R110W Sec. 32 (SW1/2)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 30'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 2+

Exposure NE

Elevation _____

Vegetative Type BROAD LEAVED

Woodland, Mixed GRASSES

Remarks: * SEEDSKADEE N.W.R.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number K4-78
Date of Observation 6/13/78 Species American Kestrel
Land Ownership: P S BLM Location: T31N R96W Sec. 11 (SW5)

Description of Nest Site:

Nest Substrate Rimrock
Height of Substrate 40'
Height of Nest Above Ground 10'
Active ☒ Inactive ☐
No. of Eggs or Young 2+y*
Exposure SSW
Elevation _____
Vegetative Type Sagebrush,
scattered conifers

Remarks: * MAY have
been more young
in cavity.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number K5-78

Date of Observation 6/22/78

Species American Kestrel

Land Ownership: (P) S ELM

Location: T24N R105W Sec. 19 (SW3)

Description of Nest Site:

Nest Substrate Soil Bank

Height of Substrate 6'

Height of Nest Above Ground 4'

Active ☒ Inactive ☐

No. of Eggs or Young 5y

Exposure SE

Elevation _____

Vegetative Type riparian

Remarks: Nest in cavity 4'
above water level.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Baran Millsap Nest Number K6-78
Date of Observation 7/9/78 Species American Kestrel
Land Ownership: P S BLM Location: T15N R92W Sec. 21 (SW20)

Description of Nest Site:

Nest Substrate Rock outcrop

Height of Substrate 25'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure SE

Elevation

Vegetative Type sage brush

(80%) mixed grasses (20%)

Remarks: ♀ Defensive,
actual nest not examined.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number K7-78

Date of Observation 6/16/78 Species AMERICAN KESTREL

Land Ownership: P S BLM* Location: T23N R11W Sec. 23 (SW12)

Description of Nest Site:

Nest Substrate COTONWOOD

Height of Substrate 40'

Height of Nest Above Ground 25'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure SE

Elevation

Vegetative Type BROAD LEAVED

WOODLAND, Riparian, Mixed GRASSES

Remarks: * SEEDSKADE N.W.R.

** PRODUCTION NOT CHECKED.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP Nest Number K 8-78
Date of Observation 6/24/78 Species AMERICAN KESTREL
Land Ownership: P S BLM* Location: TZZN R. 110W Sec. 2 (SW12)

Description of Nest Site:

Nest Substrate Dead SNAG

Height of Substrate 100'

Height of Nest Above Ground 60'

Active ☒ ** Inactive ☐

No. of Eggs or Young

Exposure SW

Elevation

Vegetative Type Mixed GRASS

Remarks: * SEEDSKADEE N.W.R.

** PRODUCTION UNKNOWN

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number K9-78

Date of Observation 6/24/78

Species American Kestrel

Land Ownership: (P) S BLM

Location: T 21N R 109W Sec. 5 (SW13)

Description of Nest Site:

Nest Substrate Dead snag

Height of Substrate 20'

Height of Nest Above Ground 15'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure NW

Elevation

Vegetative Type sagebrush
mixed grass

Remarks: * Production
unknown

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number K 10-78

Date of Observation 6/24/78

Species *American Kestrel*

Land Ownership: P S BLM

Location: T21N R 109W Sec. 26 (SW13)

Description of Nest Site:

Nest Substrate Dead snag

Height of Substrate 12Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure SW

Elevation

Vegetative Type Riparian

Remarks: * Production not checked.

(Photograph)

(Photograph.)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number K12-78
Date of Observation 6/24/78 Species American Kestrel
Land Ownership: B S BLM Location: T20N R. 109W Sec. 26 (SW 13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate *

Height of Nest Above Ground

Active ☐ Inactive ☐

No. of Eggs or Young

Exposure

Elevation

Vegetative Type Mixed grass,
BROAD LEAVED WOODLAND

Remarks: * ACTUAL NEST
NOT OBSERVED

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Bruce Mulsap

Nest Number K13-78

Date of Observation 6/24/78

Species American Kestrel

Land Ownership: P S BLM

Location: T20N R109W Sec. 26 (SW13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 40'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure SW

Elevation

Vegetative Type BUDRO LEAVED

WOODLAND, mixed grasses

Remarks:

* Production not
checked

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number K 18-78

Date of Observation 6/24/78

Species American Kestrel

Land Ownership: (P) S ELM

Location: T19N R108W Sec. 25 (SW13)

Description of Nest Site:

Nest Substrate Limrock

Height of Substrate 70'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 3+y*

Exposure SW

Elevation _____

Vegetative Type Riparian

Remarks: * At least 3 y
in cavity in cliff face.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Milnes Nest Number P1-78
Date of Observation 5/26/78 Species PRAIRIE FALCON
Land Ownership: P S BLM Location: T22N R 79W Sec. 2 (SE14)

Description of Nest Site:

Nest Substrate Rimrock butte top

Height of Substrate 75'

Height of Nest Above Ground 70'

Active ☒ Inactive ☐

No. of Eggs or Young 5y

Exposure SSW

Elevation _____

Vegetative Type mixed grasses
sagebrush

Remarks: Production checked
7/7/78.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulgar

Nest Number P2-78

Date of Observation 5/25/78

Species Pearlie Falcon

Land Ownership: (P) S BLM

Location: T21N R 98W Sec. 15 (SE15)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 30'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure SSW

Elevation

Vegetative Type mixed grasses

Remarks: landowner
mentioned eyrie regularly
raided by falconers
in past years

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number P3-78

Date of Observation 5/26/78

Species PRAIRIE FALCON

Land Ownership: (P) S BLM

Location: T 21N R 78W Sec. 35 (SE 15)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 50'

Height of Nest Above Ground 35'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure ESE

Elevation

Vegetative Type mixed grasses,
sagebrush

Remarks: * Production
not checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number PA-78
Date of Observation 5/26/79 Species PRAIRIE FALCON
Land Ownership: P S BLM Location: T21N R79W Sec. 34 (SE 15)

Description of Nest Site:

Nest Substrate Runrock
Height of Substrate 70'
Height of Nest Above Ground 35'
Active ☒ Inactive ☐
No. of Eggs or Young _____
Exposure S
Elevation _____
Vegetative Type mixed grasses
sagebrush

Remarks: * Assumed active
by activity of adults -
eyrie unclimbed
Jim Brawley suggests
this eyrie may be located
at 20N 79W Sec. 3.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap Nest Number P5-78
Date of Observation 5/26/78 Species PRAIRIE FALCON
Land Ownership: (P) S BLM Location: T2N R7W Sec. 33 (SE 15)

Description of Nest Site:

Nest Substrate Rock

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure S

Elevation

Vegetative Type mixed grass,
sagebrush

Remarks: * Nest not
checked for production,
but appears active -
adults aggressive.
Kim Brawley determined
fledging of 2 young -

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Malsap Nest Number P6-78
Date of Observation 5/25/78 Species Prairie Falcon
Land Ownership: (P) S ELM Location: T21N R78W Sec. 31 (SE15)

Description of Nest Site:

Nest Substrate Limrock

Height of Substrate 60'

Height of Nest Above Ground 45'

Active ✓ Inactive

No. of Eggs or Young 4x

Exposure SSE

Elevation

Vegetative Type sagebrush,
mixed grass.

Remarks:

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP

Nest Number P 7-78

Date of Observation 6/2/78

Species PRAIRIE FALCON (SW 19)

Land Ownership: (P) S BLM

Location: T18N R103W Sec. 25

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 80'

Height of Nest Above Ground 75'

Active ☒ Inactive ☐

No. of Eggs or Young 5y

Exposure ESE

Elevation _____

Vegetative Type Mixed GRASS,

SAGE BRUSH, Juniper

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number P8-78

Date of Observation 6/3/78

Species PRAIRIE FALCON

Land Ownership: P S BLM

Location: T18N R101W Sec. 20 (SW19)

Description of Nest Site:

Nest Substrate Runrock

Height of Substrate 60'

Height of Nest Above Ground 55'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure SE

Elevation

Vegetative Type Mixed grass
(60%), Sagebrush (40%)

Remarks: * Probably young,
though not checked

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulvaney Nest Number P9-78

Date of Observation 5/26/78 Species Prairie Falcon

Land Ownership: (P) S BLM Location: T22N R 91W Sec. 5 (SE14)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young _____

Exposure SSW

Elevation _____

Vegetative Type Sagebrush,
mixed grasses.

Remarks: * Production
not checked

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number P10-78
Date of Observation 6/2/78 Species PRAIRIE FALCON
Land Ownership: (P) S BLM Location: T17N R102W Sec. 11 (SW 19)

Description of Nest Site:

Nest Substrate Bumrock

Height of Substrate 100'

Height of Nest Above Ground 90'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure W

Elevation

Vegetative Type Sagebrush
mixed grasses

Remarks: * PRODUCTION
Unknown

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mingsap Nest Number P11-78
Date of Observation 6/3/78 Species PRAIRIE FALCON
Land Ownership: P S BLM Location: T12N R10W Sec. 30 (SW19)

Description of Nest Site:

Nest Substrate Pine rock
Height of Substrate 60'
Height of Nest Above Ground 50'
Active ☒ Inactive ☐
No. of Eggs or Young 4y
Exposure SW
Elevation _____
Vegetative Type Sagebrush (90%)
Mixed grass (10%)

Remarks:

[for field notebook (looseleaf)]

Observer *Brian Millsap*

Nest Number *712-78*

Date of Observation 6/3/78

Species PRAIRIE FALCON

Land Ownership: (P) S BLM

Location: T17N R103W Sec. 1 (SW19)

Description of Nest Site:

Nest Substrate Rock

Height of Substrate 60'

Height of Nest Above Ground, 50'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure *NW*

Elevation

Vegetative Type Sagebrush

Remarks: * Young not seen

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Minsar

Nest Number P13-78

Date of Observation 6/4/78

Species Prairie Falcon

Land Ownership: F S BIM

Location: T 15N R 100W Sec. 4 (SW 19)

Description of Nest Site:

Nest Substrate Binrock

Height of Substrate 90'

Height of Nest Above Ground 80'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure SSW

Elevation

Vegetative Type sagebrush,
scattered conifer & aspen.

Remarks: * Production
not checked.

An immature Peregrine
Falcon was observed being
chased by both prairies
along the cliff face at
this site on this date.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number P14-78

Date of Observation 6/13/78

Species Prairie Falcon

Land Ownership: P S BLM

Location: T31N R96W Sec. 11 (SW5)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 40'

Height of Nest Above Ground 35'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure SSW

Elevation

Vegetative Type Sagebrush,
scattered conifers

Remarks: * Production
not checked.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULSAP

Nest Number P15-78

Date of Observation 6/14/78

Species PRAIRIE Falcon

Land Ownership: (P) S BLM

Location: T 19N R 89W Sec. 17 (SE13)

Description of Nest Site:

Nest Substrate Runrock

Height of Substrate 45'

Height of Nest Above Ground 40'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure 5

Elevation _____

Vegetative Type sage brush (20%)

mixed grasses (20%), riparian
(10%).

Remarks: Productivity checked
7/10/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number P16-78
Date of Observation 6/14/78 Species PRAIRIE Falcon
Land Ownership: (P) S BLM Location: T19N R90W Sec. 9 (SE 13)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure SE

Elevation _____

Vegetative Type sage brush (70%)

mixed grasses (20%),
riparian (10%)

Remarks: Productivity checked
7/10/78

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLAP Nest Number P17-78
Date of Observation 6/22/78 Species Prairie Falcon
Land Ownership: (P) S BLM Location: T29N R105W Sec. 17(SW13)

Description of Nest Site:

Nest Substrate Limrock
Height of Substrate 30'
Height of Nest Above Ground 35'
Active ☒ Inactive ☐
No. of Eggs or Young 4y
Exposure SSE
Elevation _____
Vegetative Type Riparian
sagebrush

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap Nest Number P18-78
Date of Observation 6/22/78 Species PRAIRIE FALLON
Land Ownership: (F) S BLM Location: T2N R.105W Sec. 19 (SW3)

Description of Nest Site:

Nest Substrate Rimrock
Height of Substrate 20'
Height of Nest Above Ground 17'
Active ☒ Inactive ☐
No. of Eggs or Young 4
Exposure SW
Elevation _____
Vegetative Type Sage brush,
riparian

Remarks:

(photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musap

Nest Number P 19-79

Date of Observation 6/24/79

Species Prairie Falcon

Land Ownership: P S BLM

Location: T 21N R 109W Sec. 36 (SW12)

Description of Nest Site:

Nest Substrate Amrock

Height of Substrate 30'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SE

Elevation _____

Vegetative Type Riparian

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number *P20-78*

Date of Observation 6/24/78

Species Prairie Falcon

Land Ownership: P (S) BLM

Location: T 19N R 108W Sec. 22 (SW 13)

Description of Nest Site:

Nest Substrate *Kimrock*Height of Substrate 60'

Height of Nest Above Ground 50

Active ☒ Inactive

No. of Eggs or Young 5yExposure SLW

Elevation

Vegetative Type Sagebrush

Remarks: Young fledging.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number P21-78
Date of Observation 7/6/78 Species PRAIRIE FALCON
Land Ownership: P S BLM Location: T 17N R 92W Sec. 6 (SW20)

Description of Nest Site:

Nest Substrate Clay face

Height of Substrate 10'

Height of Nest Above Ground 5'

Active ☒ Inactive ☐

No. of Eggs or Young 5y

Exposure ESE

Elevation _____

Vegetative Type sagebrush

(30%), mixed grasses (40%),
bare ground (30%)

Remarks: Nest in old eagle
nest - young fledging at
this date.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Bryan Millsap Nest Number P22-78
Date of Observation 6/7/78 Species PRAIRIE FALCON
Land Ownership: P S (BLM) Location: T15N R92W Sec. 25 (SW 20)

Description of Nest Site:

Nest Substrate Rimrock

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure S

Elevation _____

Vegetative Type Rye grasses
(40%), Juniper (40%),
sagebrush (20%)

Remarks: Young fledging

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number P23-78
Date of Observation 7/9/78 Species PRAIRIE FALCON
Land Ownership: P S (BLM) Location: T16N R 92W Sec. 16 (SW 20)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 15'

Height of Nest Above Ground 10'

Active ☒ Inactive ☐

No. of Eggs or Young 3y

Exposure ESE

Elevation _____

Vegetative Type sagebrush (70%)
mixed grasses (30%)

Remarks: MAY HAVE been
4 young - all had fledged.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number P24-78

Date of Observation 7/1/78

Species Prairie Falcon

Land Ownership: P (S) BLM

Location: T29N R 90W Sec. 8 (SE1)

Description of Nest Site:

Nest Substrate Limrock

Height of Substrate 30'

Height of Nest Above Ground 25'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure SSE

Elevation _____

Vegetative Type sagebrush,
mixed grass.

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulvaney

Nest Number P25-78

Date of Observation 9/11/78

Species Prairie Falcon

Land Ownership: P S BLM

Location: T. 30N R. 89W Sec. 15 (SE 1)

Description of Nest Site:

Nest Substrate Dome Rock

Height of Substrate 60'

Height of Nest Above Ground 55'

Active ☒ Inactive ☐

No. of Eggs or Young 4y

Exposure SSW

Elevation _____

Vegetative Type sagebrush

Remark

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number 501-78

Date of Observation 5/24/98 Species Screech Owl

Land Ownership: (P) S BLM Location: T20N R 78W Sec. 34 (SE 15)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 90'

Height of Nest Above Ground 50'

Active ☒ Inactive ☐

No. of Eggs or Young

Exposure WSW

Elevation

Vegetative Type Broad Leaved
Woodland, Riparian

Remarks: Adult in entrance
to large cavity, probably
nest site. Production NOT
checked.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number B01-78
Date of Observation 6/12/79 Species Burrowing Owl
Land Ownership: (P) S BLM Location: T21N R 89W Sec. 17

Description of Nest Site:

white-tailed prairie
Nest Substrate dog burrow

Height of Substrate 0'

Height of Nest Above Ground 0'

Active ☒ Inactive ☐

No. of Eggs or Young 3y +?

Exposure N

Elevation _____

Vegetative Type sage brush,
mixed grasses.

Remarks: Nest re-checked
on 7/7/78. Three young
and one adult were at
entrance to burrow, young
into hole, adult flew.
May have been more
young in burrow.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number GHO1-78
Date of Observation 5/23/78 Species GREAT HORNERD OWL
Land Ownership: (P) S BLM Location: T17N R 79W Sec. 4 (SE 21)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 35'

Height of Nest Above Ground 30'

Active ☒ Inactive ☐

No. of Eggs or Young 2 y

Exposure WITHIN CANOPY

Elevation _____

Vegetative Type Riparian,
Mixed GRASSES

Remarks: ~ 100 yds W of
Red-tail #1, obviously
in previous red-tail nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulvaney Nest Number GH02-78
Date of Observation 5/24/78 Species GREAT HORNED OWL
Land Ownership: (P) S BLM Location: T 24N R 85W Sec. 27 (SE8)

Description of Nest Site:

Nest Substrate Rock Knob
Height of Substrate 20'
Height of Nest Above Ground 20'
Active ☒ Inactive ☐
No. of Eggs or Young 3y
Exposure Open
Elevation _____
Vegetative Type Sagebrush

Remarks: Young flying -
may be more than 3.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GHD 3-78

Date of Observation 5/24/78

Species GREAT HORNED OWL

Land Ownership: P (S) BLM

Location: T22N R77W Sec. 36 (SE 15)

Description of Nest Site:

Nest Substrate Kim Rock

Height of Substrate 20'

Height of Nest Above Ground 19'

Active ☒ InactiveNo. of Eggs or Young / ⁺ _y ^{*}Exposure N

Elevation

Vegetative Type mixed grasses

Remarks: * One young past fledging observed near nest, others may have also been fledged, however not observed.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number GHO 4-78
Date of Observation 5/24/98 Species GREAT HORNED OWL
Land Ownership: (P) S BLM Location: T23N R 78W Sec. 32 (SE15)

Description of Nest Site:

Nest Substrate Soil Bank

Height of Substrate 25'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure SSE

Elevation _____

Vegetative Type sagebrush (70%)

Riparian (30%)

Remarks: Ready to fledge
@ any time

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN Mulsap Nest Number GH05-78
Date of Observation 5/25/79 Species Great horned Owl
Land Ownership: (P) S BLM Location: T22N R79W Sec. 5 (SE15)

Description of Nest Site:

Nest Substrate Pinrock
Height of Substrate 25'
Height of Nest Above Ground 20'
Active ☒ Inactive ☐
No. of Eggs or Young *
Exposure _____
Elevation _____
Vegetative Type sage brush

Remarks: * One observed,
probably more but all
had fledged.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Miusap

Nest Number GHO6-78

Date of Observation 5/30/78

Species GREAT HORNED OWL

Land Ownership: EO S BLM

Location: T16N R 74W Sec. 29 (SE 21)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 60'

Height of Nest Above Ground 50'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure SE, Above

Elevation

Vegetative Type Riparian

Remarks: * Young fledged.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Mulsap

Nest Number GHO 7-78

Date of Observation 5/31/78

Species GREAT HORNED OWL

Land Ownership: P S BLM

Location: T22NR113W Sec. 32 (SW 12)

Description of Nest Site:

Nest Substrate Clay Cliff

Height of Substrate 25'

Height of Nest Above Ground 20'

Active ☒ * Inactive ☐

No. of Eggs or Young 2y

Exposure N

Elevation _____

Vegetative Type mixed grass,
bare ground (<30%)

Remarks: *2 young seen,
may have been more as
nest had fledged.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Musar

Nest Number 6H08-78

Date of Observation 7/8/78

Species Great horned owl

Land Ownership: (P) S ELM

Location: T14N R93W Sec. 21 (SW15)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 30'

Height of Nest Above Ground 20'

Active ☒ * Inactive ☐

No. of Eggs or Young

Exposure E

Elevation

Vegetative Type riparian

Remarks: * Young fledged

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GHO 9-78

Date of Observation 6/1/79

Species GREAT HORNED OW!

Land Ownership: (P) S BLM

Location: T 21N R 109W Sec. 5 (SW13)

Description of Nest Site:

Nest Substrate Cottonwood

Height of Substrate 20'

Height of Nest Above Ground 15'

Active ☒ Inactive ☐

No. of Eggs or Young 2y

Exposure Dense thicket

Elevation _____

Vegetative Type Broad-leaved

WOODLAND

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap

Nest Number GHO 10-78

Date of Observation 6/2/78

Species GREAT HORNED OWL

Land Ownership: P S BLM

Location: T18N R103W Sec. 36 (SW19)

Description of Nest Site:

Nest Substrate Pinrock

Height of Substrate 120'

Height of Nest Above Ground 20'

Active ☒ Inactive ☐

No. of Eggs or Young 3 young

Exposure NW

Elevation _____

Vegetative Type Mixed Grass,
Sagebrush

Remarks:

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILLSAP Nest Number GHO 10-78
Date of Observation 6/15/78 Species GREAT HORNED OWL (SE14)
Land Ownership: P S ELM Location: T20N R92W Sec. 11

Description of Nest Site:

Nest Substrate Hogback
Height of Substrate 35'
Height of Nest Above Ground _____
Active ☒ Inactive _____
No. of Eggs or Young 1 + Y
Exposure S
Elevation _____
Vegetative Type sagebrush,
mixed grass (<10%)

Remarks: One juvenile seen,
actual nest not located
but probably within 10yds
of juvenile's perch in rock
cavity.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number 6HD 12-78
Date of Observation 7/9/78 Species Great horned Owl
Land Ownership: P S BLM Location: T 16N R 92W Sec. 16 (SW 20)

Description of Nest Site:

Nest Substrate Rimrock
Height of Substrate 60'
Height of Nest Above Ground 12'
Active ☒ Inactive ☐
No. of Eggs or Young
Exposure WSW
Elevation
Vegetative Type Rye grasses
(40%), juniper (40%),
sagebrush (20%)

Remarks: Nest located,
however no young remained
in nest. Pellet accumulation
below nest indicates probability
of success.

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MILSAP

Nest Number GHD13-78

Date of Observation 6/1/78

Species GREAT HORNED OWL

Land Ownership: P S BLM*

Location: T23N R110W Sec.31 (SW13)

Description of Nest Site:

Nest Substrate COTTONWOOD

Height of Substrate 30'

Height of Nest Above Ground 20'

Active ☒ ** Inactive ☐

No. of Eggs or Young 1 + ? y

Exposure Above

Elevation _____

Vegetative Type Riparian,
Sage brush.

Remarks: * SEEDSKADEE N.W.R.

** PRODUCTION NOT NOTED,
Young had Fledged. At least
1 young perched Near nest.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer Brian Millsap Nest Number GH014-78
Date of Observation 6/16/78 Species GREAT HORNEO OWL
Land Ownership: P S BLM* Location: T23N R.110W Sec. 32 (SW13)

Description of Nest Site:

Nest Substrate COTONWOOD
Height of Substrate 50'
Height of Nest Above Ground 25'
Active ☒ ** Inactive ☐
No. of Eggs or Young _____
Exposure Above
Elevation _____
Vegetative Type Mixed Grass,
Scattered ~~Scattered~~ Cottonwoods

Remarks: *SEEDSKADEE N.W.R.

**1 Young observed in tree-
Nest must have been in
area.

(Photograph)

RAPTOR INVENTORY DATA SHEET
[for field notebook (looseleaf)]

Observer BRIAN MULLSAP Nest Number GHO 15-78
Date of Observation 6/19/78 Species Great horned Owl
Land Ownership: (P) S BLM Location: T 19N R 89W Sec. 7 (SE 13)

Description of Nest Site:

Nest Substrate Limrock
Height of Substrate 70'
Height of Nest Above Ground 25'
Active ☒ Inactive ☐
No. of Eggs or Young 3y
Exposure SE
Elevation _____
Vegetative Type sage brush
(70%), mixed grasses (30%)

Remarks: In ledge above
large outwash in sandstone
face. Young flying at this
time.

(Photograph)

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696 Raptor nesting and
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