

&

SEASON END REPORT  
LITTLE FIVE LAKES  
JUNE 12-OCTOBER 2, 1997  
ERIKA JOSTAD

A. GENERAL OBSERVATIONS

CONTACTS

Backpacker--1150

Day hiker--65

Stock--55 Animals including pack and saddle and llamas. Stock users contacted were primarily commercial (Mineral King Pack Station). Commercial 60%, Administrative 30%, Private 10%. Additionally, I received reports and saw evidence of roughly 50 more animals using the patrol area.

START OF SEASON--Rangers arrived in the backcountry late in June. Early snowmelt allowed visitor access into the highcountry prior to this time. Numerous violations from early season were noted and photodocumented including illegal campfire rings, garbage, and break in to the food storage boxes at the Little Five Lakes Ranger Station where food and two pots were taken.

LAW ENFORCEMENT--Violations addressed in the patrol area included contamination of water sources, vegetation damage, illegal campfires, improper food storage and garbage left in campsites. Warnings and retribution such as garbage collection and fire pit removal and garbage collection continued to be utilized as a means to enhance visitor responsibility in caring for the wilderness area, ultimately with positive comments and improved behavior.

CITATIONS--One citation was written at Spring Lake for an illegal campfire built in a meadow with garbage left behind.

MEDICALS--Minor medicals included treatment of lacerations, altitude sickness in varying degrees, strained knee.

TRANSPORTS--Nick, the Kern Trail Crew horse packer, was transported via helicopter to Ash Mountain for broken ribs. Flew medical for a Scout Troop Leader with altitude sickness from Crabtree Ranger Station to Lone Pine Clinic.

SEARCHES--Averted a search for overdue hiker out of Mineral King (See RECOMMENDATIONS) by providing information. Two searches begun out of Mineral King for hikers in the patrol area which were resolved within one day. Participated in second search for Randy Morgenson in high probability areas which had not previously be searched with no new clues discovered.

RESCUES--Participated in rescue on Mt. Tyndal of a large (6' 11", 250 lbs.) hiker with a broken femur. Carried hiker from 14,000' to 12,500' before a Black Hawk helicopter relieved us all and picked him off the mountain.

WEATHER--Snowpack was rated as "normal" for the 1996-97 winter with the majority of snow coming by January and very early meltoff. Blackrock Pass, Kaweah Gap, Timber Gap and Franklin Pass were accessible to backpackers without ice axe or crampons by the time the rangers entered the back country (June 25). Sawtooth Pass became accessible without equipment within two weeks. Summer weather was wet with less

than 20% of days as cloud free and frequent thunderstorms.

FIRES--No fires burned in the patrol area. Signs from 1996 Big Arroyo PNF were removed in part and the remaining signs cached for the Fire Management Office to pick up. At the end of the 1997 season these cached signs remained in the field with one report of a sign having been reinstalled by a visitor in Lower Big Arroyo. Significant winter downfall resulted in the fire area on the trail of Lower Big Arroyo. (See RECOMMENDATIONS)

## B. USE PATTERNS

BACKPACKERS--Hikers were in the area beginning in May due to early snow melt. Concentrated use continues to be at sites with food storage boxes along the high loops. Use increased at the Lost Canyon/Big Five Lakes trail junction with the installation of a food storage box, as evidenced by new areas of bare ground and fire rings. Glacier Pass and Spring Lake saw increased use presumably in response to the trail washout below Pinto Lake. It was not uncommon to find 20+ campers here.

STOCK USE--Stock use continues to be concentrated at Forester Lake and Long Lake. There is a new concessionaire, Jerry and Dana Page, running the Mineral King and Wolverton Pack Stations. Much time was spent in the field with the packers introducing them to the area and discussing what is expected, including an overnight stock trip taken from Little Five Lakes to Forester Lake with the Mineral King Pack Station. Relations with the new packers are good however they have ideas about running their operation which are in conflict with our mission of managing the wilderness (A permanent camp with showers, tents, cook...set up between the two pack stations, burying barrels for food storage at favorite camps). This season was a quick introduction for them and we should expect an expanded operation for the coming season with increased stock and additional packers in the field.

ADMINISTRATIVE USE--Trail Crew stayed with stock in Lower Rattlesnake and Lost Canyon for a week each and a few days at the Big Arroyo Patrol Cabin. They also spent one week camped for a fall project at Pinto Lake.

## C. NATURAL RESOURCES

BEAR ACTIVITY--A sow with three cubs was taking food from campers from the time the ranger arrived in late June until September. Most reports were second hand though the incidents seemed to occur primarily in Lost Canyon and the Upper Big Arroyo to Hamilton Lakes corridor. The ranger did observe the gaggle of bears crossing Kaweah Gap after making the rounds of the camps in Nine Lake Basin in mid-day. Bear activity was evidenced at the Ranger Station by frequent paw prints around the food storage boxes (which are stored away from the cabin) and repeatedly chewed up toilet paper rolls at the privy. It is unclear if any bears came in contact with the electric fence which is now connected with the photovoltaic system. This maintains a consistent charge to the fence throughout the season, as opposed to previous years when the charge from a car battery diminished rapidly. Marmots were observed flattening themselves out like pancakes and wiggling past the fence on their bellies presumably because they had felt the charge. One park employee was observed receiving a shock from the new fence set-up and jumped across the cabin reporting moderate pain (previously the ranger could hold onto the fence wire with no discomfort). Numerous fresh bear scratches in trees were noted in Soda Creek and Lost Canyon.

WILDLIFE--A spotted sandpiper nested on the shore of the Ranger Station Lake at Little Five between the Station and the main camping area--a busy spot and the first time they were observed nesting at the lake.

Observed more pikas than in the previous three years. Deer mouse population seemed to have crashed this year as there was no evidence of mice visitations at the Ranger Station (UNHEARD OF!).

VEGETATION--Forester Lakeshore Meadow was added to the Residual Biomass Monitoring Program. Meet with Plant Ecologists (old and new) at Pinto Lake and in the Upper Rattlesnake and Forester Lake areas to discuss grazing issues. Install meadow exclosure at Pinto Lake Meadow which was used in part as a reference standard for RBM. (Exclosure was dismantled for winter and can be found at the base of the only tree in the meadow plot--see plot map). Redwood Meadow was revisited by the Plant Ecologist and last year's mechanical treatment of coneflower was deemed a moderate success. It is unclear whether the meadow will continue to be treated or open to grazing. Hope to get color pictures of sensitive plant species in the area so that the sites can be monitored. Heavily used sites were revegetated at Little Five Lakes, Big Arroyo and Lost Canyon.

#### D. CULTURAL RESOURCES

PREHISTORIC SITES--Grinding rock and obsidian chip sites were visited on Chagoopa Plateau and appear to have fared well in last summer's fire. Various other obsidian chip sites were revisited in the patrol area and are intact. In a couple heavy use sites, obsidian was reburied. A site with 300+ obsidian chips was found in the vicinity of Marian Peak and appears unvisited since the native people last camped there.

HISTORIC SITES--Photo documentation was conducted for the park archaeologist of historic and prehistoric sites including the Chagoopa Treehouse, Big Arroyo Patrol Cabin, and Native American hunting blind on the east side of Glacier Pass. The outdated sign at the Big Arroyo Patrol Cabin was removed at the beginning of the season. This, coupled with a rainy summer, increased camping inside the cabin. Food garbage was left inside the cabin and a bear dug out the rock foundation to access it. Garbage was scattered in a 1/4 mile radius around the cabin. The rock foundation was replaced and reenforced from the inside. The cabin is now locked. Historic tree carvings remain intact. The Chagoopa Treehouse was investigated with the intention of its removal (see RECOMMENDATIONS).

#### E. BACKCOUNTRY FACILITIES

CABIN--The cabin frame required some rebuilding in the spring (this is typical) however the frame is developing a distinct lean to the southwest. It should remain stable for years to come a hammer and the canvas stabilizes this. However it is something to keep an eye on. The canvases were left at the station overwinter this year in the sunken barrel. It has been a water tight container and hopefully will continue to be so there is no moldy mess in the spring. This saves 110 pounds of weight flying in and out each spring and fall. Photovoltaic array continues to be functional and was pole mounted this year. Depending upon the angle of light, this made it visible at times from Black Rock Pass. Pit toilet was relocated to a site on the hill behind the cabin which is one of the first to melt out in spring so the toilet should be easier to locate and usable for a longer period. New cast iron stove replaced the Coleman set up. It worked well but uses more propane. Continue to believe that a non-"shelta" cabin would be more functional and in keeping with the wilderness setting. The Sequoia District Ranger visited the station this season and talked about financing a stone cabin.

SIGNS--Site restoration signs were removed after rehab work was conducted in Lost Canyon and Little Five Area. One new restoration sign was installed in the vicinity of the new food storage box in Lost

Canyon. Signs from 1996 PNF in Big Arroyo/Chagoopa were removed or cached for pick up by the fire management office. (For locations of signs see APPENDIX A). This pick up never occurred. Signs remained cached at a few locations with a late season report that one sign has been reinstalled by a thoughtful visitor in the Big Arroyo. Do we want to sign cross country areas like Shotgun Pass? Willow Meadow Cut-Off remains signed at the Lower Big Arroyo and unsigned in Rattlesnake Creek.

#### F. TRAILS

TRAIL CREW ACTIVITIES--Due to flooding during the winter, trail crews in Sequoia were combined to work on bridge projects on the High Sierra Trail in the Kaweah drainage. A small crew consisting of a crew leader, volunteer and packer worked the entire Kern Drainage mostly clearing trail. The fall project was to work on trail washouts below Pinto Lake in the Cliff Creek drainage due to last winter's flooding.

PROBLEM AREAS--Due to the winter floods, several trails further deteriorated.

1. Black Rock Pass--West side continuing down to nearly Cliff Creek Junction. Two major washouts occurred and the switchbacks below Pinto Lake were severely eroded. The trail crew fall project brought this trail to a passable condition through a reroute and clearing of the trail. They hope to be back next year to get it into good condition.
2. Lower Lost Canyon to Lower Soda Creek--Both of these trails suffered from flooding and washouts. They are in need of rerouting and erosion control.
3. Lower Big Arroyo--Heavy downfall due to the 1996 PNF in the Big Arroyo has obliterated the bottom of this trail near the Willow Meadow Cut-Off. The amount of down trees was more than the abbreviated trail crew could take on this year. It would be good to get fire pro in hear to log this area, but have someone meet them who knows where the actual trail is (there is a use path on the west side of the creek between Soda Creek and Willow Meadow Cut-Off, however the trail is on the east side of the creek and is easy to miss if you are dropped off by helicopter on the west side).
4. Sawtooth Pass--We are ignoring the problems here. Maybe we need to sign it as a cross country area??? It helps when hikers are told about conditions at the trailhead, they are less grumpy and might even have received a tip about how to stay on route.
5. Big Five to Lost Canyon--Steep loose rock and slick rock. Needs a few switchbacks.

#### G. CAMP AREAS

CONDITIONS--Campsites which see most use are associated with food storage boxes and are afflicted with erosion, numerous fire pit scars and human waste. Where dispersed camping is still practiced, campsites remain in very good condition receiving use a few times each season at most compared with 80-100 time each season where a food storage box is present.

SANITATION--Human waste was most problematic this season at Columbine Lake with numerous piles of waste found unburied in close proximity to camp sites and the lakeshore. On pile was found deposited on the trail and was being feasted upon by marmots. This is of course vile and irresponsible of the depositing parties, however it is vaguely understandable. At Columbine Lake there are few "digable" areas and

mostly large rock surfaces which cannot accommodate the volume of feces which are deposited. The food storage box which was installed in Lost Canyon may have decreased the numbers of campers at Columbine Lake (after only one season it is difficult to ascertain). We need to continue redirecting camping away from this area. (See RECOMMENDATIONS). At Little Five Lakes, a sign with illustration has helped direct campers to appropriate places to leave their treats behind rather than in other people's campsites.

FIRERINGS--Three side fire rings are maintained in most camp areas and continue to be enlarged (and dug up on several occasions?) by visitors. They just don't seem to like small, practical fire pits. They look good when they are clean, but perhaps we need to try something different.

FIREWOOD AVAILABILITY-- Firewood availability is low at all campsites in the patrol area where food storage boxes are pressed and fires permitted. The new Lost Canyon food storage box site was photographed and is being monitored for impacts such as this. Photographs documenting firewood availability were also taken at Forester Lake and Little Claire Lake (See RECOMMENDATIONS). It would be nice to see campfire elevation limits set well below treeline in highly productive forests.

FOOD STORAGE--Most campers are camping at sites with food storage boxes. Those who do not continue to have food taken in Lost Canyon, Nine Lake Basin and Spring Lake. We need the capacity to respond to this, such as required food storage canisters at Spring Lake during the month of August when we know bear activity is occurring.

#### H. PERMIT SYSTEM

TRAILHEADS--Trailhead quotas need to address that camping is highly concentrated and that campers enter the same area from multiple trailheads to camp at the same site. Also, during fall data entry of the summer permits, it appeared that various trailheads were frequently overquota.

ISSUING OFFICES--Trailhead information has greatly improved from the Lone Pine office and is apparent in interactions with visitors entering on the east side (they actually know where they are).

#### I. INVENTORY

- Two full (I think... they were dropped off after I left the station for the season) and 1/2 propane tanks
- Cast Iron two burner stove
- Coleman two burner stove
- Coleman oven
- Simms wood stove
- Solar set up with 2 batteries excluding solar panels which are at Ash Mt.
- Food storage canister (backpacking variety)
- Two tent canvases
- Plastic sheet lining for inbetween canvases
- Three oxygen tanks with masks/canulas

#### J. NEEDS FOR NEXT YEAR

STATION--A new one.

EQUIPMENT--

- "Strike Anywhere" matches (two boxes)
- lighter
- paper clips

- staples
- thumb tacks
- ink pens
- candles
- large crescent wrench
- stove pipe (2 2' lengths, 2 elbow joints, 1 cap)
- heavy duty aluminum foil for stove flashing
- toilet paper
- paper towels
- dish towel, wash cloth
- sponge
- flashlight bulbs for headlamp (standard red & black variety)
- spray paint (3 brown, 1 white)
- stencils for food storage box (No fires)
- gasket for Presto pressure cooker
- table (2'6"W x 4'L x 3'H)
- medical gloves
- large wash basin
- AOU, stock use observation forms
- stainless steel pots (1 1/2 quart, 2 quart)

#### K. RECOMMENDATIONS

- Continue incorporating Trailhead Rangers into backcountry training. We still need them to be clear about grazing regulations.
- Continue and NPS presence on east side trailheads.
- Lower fire limit to 10,000' or less on west side of Kern so that it is below treeline.
- Allow for temporary closures to campfires in heavily used sites.
- Specific fire closure recommendations if general altitudinal fire limit is not lowered : Close Little Claire Lake, Forester Lake, and Pinto Lake. All are heavily depleted of down wood.
- Allow temporary requirement of food storage canisters for areas with high known bear activity.
- Meet with SDR and MKPS at beginning of season to coordinate activities.
- Removal of Chagoopa tree house will require a good fire or a chain saw and a pick axe and perhaps a couple of days.
- Continue monitoring Lost Canyon food storage box site for increased impacts.
- Remove food storage box at Columbine Lake and require use of food storage canisters.
- Have Firepro log out Lower Big Arroyo trail.
- Assure removal of 1996 PNF signs
- Allow no further installations of sunken barrels in the backcountry for packers. We have one out there now at "Judge's Camp" which was installed for the previous MKPS and is now unused. This becomes more garbage.
- Wire from the old phone system was collected and cached at Kaweah Gap. It will need to be removed by stock (try to coordinate with trail crew when they are in the area), helicopter, or numerous backpacker shuttles. This may be an Outward Bound project as they use the area and then head back to Bearpaw. There is also a post cemented to rock at the Gap to work on.
- Start field season earlier so that backcountry conditions can be assessed (wash outs, meadow opening dates, snow on passes etc) and camps cleaned in a timely manner.

APPENDIX A

LOCATION OF 1996 PNF SIGNS

- High Sierra Trail at upper junction on Chagoopa Plateau
- Big Arroyo Patrol Cabin
- Lower Big Arroyo at Soda Creek junction (one sign may have been reinstalled here)
  
- If the actual signs are desired, there are several at the Little Five Ranger Station and one at the Kern Ranger Station

Little Five Lakes  
Erika stad-1997

WILDLIFE OBSE

ON SUMMARY REPORT

Rev. 12/06

DATE (Yr-M-D)	SPECIES (Common or Latin)	LOCATION NAME & UTM or Distance and Direction from mapped point	VEGETATION TYPE (see reverse)	BREEDING/ YOUNG?	OBSERVER full name
*All = 26-30 <sup>th</sup> 97-6-All	Yellow Bellied Marmot	4039.200N 362.500E Little Five Lakes @ Ranger Station	86100/45200	Adults & Juveniles	Erika Jostad
97-6-All	Mtn. chickadee	"	"	Adult	"
97-6-All	Robin	"	"	Adult	"
"	Hermit Thrush	"	"	Adult	"
"	Mule Deer	"	"	Does	"
"	Dark eyed Junco	"	"	Adult	"
97-6-29	White Crowned Sparrow	Spring Lake 4037.700N 360.900E	91210	Adult	"
97-6-29	Coyote	E. Side Black Rock Pass 4038.700N 361.500E	91000 - Snow	Adult	"
97-6-30	White Breasted Nuthatch	Big Arroyo Patrol Cabin 4042.500N 362.750E	86200	Adult	"
97-6-30	Clarks Nutcracker	Big Arroyo Patrol Cabin 4042.500N 362.750E	86200	Adult	"
97-6-All	Tree Frog	Little Five Lakes @ Ranger Station 4039.200N 362.500E	45200	Breeding Adults	"
97-6-All	Spotted Sandpiper	"	45200/Lakeshore	Possibly Nesting	"
97-7-3	Williamsong Sapsucker	Ridge btwn. Little Five & Big Five 4039.300N 364.400E	86100	Male	"
97-7-3	Red breasted Nuthatch	"	"	Adult	"
97-7-3	Douglas Squirrel	"	"	Adult	"
97-7-3	Golden Mantle Ground Squirrel	"	"	Adult	"
97-7-3	Western Terrestrial Garter Snake	Ridge btwn Big Five & Last Canyon @ 4037.500N 365.800E	"	Adult	"
8/7/4	Spotted Skunk	EXAMPLE 1/2 mi. N of Hospital Rock 4044N, 371E Lake	71120	ad. + 2 yng.	Graber, David M

Please see reverse for important instructions

Please return to: RESEARCH OFFICE  
SEQUOIA & KINGS CANYON



Little Five Lakes

Erika J. ad-1997

Sequoia and Kings Canyon National Parks

Research Office

Wildlife Observation Report Form

DATE (Yr-Mo-Dy)	SPECIES (Common or Latin)	LOCATION NAME AND UTM COORDINATES or Distance & Direction from named mapped point	VEGETATION TYPE (See Reverse)	BREEDING/ YOUNG?	OBSERVER Full name
97-7-3	Mtn. Quail (Fall)	Middle Soda Creek <sup>4033.600N 365.300E</sup>	37500	Adult	Erika Jostad
97-7-3&6	Peregrine Falcon	Cliffs above middle Soda Creek <sup>4033.500N 364.500E</sup>	48000		"
I heard the peregrine cry from the cliffs above middle soda creek on two occasions while passing through. I didn't see the bird, so identification is based on the call and location only...					
97-7-3	Cassins Finch	Little Claire Lake <sup>4031.700N 363.700E</sup>	86200	Adult-♂	"
97-7-3	Mtn. Chickadee	"	"	Adult	"
97-7-3	Clark's Nuthacker	"	"	Adult	"
97-7-4	Grey Crowned Rosy Finch	Franklin Pass <sup>4030.900N 361.800E</sup>	91000/snow	Adult	"
97-7-4	Ylw Rumped Warbler	Little Claire Lake <sup>4031.700N 363.700E</sup>	86200	Adult	"
97-7-5	Brewer's Blackbirds	" (passing over)	86200	Adults	"
97-7-6	Golden Mantle Ground Squirrel	"	86200	Adult	"
97-7-6	Brewer's Blackbirds	Little Five Lakes @ Ranger Station <sup>4039.200N 362.500E</sup>	45200	Adults	"
97-6-29	Doe w/ two fawns	W. side Glacier Pass <sup>4035.400N 358.700E</sup>	91000	Breeding	Dave Yemm
97-7-9	Black Backed Woodpecker	Lippincott Creek <sup>4042.100N 362.300E</sup>	86200	Adult	Erika Jostad
97-7-9	Blue Grouse	High Sierra Trail btwn Big Arroyo & Chagopa <sup>4041.300N 365.300E</sup>	86200	Adult	"
97-7-9	Red Tail Hawk	Moraine Lake <sup>4035.400N 369.800E</sup>	86100	Adult	"
97-7-9	Cassins Finch	"	"	"	"
97-7-9	Robin	"	"	"	"
97-7-9	Hermit Thrush	"	"	"	"

Little Five Lakes  
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Sequoia and Kings Canyon National Parks

Search Office

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97-7-9	Vaux's Swift	Moraine Lake 4035.900N 369.800E	(also recent burn) 86200/Lakeshore	Adult	Erika Jostad
97-7-9	Northern Flicker	"	86100	Adult	"
97-7-9	Common Nighthawk	"	over lake 86200	Adult <sup>0</sup>	"
97-7-10	Sharp Shinned Hawk	Mdw. @ upper jctn of High Sierra Trail on Chagaapa 4039.300N 368.500E	86100/45200 (wet)	Adult	"
97-7-10	Yllw. Rumped Warbler	4039.900 369.050E Treehouse Meadow - Chagaapa	86200	Adult	"
97-7-15	Red breasted Nuthatch	4036.700N 366.000E Lost Canyon - Big Five Jctn	86200	Adult	"
97-7-15	Clark's Nutcracker	"	86200	Adult	"
97-7-15	Golden Eagle	4035.450N 367.600E Lost Canyon - Soda Creek Jctn	85210	Adult	Steve Klump
97-7-15	White Tailed Jackrabbit	4036.700N 366.000E Lost Canyon - Big Five Jctn.	86200	Adult	Tim Lederly
97-7-16	Gray crowned Rosy Finch	4036.300N 362.500E Upper Lost Canyon	45200	"	Erika Jostad
97-7-16	Robin	"	45200	"	"
97-7-16	Dark eyed Junco	"	45200	"	"
97-7-16	White crowned Sparrow	"	45200	"	"
97-7-16	Mule Deer	"	45200	"	"
97-7-16	Dipper	4036.400N 361.250E Columbine Lake	91000/Lake outlet	"	"
97-7-16	Marmot	"	91000	"	"
97-7-17	Pika	4039.300N 364.500E Ridge btwn. Little Five - Big Five	91220	"	"
97-7-17	Golden Eagle	"	Above 91220	"	"
97-7-18	Pika	Glacier Pass 4036.450N 359.600E	91220	"	Dave Yemm

Little Five Lakes  
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97-7-19	Mountain Bluebird	Sawtooth Pass 4035.900N 360.200E	91220	Adult	Erika Jostad
97-7-19	2 Golden Eagles	Sawtooth Peak 4035.400N 360.650E	91000	Juveniles	"
97-7-19	Mule Deer	Bench below Glacier Pass 4036.900N 359.900E	45200 (wet)	Buck	"
97-7-19	2 Coyote	"	45200 (wet)	Adults	"
97-7-19	Yellow Bellied Marmots	"	45200 (wet)	Adults	"
97-7-20	Dipper	Little Five Lakes 4039.500N 362.400E	Lake surrounded by 86100	Adult	"
97-7-24	Black backed Woodpecker	Lower Long Lake 4040.900N 362.500E	86300	Adult	"
97-7-24	Golden Eagle	Cliffs above Kern Hot Spring 4037.500N 374.500E	48000	Adult	"
97-7-25	Dipper	Rock Crk confluence w/Kern River 4037.900N 374.200E	84230	Adult	"
97-7-25	Blk. Bear	Junction Meadow 4048.900N 373.500E	85210	Adult	Carrie Bates
97-7-28	Blue Grouse	Kern Basin 4057.500N 372.500E	86220	Adult	Erika Jostad
97-7-28	Water Pipit	Tyndal Plateau 4057.500N 374.900E	45200 (wet)	Adult	"
97-7-30	Raven	Crabtree Ranger Station 4046.900N 379.300E	86100	Adult	"
97-7-30	Pika	Timberline Lake 4047.100N 380.800E	91220	Adult	"
97-7-30	Blue Grouse	"	86100	Adult with Juveniles	"
97-7-30	Dipper	Hitchcock Lakes 4046.900N 381.950E	91210	Adult	"
97-7-31	Raven	Summit - Mt. Whitney 4048.600N 348.100E	91220	Adult	"
97-7-31	Pika	"	"	"	"
97-7-31	Alpine Chipmunk	"	"	"	"

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97-7-All	Mtn. Chickadee	4039.200N 362.500E Little Five Lakes @ Ranger Station	86100	Adults	Erika Jostad
"	Hermit Thrush	"	"	"	"
"	Ylw Bellied Marmot	"	86100 / 45200	Adults & Juveniles	"
"	Golden Mantled Ground Squirrel	"	"	Adults	"
"	Robin	"	"	"	"
"	Brewers Blackbirds	"	45200	Flock	"
"	Mule Deer	"	86100 / 45200	Does & Fawns	"
"	Pacific Treefrog	"	45200	Adults	"
"	Dark eyed Junco	"	86100 / 45200	"	"
97-8-3	Brewers Blackbirds	4037.100N 360.200E E. Side Glacier Pass	45200 (wet)	Adult	"
97-8-3	Dipper	4037.100N 360.200E E. Side Glacier Pass	"	"	"
97-8-6	Western Terrestrial Garter Snake	4038.800N 358.500E Mdw. @ Pinto Lake	45100	"	"
"	Mule Deer	"	"	Bucks	"
"	olive sided fly catcher	"	"	Adult	"
"	Ylw Bellied Marmot	"	"	"	"
"	Blue Grouse	"	"	Adult & w/juveniles	"
"	(Douglas squirrel) Chickaree	4039.600N 362.300E Little Five Lakes	86100 / 86300	Adult	"
97-8-10	Water Pipit	4045.500N 361.600E Upper Big Arroyo	45200 (dry)	"	"
"	Grey crowned Rosy Finch	"	"	"	"





17-1 (64)

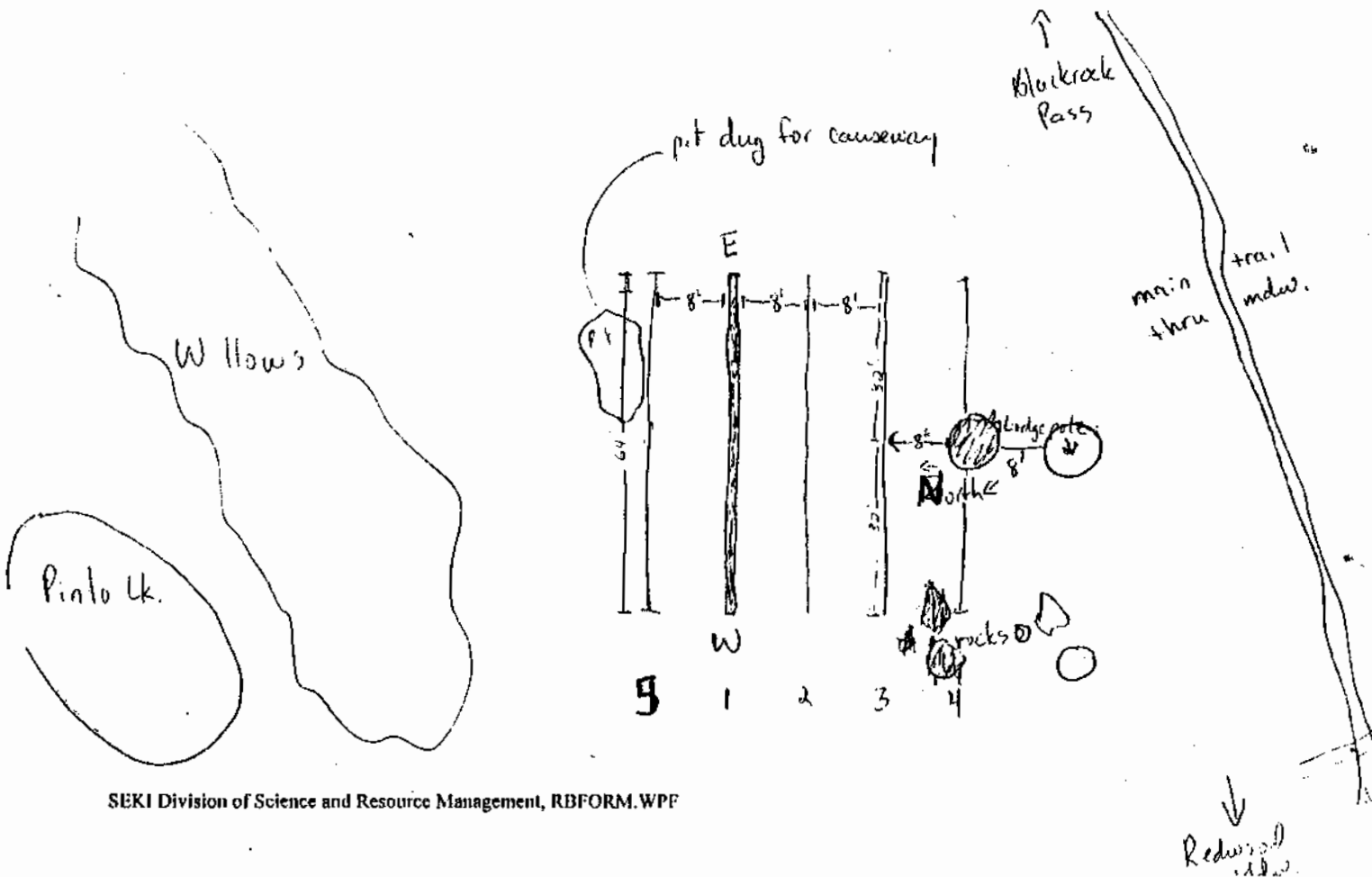
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PINTO LAKE CORE

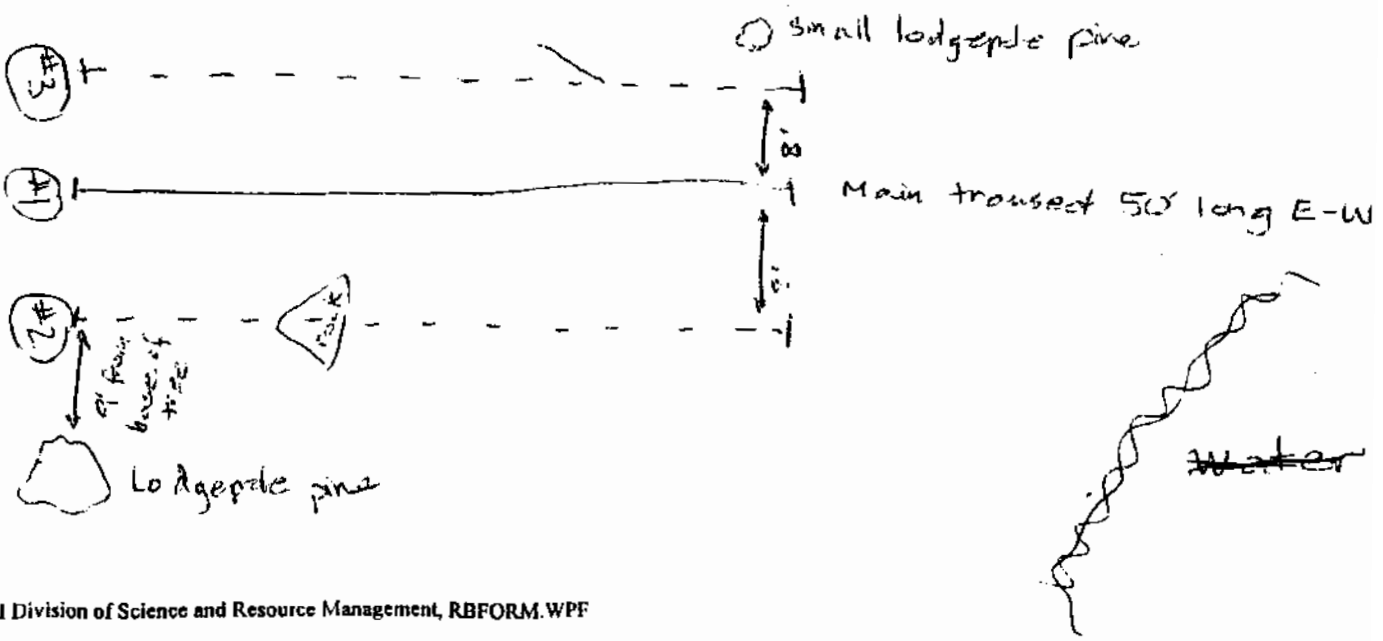
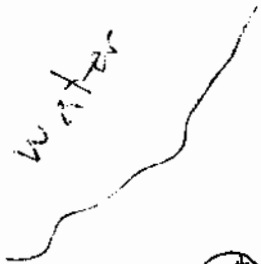
Plot	Rank	Base	Litr	Live	Rock	Plot	Rank	Base	Litr	Live	Rock	Plot	Rank	Base	Litr	Live	Rock	Plot	Rank	Base	Litr	Live	Rock
1	2		✓			26	2.5		✓			51	1.5	✓				76					
	2.5			✓		27	2			✓		52	1.5			✓		77					
	2.5			✓		28	3			✓		53	1.5	✓				78					
4	2			✓		29	1.5		✓			54	1	✓				79					
5	1.5			✓		30	1.5		✓			55	1.5		✓			80					
6	2.5			✓		31	1.5			✓		56	1.5		✓			81					
7	2	✓				32	1.5			✓		57	2		✓			82					
8	1.5			✓		33	1.5		✓			58	2			✓		83					
9	2			✓		34	1.5	✓				59	1.5			✓		84					
10	2			✓		35	1.5	✓				60	2.5			✓		85					
11	2	✓				36	1.5		✓			61	2			✓		86					
12	2			✓		37	1				✓	62						87					
13	2.5			✓		38	1	✓				63						88					
14	3			✓		39	2	✓				64						89					
15	3.5			✓		40	1.5	✓				65						90					
16	4			✓		41	1.5		✓			66						91					
17	4			✓		42	1.5	✓				67						92					
18	3.5			✓		43	1	✓				68						93					
19	3			✓		44	1.5		✓			69						94					
20	3			✓		45	1.5				✓	70						95					
21	2.5	✓				46	1	✓				71						96					
22	3			✓		47	1	✓				72						97					
23	3			✓		48	1	✓				73						98					
24	2.5			✓		49	1.5		✓			74						99					
	2			✓		50	2	✓				75						100					

Sketch of Sample Area: (1996)



Plot	Rank	Bar	Litr	Live	Rock	Plot	Rank	Bar	Litr	Live	Rock	Plot	Rank	Bar	Litr	Live	Rock	Plot	Rank	Bar	Litr	Live	Rock
1						26						51						76					
2						27						52						77					
3						28						53						78					
4						29						54						79					
5						30						55						80					
6						31						56						81					
7						32						57						82					
8						33						58						83					
9						34						59						84					
10						35						60						85					
11						36						61						86					
12						37						62						87					
13						38						63						88					
14						39						64						89					
15						40						65						90					
16						41						66						91					
17						42						67						92					
18						43						68						93					
19						44						69						94					
20						45						70						95					
21						46						71						96					
22						47						72						97					
23						48						73						98					
24						49						74						99					
25						50						75						100					

Sketch of Sample Area: LONG LAKE 1996 CORE





SEQUOIA and KINGS CANYON NATIONAL PARKS

Stock ██████ OBSERVATIONS

RANGER: Erika Jostad

STATION: Little Five Lakes YEAR: 1997

DATE	CAMP/TRAIL	CAMP DESTINATION	C, P, A ███ ███	NAME (Pack Station, Packer)	# Animals	█████ Area Grazed
15 July 1997	Lost Canyon - Big Five Jctn.	Trail Crew Camp @ Lost Canyon - Big Five Junction.	A	NPS - Nick	11	Middle Lost Canyon
25 July 1997	Jctn Meadow	Junction Meadow	A	NPS - Nick	11	Junction Meadow
9 Aug 1997	Long Lake	Long Lake	C	MKPS - Dana Page	5	Long Lake
23 Aug 1997	Lower Big Five	Lower Big Five	C	MKPS - Dana Page	9	Lower Big Five
24 Aug 1997	Forester Lake	Forester Lake	C	MKPS - Dana Page	9	Forester Lake
28 Aug 1997	Little Five	Long Lake	C	MKPS - Dana Page	6	Long Lake
29 Aug 1997	BK Rock Pass	Pinto Lake	C	MKPS - Dana Page	6	Pinto Lake

(Part  
gnc