

Summary report of stock use in wilderness meadows Sequoia and Kings Canyon National Parks, 2006

Summary

- With the May 1 snowpack containing 153-167% of the average annual water content, 2006 was characterized as a wet year. Late lying snow, high river crossings, and wet meadow conditions resulted in a shortened season for pack stock users in the two parks and reported stock use decreased accordingly.
- Reported recreational and administrative stock use during the summer of 2006 totaled **5,867 stock nights**, or 6,997 animal unit nights. This represents a decrease of 18% compared to 2005, which had a total of 7,115 stock nights reported.
- Commercial and administrative packers continue to account for the majority of packstock use in the two parks, accounting for 52% and 31%, respectively, of reported use. Private users accounted for the remaining 16%.
- Relative to 2005, reported commercial use decreased by 25%, while reported private use increased by 37%. Administrative use decreased by 22% over the previous year.
- Reported use of supplemental feed in lieu of grazing increased among all users relative to 2005. Overall reported use of supplemental feed increased by 124%.
- Horses and mules remained the primary type of stock used, accounting for 93% of total use. Llama use remained stable relative to previous years, accounting for only 0.6% of total use. Reported burro use increased, accounting for 7% of total stock use.

May10, 2007

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Introduction

This document provides the 2006 annual summary of reported administrative and recreational saddle and pack stock use of the wilderness and backcountry meadows of Sequoia and Kings Canyon National Parks (SEKI). This information is collected via reporting forms that are distributed to commercial, private, and administrative stock users, and from the wilderness permit database. After each trip all stock users at SEKI are required to provide the information requested on these forms.

Data on stock use of the wilderness meadows of SEKI has been collected in one form or another for over fifty years. In 1986, a standardized approach with accompanying computer database was initiated, and this method, although modified, is still in use today. From this database, yearly summary statistics are prepared and presented in tabular and graph form, and comparison with past years use is presented.

Methods

At the beginning of each field season (May) all commercial and administrative stock users of the wilderness at SEKI are provided forms to document their trips. Private stock users are given a "Stock-Use Card" along with the issuance of their wilderness permit. All stock users are required to respond to the information requested on these forms, which includes:

- 1) Name of packer
- 2) Date of trip
- 3) Packer classification (commercial, administrative, or private)
- 4) Type of stock used
- 5) Number of stock
- 6) Number of people
- 7) Name and location of forage areas where stock grazed
- 8) Number of nights spent in each forage area
- 9) Name of party on wilderness permit

After each trip these forms are completed and returned to the meadow monitoring specialist at SEKI and the information is then entered into a database. This years database file is named "*StockUse06.mdb*", and contains approximately 379 records of various private, commercial, and administrative overnight stock trips.

Prior to 1998 there was some confusion over the terminology used to calculate use levels presented in the annual stock use report. It appears the term stock night was used interchangeably with animal unit night, and it was not always clear which unit was being referred to. The following definitions are intended to help clarify these terms and to set the stage for the data that follow in the rest of the report.

Conventionally, an overnight stay by a pack animal is defined in terms of a common currency, the *animal unit night*. An *animal unit* is equal to approximately 1,000 pounds of grazing animal; an animal unit night refers to an overnight stay by that animal. In range management almost everything is compared to cows, which at approximately 1,000 pounds are rated at 1.00 animal unit night. According to this system, an overnight stay by a horse or mule is defined as 1.25 animal unit nights. An overnight stay by a burro is 0.50 of an animal unit night, and a llama is 0.35 of an animal unit night. The use of animal unit nights reflects the variation in forage consumed by these different sized animals, and allows for comparison with other grazing systems. An adult horse consumes approximately 25% more forage than an adult cow in a 24 hour period, a llama consumes 35% of that of a cow, and a burro about 50%. Thirty animal unit nights are equal to one *animal unit month* (AUM) which is the amount of dry forage required by

one animal unit for one month based on a standardized forage allowance of 26 pounds per day. The use of these standardized units allows range managers to compare use across systems and to establish grazing capacities based on the varying consumption of forage by different types of animal.

For the purposes of this report, and to make the data accessible to all users, a *stock night* represents an overnight stay by any pack animal, without reference to the more conventional animal unit night. In order to facilitate comparison between years, the statistics that follow are reported in stock nights. Where the data allow, summary figures are reported in both animal unit and stock nights. When referring to earlier reports, note that there may be discrepancies in the numbers reported due to use of different terminology. Discussions of grazing capacity, as in the annual Residual Biomass Monitoring Report, always rely on the more conventional animal unit night.

The following figures represent overnight visits by stock only, they do not include stock use from day trips, or drop trips which were completed in one day.

Results

User compliance. Of the 11 commercial pack stations operating in Sequoia and Kings Canyon during 2006 (one concessioner, 10 Commercial Use Authorization holders), eight submitted their annual stock use reports within two weeks of the due date specified in their contract or permit. The remaining three were reported to the concessions office for follow up, which eventually resulted in delivery of the reports (the last report was received by the park in late March of 2007).

Reporting of private use improved relative to 2005, when it reached an all time low. Of the 41 trips made by private parties during 2006, 10 users returned their cards at the end of the season. Eleven trips were documented using the wilderness permit database, and the remaining twenty through staff observation logs. The increase in reporting of private use (only two parties self-reported in 2005) most likely reflects the presence of a ranger on the Hockett Plateau during part of the 2006 season.

Reported use. Reported recreational and administrative stock use during the summer of 2006 totaled **5,867 stock nights**, or 6,997 animal unit nights. This represents a decrease of 18% compared to 2005, which had a total of 7,155 stock nights reported. Relative to 2005, reported commercial use decreased by 25%, while reported private use increased by 37%. Administrative use decreased by 22%.

The following statistics describe 2006 stock use by stock type, user type, month, and forage area; and compares that use with past years for which data are available. The letter next to the year indicates the type of snow pack winter (d=dry, n=normal, w=wet) that preceded the field season. According to the amount of moisture in the snowpack, we categorize a year as one of the following:

- 1) **Dry** (less than 50% of average precipitation)
- 2) **Normal** (50% to 150% of average precipitation)
- 3) **Wet** (more than 150% of average precipitation)

The snowpack is the best indicator we have of the amount of moisture the meadows received. Meadow opening dates for a particular season are adjusted based on snowpack during the preceding winter.

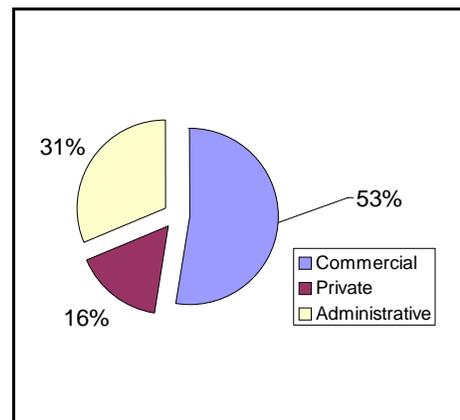
Based on snow survey data, 2006 was characterized as a wet year in the southern Sierra Nevada, with a May 1 snowpack ranging from 153% to 167% of normal in Sequoia and Kings Canyon drainages. In Kings Canyon National Park grazing was delayed by one to two weeks in three meadows due to locally wet conditions, while four meadows opened one to two weeks earlier than the anticipated date. In Sequoia National Park 21 meadows opened one to four weeks later than the wet season opening date, and one meadow opened a week earlier. As in 2005,

Upper Crabtree Meadow never dried out sufficiently to be opened to grazing during 2006. Note also that in several areas rangers did not arrive at their stations prior to the anticipated opening dates and were thus unable to evaluate them in a timely manner, making it difficult to provide up to date information to users.

Types of use. Use is divided into three categories: *Commercial* users are people or companies that pack in stock as a paid service. Companies or individuals of this type are required to hold a commercial operators license with the park. *Private* use is packing done by an individual or with his or her friends or family. Only a standard backcountry permit is required for this type of use. *Administrative* users are those that are employed by the National Park Service and who use pack stock in order to carry out their official duties.

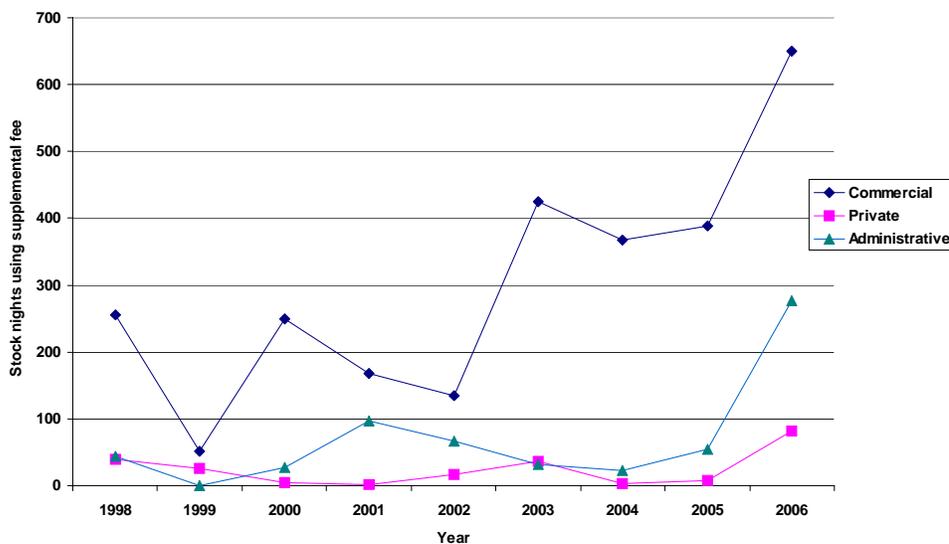
Table 1 and Figure 1. Proportional types of stock use in 2006.

2006	%	Stock Nights	Animal Unit Nights	Animal Unit Months
Commercial	53	3,079	3,646	122
Private	16	949	1,052	35
Administrative	31	1,839	2,299	77
TOTAL	100	5,867	6,997	233



Supplemental feed. Reported use of supplemental feed (hay, pellets or grain packed in lieu of grazing) increased 124% from 450 stock nights in 2005 to 1,008 stock nights in 2006.

Figure 2. Reported use (stock nights) of supplemental feed by user group 1998- 2006.



Historical Use (1984 to present). Reported use of stock at Sequoia & Kings Canyon National Parks from 1984 to the present is listed below. Information from years 1955-1983 is available upon request; data for years prior to 1955 likely exists but has yet to be located and summarized. As new information arises it will be incorporated into subsequent reports. Refer to **Figure 3**. It is important to note that these reflect *reported* use; due to inconsistencies in reporting, these may be quite different from actual use, especially during earlier years. Data from the period 1985 to the present are the most accurate.

Administrative grazing in the Ash Mountain pasture is not included in these figures. Up to 90 horses and mules may be grazing at Ash Mountain at any one time. Over the years, grazing in these pastures has ranged from approximately 300 to 700 AUMs or 8,000 to 21,000 animal unit nights per year. In most years, almost all of the park stock spend the winter (November to late April) at the Pixley Wildlife Refuge in the San Joaquin Valley, returning to the Ash Mountain pasture in spring.

Figure 3: Reported Stock Use in Wilderness Meadows of Sequoia and Kings Canyon National Parks, 1986-2006

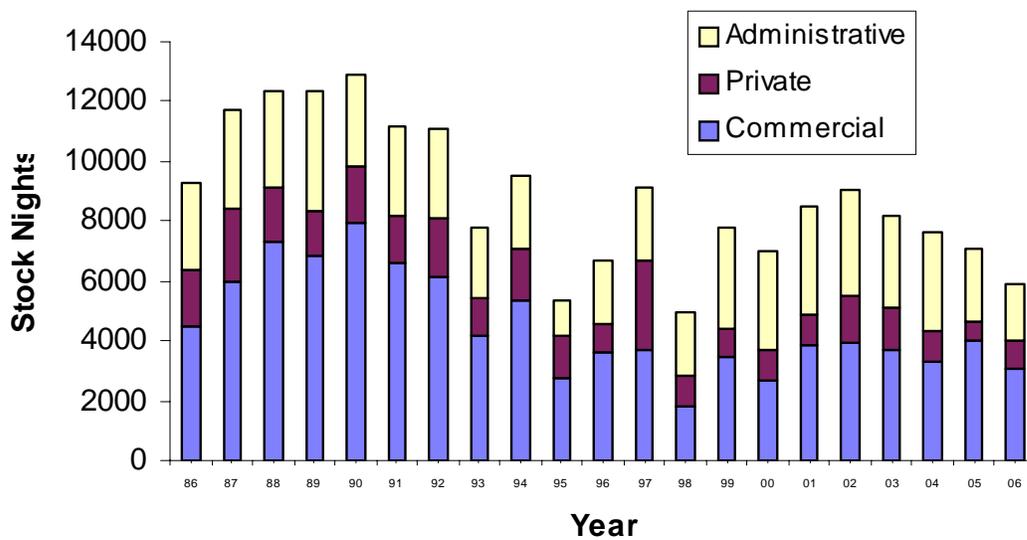


Table 2. Administrative Use (Stock nights). This includes all reported use by National Park Service personnel in the wilderness meadows, whether supplemental feed was provided or not. It does not include grazing in the Ash Mountain pasture.

	2006w	2005n	2004d	2003n/d	2002n/d	2001n	2000n	1999n	1998w	1997n	1996n
Cedar Grove Rangers	14	0	0	7	0	0	2	0	15	51	0
Grant Grove Rangers	0	0	0	0	0	0	2	0	51	0	0
Hockett Ranger	131	0	0	215	300	0	253	86	100	159	160
Hockett Trail Crew	674	523	857	562	908	816	622	637	325	41	330
Kern Trail Crew	370	887	918	906	846	1172	861	1093	552	888	494
Kern Ranger	136	242	255	569	559	489	492	465	425	429	274
Kern SDR	8	11	15	0	0	40	10	12	0	0	0
Kings Trail Crew	218	261	712	442	599	756	634	854	378	558	440
Mineral King Rangers	0	0	12	0	0	0	0	0	0	0	0
Roaring River Ranger	208	277	266	122	160	177	218	147	154	133	200
Squad Trip	0	120	152	90	0	72	95	n/a	102	90	108
Miscellaneous	80	50	76	76	95	74	72	45	74	80	130
TOTAL	1839	2364	3263	2928	3467	3596	3261	3339	2176	2429	2136

Figure 4. Administrative stock use by user, 1994-2006 (total stock nights per year by user class).

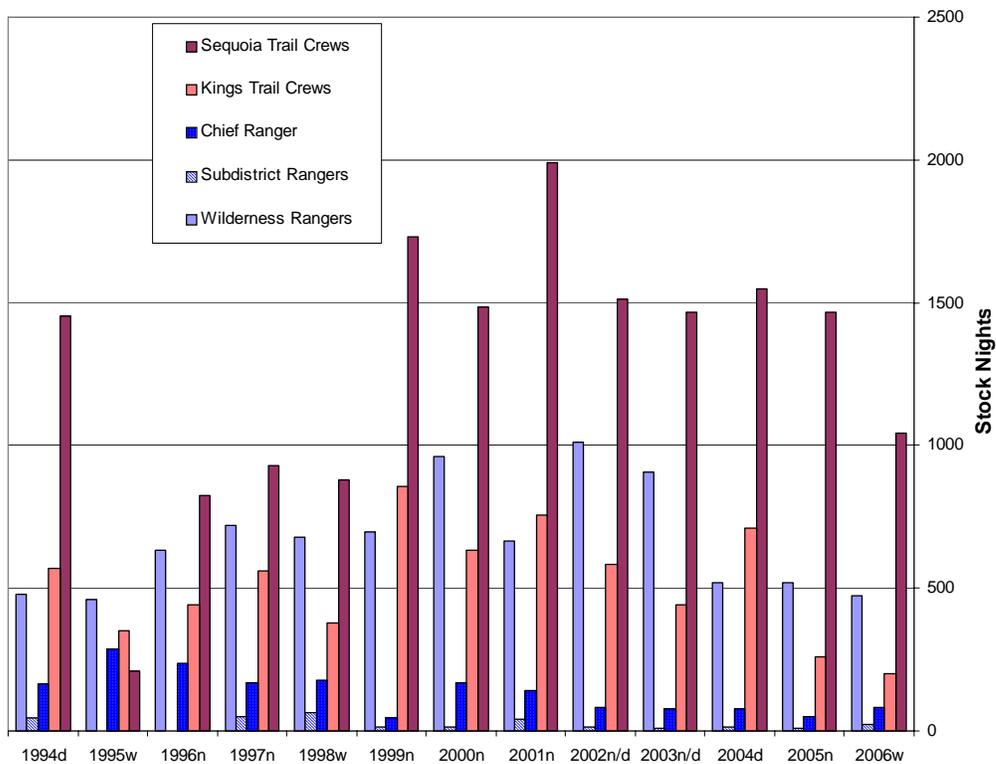


Table 3 and Figure 5. Commercial Use (Stock Nights). These numbers include those nights where supplemental feed was provided. Totals for previous years may also include use reported by stations no longer conducting business in Sequoia and Kings Canyon National Parks; packers reporting no use for three consecutive years are removed from the table.

PACKER	2006w	2005n	2004d	2003n/d	2002n/d	2001n	2000n	1999n	1998w	1997n
Balch Park	153	119	146	219	462	193	222	156	154	431
Bishop Pack Outfitters	32	0	80	65	240	134	35	329	48	139
Cedar Grove PS	435	880	955	965	797	1127	528	887	427	669
Clyde Pack Outfits	0	0	8	10	14	0	8	17	0	14
Cottonwood PS	284	660	298	312	133	247	233	104	84	285
Glacier Pack Train	0	88	0	0	0	0	0	0	7	42
Golden Trout PS	21	185	5	121	71	68	79	641	62	391
High Sierra PS	139	281	215	49	77	235	202	109	74	154
Horse Corral PS	532	364	374	224	296	408	161	176	30	212
Lost Valley Camp PS	0	10	0	0	40	65	54	62	89	41
Pine Creek PS	0	0	53	27	15	0	18	0	0	4
Rainbow Pack Outfitters	183	190	100	147	62	103	62	na	28	77
Red's Meadow PS	0	56	0	0	75	82	174	0	0	52
Rock Creek PS - Whitney Pack Train	970	990	340	543	424	636	176	607	416	683
Sequoia Kings Pack Train	60	159	170	221	145	253	4	29	41	91
Three-Corner-Round	270	120	535	600	528	0	420	110	0	90
TOTAL	3079	4102	3287	3462	3988	3292	2648	3467	1806	3624

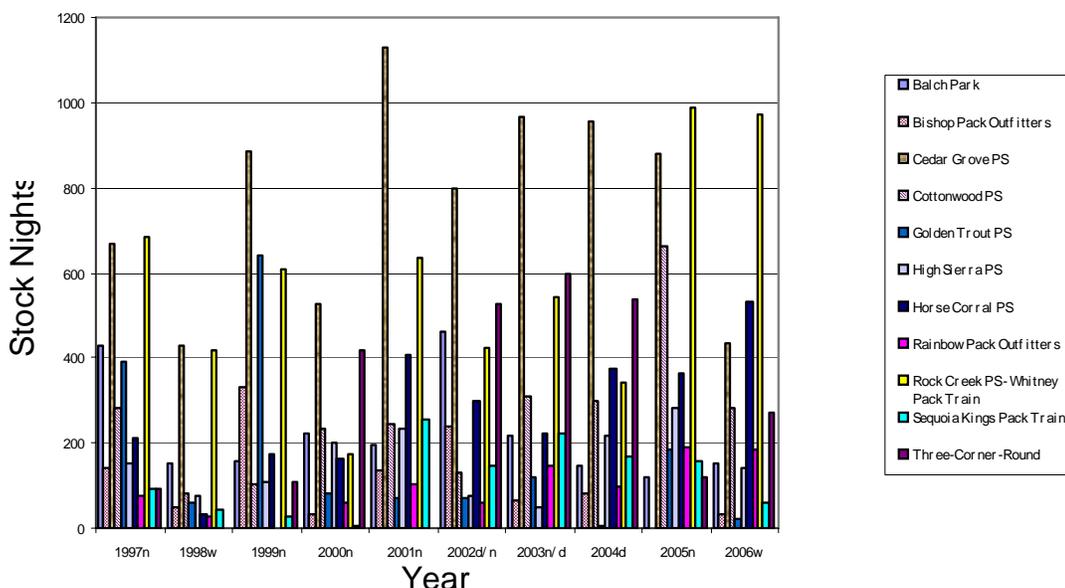


Figure 6. Types of Stock. Horses and mules remained the primary type of stock used in 2006, with burros and llamas making up a relatively small percentage of total use.

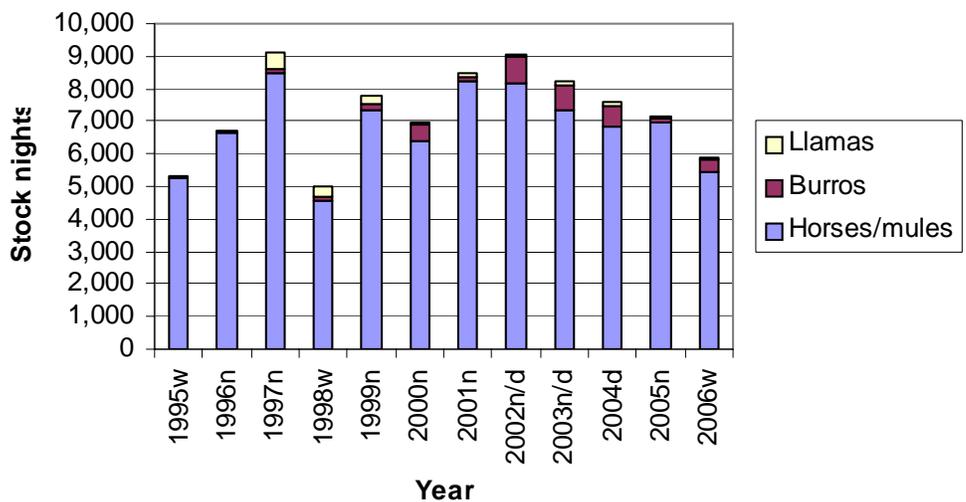


Table 4. Monthly Use and Percentage of Entire Season, May-October 1995-2006

	May		June		July		August		Sept.		Oct.	
	Nights	%	Nights	%	Nights	%	Nights	%	Nights	%	Nights	%
2006w	0	0	331	5.6	1223	20.8	3025	51.6	1260	21.5	26	.4
2005n	0	0	252	3.51	1604	22.36	3528	49.17	1717	23.93	74	1.1
2004d	0	0	594	7.8	2559	33.69	3057	40.24	1330	17.51	40	.5
2003n/d	0	0	424	5.4	2603	31.7	3348	40.7	1634	19.8	209	2.5
2002n/d	0	0	880	9.7	3058	33.7	3118	34.4	1879	20.7	141	1.6
2001n	6	0.1	536	6.6	2190	26.8	3730	45.7	1418	17.4	289	3.5
2000n	0	0	1134	16.3	2005	28.8	2492	35.7	1240	17.8	100	1.4
1999n	0	0	663	8.5	2133	27.4	3243	41.7	1537	19.8	204	2.6
1998w	0	0	67	1.3	508	10.2	2762	55.5	1439	28.9	64	1.3
1997n	8	0.1	574	6.3	2012	22.1	3739	41.1	1750	19.2	257	2.8
1996n	0	0	351	5.2	1749	26.1	2929	44.0	1431	21.3	248	3.7
1995w	0	0	0	0	312	4.7	2565	38.5	2135	32.1	311	4.7

Number of Areas Receiving Use. The number of areas used may be used as an indication of the dispersion of stock use. Variation in the number of areas used, however, may also reflect differences in reporting. Use was reported for a total of 90 forage areas in 2006, compared to 99 in 2005 (a list showing the number of commercial, private, and administrative stock nights for each forage area is presented in Appendix 2). **Commercial** users reported use in a total of 60 areas, **private** parties in 38 areas, and **administrative** users in 36 areas.

Table 5. Number of forage areas used, by user group.

	<u>Commercial</u>	<u>Private</u>	<u>Administrative</u>	<u>Overall</u>
2006w	60	38	36	90
2005n	75	25	38	99
2004d	73	50	50	110
2003n/d	65	61	47	113
2002n/d	69	58	46	109
2001n	78	49	46	115
2000n	72	53	52	113
1999n	63	31	46	92
1998w	52	43	35	93
1997n	73	92	44	135
1996n	91	27	33	107
1995w	60	62	17	96
1994d	105	76	37	139

Areas of High Use. Based on reported stock nights, the following forage areas received heavy use in 2006. Prior to 1998, heavy use was defined as use exceeding 75% of the estimated carrying capacity of a meadow. Until the system of estimating carrying capacity of these meadows is further developed and refined, heavy use will be defined based solely on the absolute amount of use an area receives. Note that forage areas differ in their ability to withstand use and thus may be heavily used but not overgrazed. These meadows should, however, be watched closely for signs of deterioration.

The twenty five forage areas that received the heaviest use overall (by all user groups combined) are shown in Table 9. The **ten** areas most heavily used (total number of stock nights) in 2006 by each user group (commercial, private, and administrative) are presented in the three tables following. Note that these numbers are for all use, including those nights for which supplemental feed was provided.

Table 6. Stock nights in the 25 most heavily used areas in 2006 for commercial, private and administrative use combined, with previous years use numbers included for reference.

	2006	2005	2004	2003	2002	2001	2000	1999
84-2 Lower Rock Ck Xing Mdw	367	345	133	267	203	11	28	105
69-5.1 Scaffold Mdw Tourist Past	244	309	272	86	118	324	348	401
79-1 Cold Springs Camp Area	243	120	92	110	91	151	72	0
72-8 Sugarloaf Meadow	224	36	51	123	195	128	200	230
77-5 Redwood Meadow	213	89	130	81	315	64	100	116
83-8 Sandy Meadow	199	160	134	100	195	131	148	108
71-3.2 Middle Ranger Meadow	196	100	85	289	0	0	3	3
66-3 Junction Meadow	183	167	163	219	132	190	178	64
70-5 Big Wet Meadow	180	8	52	109	354	275	21	83
58-2 Woods Creek Crossing	156	284	205	233	153	202	0	44
83-5 Lower Crabtree Meadow	155	393	46	33	176	112	156	71
83-4 Upper Crabtree Meadow	154	58	242	267	234	309	129	244
81-1 Wright Creek Drainage	147	66	145	158	103	104	9	34
87-1 Upper Big Arroyo	144	77	14	9	8	0	86	0
39-4 Ladder Camp	136	26	21	16	27	4	20	0
90-9 Lower South Fork Meadow	125	0	30	83	60	3	20	0
90-5.1 Hockett Meadow	121	132	354	323	365	342	81	380
86-2 Upper Funston Meadow	121	164	177	51	163	114	72	322
90-10 South Fork Meadow	116	119	102	289	323	138	140	60
86-7 Lewis Camp Lg. Past.	112	218	371	530	517	674	584	805
86-5 Lower Funston Meadow	102	150	59	78	165	91	30	217
56-2 Twin Lakes Area	98	8	18	17	5	99	11	0
67-1 East Lake Meadow	95	4	222	149	149	110	106	101
90-13 Slim's Meadow	88	0	67	180	89	0	138	0
83-7 Lower Whitney Creek	82	65	0	0	12	0	0	0

Table 7. Number of commercial stock nights in the ten areas receiving the heaviest commercial use in 2006, with previous years use numbers provided for reference.

	2006	2005	2004	2003	2002	2001	2000	1999
84-2 Lower Rock Ck Xing Mdw	233	312	95	152	100	11	7	0
72-8 Sugarloaf Meadow	190	26	36	75	99	0	72	20
70-5 Big Wet Meadow	164	8	28	92	163	212	6	62
66-3 Junction Meadow	143	146	147	122	119	161	142	58
83-5 Lower Crabtree Meadow	142	366	31	33	124	10	61	11
39-4 Ladder Camp	136	26	21	16	27	4	20	0
83-4 Upper Crabtree Meadow	116	58	158	215	168	307	111	229
81-1 Wright Creek Drainage	112	39	139	149	99	104	9	24
58-2 Woods Creek Crossing	108	247	79	159	90	13	0	0
90-9 Lower South Fork Meadow	95	0	30	30	12	0	0	0

Table 8. Number of private stock nights in the ten areas receiving the heaviest private use in 2006, with previous years use numbers included for reference.

	2006	2005	2004	2003	2002	2001	2000	1999
71-3.2 Middle Ranger Meadow	196	43	81	281	0	0	0	0
69-5.1 Scaffold Mdw Tourist Past	152	18	66	63	62	102	133	139
90-10 South Fork Meadow	47	0	0	130	77	20	18	0
86-2 Upper Funston Meadow	44	16	96	28	86	37	48	63
90-9 Lower South Fork Meadow	43	0	0	53	48	3	20	0
83-7 Lower Whitney Creek	42	0	0	0	12	0	0	0
81-1 Wright Creek Drainage	35	27	0	9	4	0	0	10
72-8 Sugarloaf Meadow	34	10	15	48	91	128	122	207
71-1 Austin Camp Meadows	33	17	114	5	51	50	0	0
84-6 Siberian Outpost	32	9	0	14	7	0	0	0

Table 9. Number of administrative stock nights in the ten areas receiving the heaviest administrative use in 2006, with previous years use numbers included for reference.

	2006	2005	2004	2003	2002	2001	2000	1999
79-1 Cold Springs Camp Area	243	120	92	96	91	151	72	0
77-5 Redwood Meadow	173	89	94	55	303	64	100	104
87-1 Upper Big Arroyo	144	77	0	0	0	0	72	0
83-8 Sandy Meadow	123	112	128	100	195	130	144	108
90-5.1 Hockett Meadow	117	132	273	226	336	342	79	374
84-2 Lower Rock Ck Xing Mdw	103	20	0	96	78	0	0	96
69-5.1 Scaffold Mdw Tourist Past	88	185	186	20	26	205	189	163
90-13 Slim's Meadow	88	0	67	180	89	0	138	0
86-7 Lewis Camp Lg. Past.	88	210	363	522	499	630	551	492
90-5.2 Hockett Pasture	78	55	164	66	104	24	308	98

Discussion

Reported recreational and administrative stock use during the wet summer of 2006 totaled **5,867 stock nights**,

or 6,997 animal unit nights. This represents a decrease of 18% compared to 2005, which had a total of 7,115 stock nights reported. Relative to 2005, reported commercial use decreased by 25%, while reported private use increased by 37%. Administrative use decreased by 22% over the previous year. Wet conditions, which led to delayed opening dates for grazing in park meadows, limited access over passes due to late lying snow, and challenging river crossings likely account for the drop in commercial and administrative use. The increase in private use likely represents improved reporting rather than an actual change in use, although wet conditions could have contributed to any actual decline. Staffing of the Hockett Ranger Station for a portion of the season appears to have resulted in a dramatic increase in reporting of private use from that patrol area.

Relative to 2005, five commercial outfitters (Cedar Grove, Cottonwood, Glacier, Golden Trout, and Sequoia-Kings) each reported significant decreases in use. Although overall commercial use declined by nearly 25% in 2006, four outfitters (Balch Park, Bishop, Horse Corral, and Three Corner Round) each reported moderate increases in use. Notably, Rock Creek Pack Station reported 970 nights in 2006, remaining stable relative to the 990 nights reported in 2005. This marked the second consecutive year that Rock Creek Pack Station shifted its use southward into the Kern drainage of Sequoia National Park, likely in response to use limits imposed by the USFS in the John Muir and Ansel Adams Wilderness areas (as part of the Golden Trout Wilderness, Cottonwood Pass is not subject to the same restrictions and thus provides an alternate entry point into the parks). This shift southward, combined with use by Cottonwood Pack Station and the effective closure of Upper Crabtree Meadow due to wet conditions for the second year running, resulted in continued high use at Lower Crabtree Meadow (from 46 nights in 2004 to 393 nights in 2005; declining to 155 nights in 2006) and in all of the primary Rock Creek meadows as well (Lower Rock Creek Crossing, Nathan's, and Pinned-up Meadow).

Reported use of supplemental feed in lieu of grazing increased substantially among all users relative to 2005. Overall, reported use of supplemental feed increased by 124%. Horses and mules remained the primary type of stock used, accounting for 93% of total use. Llama use decreased slightly relative to previous years, but continued to account for less than 1% of total use. Reported burro use increased, but still accounted for only 7% of total stock use; this reflects an increase in activity by the primary user of burros in the park, Three Corner Round.

Administrative use continued to be focused on meadows adjacent to stock supported ranger stations (Kern and Roaring River) and those areas serving as foci for trail crews (Cold Springs Camp, Redwood Meadow, Sandy Meadow, Hockett Meadow, and Lower Rock Creek Crossing.) Use at Lewis Camp Large Pasture (adjacent to the Kern Ranger Station) declined sharply in 2006; combined with the wet conditions and decreased use in 2005, this resulted in continued improvement in site conditions there.

Significant increases in use relative to 2005 were seen in a number of areas, including the following:

Kings Canyon

- Evolution Meadow (reflecting the temporary closure of McClure Meadow)
- Ladder Camp
- Glacier Valley Meadows
- Twin Lakes Area
- East Lake Meadow
- Big Wet Meadow
- Middle Ranger Meadow
- Sugarloaf Meadow

Sequoia

- River Valley
- Redwood Meadow
- Cold Springs Camp Area
- Wright Creek Drainage
- Upper Crabtree (no grazing; animals tied and fed)
- Upper Big Arroyo
- Big Arroyo Patrol Cabin
- Slim's Meadow
- Green Meadow
- Lower South Fork Meadow

Meadows of concern which showed a significant decrease in use relative to 2005 included the following:

Kings Canyon

McClure Meadow (closed to grazing in 2006)
Colby Meadow
Simpson Meadow
Shorty's Meadow
Woods Creek Crossing
Scaffold Meadow Tourist Pasture

Sequoia

Lower Crabtree
Nathan's Meadow
Lower Funston Meadow
Kern Bridge Camp
Lewis Camp Large Pasture
Middle Rattlesnake Canyon

Data management. As discussed above, lack of response and/or a mechanism that elicits a response from private stock users remains a concern. Trailhead personnel are now consistently indicating on each permit whether it was being issued to a commercial or private stock group; this improves our ability to identify private users and thus limit the number of redundant information requests sent out to clients of commercial packers. Commercial packers are required to include the name of the client who received the permit so that we can better correlate field observations with reported use. Both of these practices will be continued in 2007, as well as full implementation and enforcement of the monthly reporting requirement of both day and overnight use. This will allow us to better track stock use patterns overall, and streamline the process of winnowing through the permit database. Note that although day use by commercial packers was reported in both 2005 and 2006, staffing shortfalls have resulted in an inability to digitize or summarize those data.

Late Commercial Use Authorization (CUA) reports remained a significant factor in the delayed preparation date of this summary, despite requiring that reports be submitted on a monthly basis in 2006. The concessions staff was instrumental in obtaining reports from chronically late permit holders. Wilderness and trailhead rangers are asked to continue to maintain their stock use observation forms, which are critical for verifying use reports and gaining a more realistic estimate of actual use for specific forage areas.

Note that this report supercedes all previous stock use reports from Sequoia and Kings Canyon National Parks, as additional data are acquired and errors are corrected.

As this report relies on diverse sources of data, and as the author is certainly not immune to the making of errors, please submit corrections or comments regarding any questionable portions of this report. If you are aware of use that has not been captured, or if it appears that use has been either under- or over-reported, please do not hesitate to bring it to my attention. Even if it is not possible to determine the correct number, it is helpful to annotate areas of uncertainty wherever they occur. I will endeavor to update the stock use database as corrections are submitted; note that this practice results in variations in the totals from one year to the next as additional data become available.

Aknowledgements. I wish to thank all of the stock users who took the time to send in their reporting forms this year, and also the wilderness and trailhead rangers who kept track of stock use nights in their areas. These observations are essential to monitoring use patterns. Funding for the seasonal meadow monitoring position was provided in part by the concessions office, and this support is greatly appreciated. Molly Schroer tenaciously pursued truant reports, a task that is deeply appreciated. I also wish to recognize the additional effort made by trailhead rangers to annotate permits for us, and by the wilderness office staff who set aside packstock related permits for us.

Appendix 1. Samples of stock use reporting forms used during 2006; the small card is distributed to private parties with their wilderness permit, and is stamped and addressed for ease of return.

STOCK USE REPORTING CARD *Sequoia and Kings Canyon National Parks*
 Please circle one: Horses/mules Burros Llamas
 Please circle one: Commercial Packer Private Party NPS Stock

Date	Forage Area Used That Night (name of meadow, camp, etc.)	Forage Area #	# of stock	# of nights	# of people

Form completed by (please print): _____ Date: _____
 Address: _____ Phone: _____
 One location per line. Please be specific in naming forage areas. Please return by Oct. 31.

Front:

UNITED STATES
 DEPARTMENT OF THE INTERIOR *AN EQUAL OPPORTUNITY EMPLOYER*
 NATIONAL PARK SERVICE
 SEQUOIA AND KINGS CANYON NATIONAL PARKS
 47050 GENERALS HIGHWAY
 THREE RIVERS, CALIFORNIA 93271

Official Business
Penalty For Private Use \$300

Wilderness Office
 Sequoia and Kings Cyn National Parks
 47050 Generals Highway
 Three Rivers, CA 93271

**2006 Commercial Pack and Saddle Stock Use Report
Sequoia and Kings Canyon National Parks**

Note: this form replaces the previous Overnight Stock Use Report for Commercial Pack Stations and Incidental Business Permit Holders, and includes *all* packstock use whether or not grazing occurs. Please return on a monthly basis to: Concessions Office, Sequoia and Kings Canyon National Parks, Three Rivers CA 93271 by the tenth of the month; e.g. report all July use by August 10.

Trip #	Date	Name of Client	Type of Trip*	# Clients	# Packers	# Saddle Stock	# Pack Stock	Destination/ Meadow Area Grazed	Meadow ID# (if overnight)	# nights at this location	Grazed? (Y/N)	Notes (pellets fed, trail conditions, etc.)
1	8/2	Example--Smith	S in	3	1	4	4	Upper Rock Creek	--	0	N	
2	8/5	Example--Smith	S out	3	1	4	2	Upper Rock Creek	--	0	N	
3	8/10	Example--Jones	T	4	1	5	4	Nathan's Meadow	85-10	1	N	Pellets fed
	8/11	Example--Jones	T	4	1	5	4	Upper Crabtree Meadow	83-4	2	Y	
	8/13	Example--Jones	T	4	1	5	4	Rock Creek Lake Meadow	85-8	1	Y	
4	8/15	Example--White	D in	7	1	0	4	Upper Kearsarge	--	0	N	Drop only; no pickup

D In – Dunnage In **D Out** – Dunnage Out Dunnage trips : Dunnage is delivered and/or picked up; clients are on foot. Includes resupply trips
S In – Spot In **S Out** – Spot Out Spot trips: Clients and their dunnage are delivered and/or picked up; clients are on horseback
T – Travel Trip Clients and packers travel together for the duration of the trip

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
28-1 Piute Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	30-0-0 30	0-0-0 0
28-2 Aspen Meadow	14-0-0 14	5-0-0 5	10-0-0 10	0-0-0 0	0-16-0 16	6-0-0 6	0-0-0 0
28-3 Cony Camp	4-0-0 4	2-0-28 30	16-2-57 75	4-0-0 4	31-0-0 31	8-0-22 30	36-4-96 136
28-4 Franklin-Montgomery Mdw	10-0-0 10	21-0-0 21	12-0-12 24	0-0-0 0	12-0-0 12	30-0-12 42	9-0-0 9
28-6 Hell-For-Sure Jct Mdws	0-0-0 0	3-0-0 3	16-0-0 16	0-0-0 0	10-15-0 25	46-0-0 46	3-0-0 3
28-7 Upper Goddard Cyn	18-0-0 18	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-1 Evolution Meadow	44-0-0 44	0-0-0 0	0-0-0 0	117-0-0 117	177-17-32 226	150-42-6 198	161-6-0 167
33-2 McClure Meadow	0-0-0 0	113-0-0 113	26-4-11 41	58-0-16 74	27-0-11 38	43-3-32 78	72-10-12 94
33-3 Colby Meadow	67-0-0 67	103-50-20 173	153-0-0 153	6-0-0 6	44-0-0 44	30-7-0 37	48-3-0 51
33-4 Darwin Meadow	14-0-0 14	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0	30-2-0 32	14-0-14 28
33-5 Lake 11,106	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-6 Darwin Bench	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
33-8 McGee Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0
33-9 Emerald Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
34-1 Evolution Lake	0-0-0 0	0-0-0 0	5-0-0 5	14-0-0 14	0-3-0 3	0-0-0 0	0-0-0 0
34-2 Sapphire Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
34-3 Huxley Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
38-1 Upper Blue Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
38-2 Blue Canyon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-8 8	6-0-15 21	0-0-0 0	0-0-0 0
38-3 Lower Blue Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-1 Upper LeConte Canyon	0-0-0 0	9-0-0 9	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4
39-2 Big Pete Meadow	45-0-0 45	74-0-0 74	89-0-51 140	96-0-0 96	137-0-0 137	74-0-10 84	13-0-7 20
39-3 Little Pete Meadow	0-4-12 16	6-0-20 26	45-11-0 56	0-0-14 14	15-0-45 60	48-0-0 48	89-2-38 129
39-4 Ladder Camp	136-0-0 136	26-0-0 26	21-0-0 21	16-0-0 16	27-0-0 27	4-0-0 4	20-0-0 20
39-5 Grouse Meadow	14-0-0 14	0-0-0 0	6-0-0 6	19-0-0 19	8-0-20 28	13-0-18 31	9-10-5 24
39-6 Palisade Creek Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
39-7 Stillwater Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
39-8 Deer Meadow	7-0-0 7	44-0-14 58	0-0-60 60	19-0-0 19	5-0-10 15	32-0-0 32	9-8-9 26
42-1 Dusy Creek	7-0-0 7	0-0-0 0	5-0-0 5	17-0-0 17	11-0-0 11	0-0-0 0	5-0-0 5
42-2 Lower Dusy Basin	14-0-0 14	20-0-0 20	10-0-0 10	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
42-3 Upper Dusy Basin	0-0-0 0	19-3-0 22	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
42-4 Rainbow Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
45-1 Palisade Lakes	0-0-0 0	66-0-0 66	12-2-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4
46-1 Upper Basin Meadows	0-5-0 5	80-0-0 80	0-0-0 0	21-0-0 21	0-0-0 0	133-0-0 133	48-0-0 48
46-2 South Fork Kings River	25-0-0 25	73-0-0 73	12-0-0 12	40-0-0 40	21-0-0 21	43-0-0 43	0-4-16 20
46-3 Bench Lake/JMT Jct.	0-0-0 0	4-0-0 4	19-4-0 23	31-0-0 31	8-10-6 24	37-0-0 37	36-2-0 38
46-4 Bench Lake	0-0-0 0	0-0-0 0	0-0-0 0	5-0-0 5	0-0-0 0	7-0-0 7	0-4-0 4
46-5 Taboose Pass Area	0-0-0 0	0-0-0 0	5-0-0 5	17-0-0 17	0-0-0 0	6-0-0 6	0-0-0 0
46-6 Lake Marjorie	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	9-0-0 9
47-1 Cartridge Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-2 Lake Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-3 Marion Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-4 Cataract Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-5 Mdws SW of Bench Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
47-8 Muro Blanco	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
51-1 Simpson Meadow	56-0-21 77	73-0-75 148	127-0-92 219	46-0-60 106	229-0-152 381	34-0-149 183	66-0-199 265
51-2 Tehipite Valley	28-0-0 28	0-0-0 0	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0	0-8-0 8
51-3 Gnat Meadow	0-0-0 0	0-0-0 0	0-0-0 0	10-0-0 10	0-0-0 0	0-0-0 0	8-0-0 8
51-4 Hay Meadow	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-1 Volcanic Lakes Basin	0-0-0 0	0-0-0 0	5-0-0 5	16-0-0 16	0-0-0 0	0-0-0 0	60-0-0 60
52-2 Kennedy Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-3 Upper Kennedy Canyon Mdw	0-0-0 0	0-0-24 24	0-0-0 0	0-0-0 0	0-0-0 0	0-18-0 18	0-0-0 0
52-4 Kennedy Pass Meadows	0-0-0 0	0-0-0 0	0-0-93 93	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-5 West Kennedy Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
52-6 Frypan Meadow	0-0-2 2	0-0-0 0	0-0-0 0	14-0-0 14	0-0-0 0	0-0-0 0	0-0-0 0
52-13 Jerkey Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-14 Upper end of Hotel Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
52-15 Hotel Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-1 Horseshoe Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-2 Horseshoe Lakes Turnoff	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-3 State Lakes Area	0-0-0 0	0-0-0 0	0-0-0 0	34-0-0 34	0-0-0 0	0-0-0 0	8-0-0 8
53-4.1 Dougherty Meadows	0-0-0 0	0-0-6 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-4.2 Glacier Valley Meadows	56-0-0 56	8-0-20 28	13-0-0 13	116-40-0 156	0-24-44 68	74-32-0 106	30-0-0 30
53-5 Fallen Moon Meadow	28-0-0 28	36-0-0 36	62-0-0 62	65-12-0 77	68-35-0 103	87-27-0 114	0-0-0 0
53-6 Volcanic Trail Junction	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
53-7 Shorty's Meadow	0-0-0 0	92-0-6 98	65-0-0 65	53-0-0 53	70-0-0 70	97-0-0 97	40-4-0 44
53-8 Granite Pass Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-1 Granite Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
54-2 Granite Basin Meadows	0-0-8 8	70-0-0 70	43-0-0 43	50-0-13 63	38-0-8 46	21-0-0 21	6-12-2 20
54-3 Grouse Lake	0-0-0 0	30-0-0 30	0-0-0 0	0-0-0 0	0-36-0 44	11-0-0 11	0-0-0 0
54-4 Halfmoon Meadow	14-0-0 14	0-0-0 0	0-0-0 0	48-0-0 48	0-0-0 0	0-18-0 18	0-0-0 0
54-5.1 Lower Tent Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0
54-5.2 Upper Tent Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
55-1 Woods Creek Jct Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	175-0-15 190	25-0-20 45
55-2 U. Paradise Valley Mdw	0-8-0 8	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0
55-3 L. Paradise Valley Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4
56-1 Mdws S. of Pinchot Pass	0-0-0 0	0-0-0 0	135-0-0 135	0-0-0 0	80-0-0 80	13-0-0 13	57-0-0 57
56-2 Twin Lakes Area	90-0-8 98	8-0-0 8	12-0-6 18	17-0-0 17	5-0-0 5	0-1-98 99	7-4-0 11
56-3 White Fork Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	13-0-0 13	0-0-0 0
57-1 Woods Lake Meadows	0-0-0 0	20-0-0 20	75-0-0 75	109-0-0 109	74-0-0 74	18-0-0 18	0-0-0 0
58-1 Castle Domes Meadow	56-0-10 66	64-0-14 78	40-0-76 116	21-0-0 21	56-0-6 62	122-0-5 127	0-4-0 4

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
58-2 Woods Creek Crossing	108-8-40 156	247-0-37 284	79-0-126 205	159-5-69 233	90-0-63 153	13-63-126 202	0-0-0 0
58-3 Baxter Creek Drift Fence	27-0-0 27	53-7-0 60	51-4-0 55	28-5-0 33	121-0-0 121	48-0-0 48	43-0-0 43
59-1 Baxter Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
59-2 Baxter Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
60-1 Gardiner Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-1 Cotter Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-2 Fjord Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
61-3 Lower 60 Lakes Basin Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
62-1 Rae Lakes Basin Meadows	0-8-0 8	0-0-0 0	6-0-0 6	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0
62-2 Dragon Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
63-1 Charlotte Creek Meadows	0-0-0 0	0-14-0 14	53-12-0 65	91-24-3 118	48-10-0 58	29-0-0 29	66-0-0 66
63-2 Charlotte Lake Lower Mdw	7-0-0 7	37-0-0 37	0-0-0 0	0-0-0 0	0-0-0 0	34-0-0 34	0-0-7 7
63-3 Charlotte Lake Upper Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
64-1 Kearsarge Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
64-2 Bullfrog Lake Meadows	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0
65-1 Vidette Meadow	9-0-0 9	46-0-0 46	0-8-0 8	0-0-0 0	0-0-0 0	0-1-0 1	0-0-0 0
65-2 East Vidette Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	13-0-0 13	12-0-0 12
65-3 Upper Vidette Meadows	0-0-0 0	64-0-0 64	12-0-0 12	45-4-0 49	0-0-0 0	33-0-0 33	58-0-0 58
65-4 Upper Bubbs Creek	59-0-0 59	12-12-0 24	239-4-0 243	218-5-23 246	96-0-0 96	6-5-0 11	50-0-0 50
65-5 Center Basin	0-0-0 0	0-0-0 0	0-1-0 1	0-0-0 0	0-0-0 0	12-0-0 12	0-0-0 0
66-1.1 Sphinx Creek Junction	20-0-0 20	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0
66-1.2 Anglemorm Meadow	0-0-0 0	0-3-0 3	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
66-2 Charlotte Creek Confluence	0-0-0 0	0-0-0 0	0-0-0 0	0-7-0 7	0-0-0 0	0-0-0 0	0-0-0 0
66-3 Junction Meadow	143-0-40 183	146-3-18 167	147-4-12 163	122-3-94 219	119-0-13 132	161-12-17 190	142-21-15 178
67-1 East Lake Meadow	95-0-0 95	4-0-0 4	210-12-0 222	131-18-0 149	133-16-0 149	105-5-0 110	106-0-0 106
67-2 Ouzel Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
67-3 Reflection Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
68-1 Sphinx Creek Crossing	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2
69-2 West Side Roaring River	0-2-71 73	0-0-95 95	0-0-16 16	0-0-97 97	0-0-75 75	0-0-22 22	0-14-13 27
69-3 JR Pasture	0-0-58 58	6-0-57 63	10-0-52 62	0-0-19 19	0-0-25 25	0-2-27 29	0-0-49 49
69-4 Lackey Pasture	0-8-16 24	0-0-25 25	0-19-36 55	3-2-16 21	0-0-10 10	0-8-12 20	0-0-47 47
69-5.1 Scaffold Mdw Tourist Past	4-152-88 244	106-18-185 309	20-66-186 272	3-63-20 86	30-62-26 118	17-102-205 324	26-133-189 348
69-5.2 Grasshopper Meadow	0-24-0 24	76-32-0 108	63-0-28 91	0-0-6 6	0-0-20 20	48-0-8 56	30-0-12 42
69-6.1 Moraine Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-5-0 5	0-0-0 0	0-0-0 0	0-0-0 0
69-6.2 Moraine Stringers	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
69-6.3 Metroyhoy Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-1.1 Grasshopper Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-6 6	0-0-0 0	0-0-22 22	0-27-0 27
70-1.2 Brewer Stringers	40-0-0 40	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-2 Barton Meadow and Stringer	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
70-3 False Cement Table Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-14 14	0-0-20 20	0-0-0 0	0-20-6 26
70-4 Cement Table Meadow	40-5-0 45	48-0-0 48	0-22-0 22	0-4-0 4	0-12-0 12	10-55-0 65	18-145-9 172
70-5 Big Wet Meadow	164-0-16 180	8-0-0 8	28-24-0 52	92-15-2 109	163-171-20 354	212-27-36 275	6-0-15 21
70-6 Grand Palace Hotel	2-4-38 44	0-20-0 20	7-12-53 72	0-14-63 77	0-15-43 58	0-0-20 20	0-41-10 51
70-7 Colby Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
71-1 Austin Camp Meadows	16-33-0 49	0-17-0 17	68-114-0 182	3-5-12 20	0-51-25 76	0-50-22 72	0-0-33 33
71-2 Grave Meadow	0-0-0 0	0-0-0 0	0-24-0 24	32-42-0 74	0-0-0 0	20-0-0 20	42-25-0 67
71-3.1 Lower Ranger Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-9-0 9	0-0-0 0	0-0-4 4	0-40-49 89
71-3.2 Middle Ranger Meadow	0-196-0 196	57-43-0 100	0-81-4 85	0-281-8 289	0-0-0 0	0-0-0 0	0-0-3 3
71-4 Upper Ranger Meadow	40-0-0 40	42-0-0 42	0-0-0 0	0-0-8 8	0-20-6 26	0-0-6 6	0-0-3 3
71-5 Upper Deadman Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-1 Pond Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-2 Catch'em Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-3 Willow Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-4 Mitchell Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
72-5 Quartz Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-6 Williams Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0
72-7 Comanche Meadow	0-6-0 6	0-6-0 6	11-7-0 18	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-8 Sugarloaf Meadow	190-34-0 224	26-10-0 36	36-15-0 51	75-48-0 123	99-91-5 195	0-128-0 128	72-122-6 200
72-9 Little Sugarloaf Meadow	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-10 Sugarloaf Creek Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-25-18 43	0-21-0 21
72-11 Honeymoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-12 Boggy Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-13 Crowley Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-14 Box Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-15 Ellis Meadow Area	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-16 Paradise Meadow Area	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-17 West Fork Ferguson Ck	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-29-0 29	0-0-0 0	0-0-0 0
72-18 Ferguson Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-19 Long Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-20 Lewistall Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-21 Little Jack Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
72-22 Scenic Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-1 Sheep Camp Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-2 Seville Lake	0-3-4 7	0-14-0 14	0-0-0 0	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0
73-3 Lovelace Cabin Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
73-4 Lost Lake	0-3-4 7	0-0-0 0	0-0-4 4	0-39-0 39	0-12-0 12	0-0-0 0	0-0-0 0
73-5 Ranger & Beville Lakes	12-0-4 16	0-8-10 18	0-20-0 20	22-0-0 22	0-24-0 24	42-82-91 215	0-10-0 10
74-1 Twin Lakes	0-0-0 0	0-0-0 0	0-0-2 2	0-0-0 0	0-6-0 6	0-0-0 0	0-0-0 0
74-2 Pattee Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-3 Clover Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-4 Cahoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
74-5 Silliman Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
74-6 Willow Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
75-1 Lone Pine Meadows	0-0-0 0	40-0-0 40	0-6-0 6	0-5-0 5	54-12-0 66	5-0-0 5	0-0-0 0
75-2 Tamarack Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
75-3 Table Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
76-1 Emerald Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
76-2 Pear Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-1 Bearpaw Meadow	0-0-0 0	2-0-0 2	11-14-0 25	0-0-0 0	0-27-0 27	0-0-0 0	0-0-0 0
77-2 Little Bearpaw Meadow	0-0-0 0	22-0-0 22	0-0-0 0	74-9-0 83	0-0-0 0	0-0-0 0	0-0-0 0
77-3 River Valley	41-0-0 41	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-4 Granite Ck, Strawberry Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
77-5 Redwood Meadow	38-2-173 213	0-0-89 89	36-0-94 130	15-11-55 81	6-6-303 315	0-0-64 64	0-0-100 100
77-6 Cliff Creek	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-3-0 3	0-3-0 3	0-0-0 0
77-7 Pinto Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-19-18 37	31-0-0 31	16-0-0 16	17-2-12 31
78-1 Hamilton Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-3 3
79-1 Cold Springs Camp Area	0-0-243 243	0-0-120 120	0-0-92 92	0-14-96 110	0-0-91 91	0-0-151 151	0-0-72 72
79-2 Milestone Basin	0-14-0 14	0-18-0 18	0-0-3 3	0-7-0 7	0-34-0 34	0-0-0 0	0-0-0 0
79-3 Rockslide Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
79-4 Lower Kern-Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	16-0-0 16	0-0-228 228
79-5 Gallats Lake Meadows	18-0-0 18	0-0-0 0	31-0-145 176	0-0-0 0	0-0-0 0	0-0-0 0	0-0-9 9
79-6 Upper Kern-Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-84 84	0-0-0 0	0-0-52 52	0-0-0 0
80-1 Bighorn Plateau Lake Mdw	0-0-0 0	0-0-0 0	0-0-0 0	30-0-0 30	0-0-0 0	0-0-0 0	0-0-0 0
80-2 Tyndall Ck/JMT Frog Ponds	0-0-0 0	0-6-72 78	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
80-3 Tyndall Creek Meadows	39-24-0 63	61-18-12 91	62-16-72 150	145-23-72 240	121-9-65 195	243-37-91 371	134-3-12 149
80-4 Sheep Camp Meadows	0-0-0 0	11-0-0 11	72-0-0 72	140-5-0 145	14-0-0 14	16-0-0 16	0-0-0 0
80-5.1 Lake South America	0-0-0 0	0-0-0 0	0-0-0 0	11-0-0 11	48-0-0 48	0-0-0 0	0-6-0 6
80-5.2 Lake S. Americal Col Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

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Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
80-6 Kern Headwaters	0-0-0 0	69-0-0 69	0-0-0 0	57-0-0 57	11-0-0 11	12-0-0 12	72-0-0 72
81-1 Wright Creek Drainage	112-35-0 147	39-27-0 66	139-0-6 145	149-9-0 158	99-4-0 103	104-0-0 104	9-0-0 9
81-2.1 Wallace Ck/JMT Jct Mdw	0-0-0 0	12-0-0 12	12-0-0 12	0-0-0 0	0-0-0 0	5-1-0 6	0-0-0 0
81-2.2 Wallace Creek Meadows	58-0-0 58	110-0-0 110	0-0-0 0	0-0-0 0	20-0-0 20	14-0-0 14	0-0-0 0
81-2.3 Wallace Ck Waterfall Mdw	0-0-0 0	0-0-0 0	5-5-0 10	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
81-2.4 Marshy Meadows	0-0-0 0	33-0-0 33	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
81-2.5 Wallace Ck Closed Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
82-1 Junction Meadow on the Kern	6-0-0 6	26-0-0 26	0-38-0 38	0-16-0 16	3-4-0 7	0-0-0 0	8-0-0 8
82-2 One mi. < Junction Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-2 2	0-0-3 3
82-3 Three mi. < Junction Mdw	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-1 Guitar Lake	0-0-0 0	0-0-0 0	0-4-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-2 Timberline Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
83-3 Crabtree R.S. Meadows	0-0-0 0	0-0-0 0	0-0-0 0	37-0-0 37	0-0-0 0	4-1-2 7	0-0-0 0
83-4 Upper Crabtree Meadow	116-0-38 154	58-0-0 58	158-44-40 242	215-14-38 267	168-26-40 234	307-0-2 309	111-18-0 129
83-5 Lower Crabtree Meadow	142-12-1 155	366-27-0 393	31-15-0 46	33-0-0 33	124-12-40 176	10-26-76 112	61-56-39 156
83-6 Crabtree Lakes Meadows	0-0-0 0	0-0-0 0	35-0-0 35	0-0-0 0	0-0-0 0	0-0-0 0	28-0-0 28
83-7 Lower Whitney Creek	40-42-0 82	65-0-0 65	0-0-0 0	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0
83-8 Sandy Meadow	76-0-123 199	48-0-112 160	6-0-128 134	0-0-100 100	0-0-195 195	0-1-130 131	4-0-144 148
84-1 Rock Creek R.S. Meadow	0-0-0 0	0-0-0 0	0-2-0 2	0-9-0 9	0-49-0 49	0-5-0 5	0-0-0 0
84-2 Lower Rock Ck Xing Mdw	224-31-103 358	312-13-20 345	95-38-0 133	152-19-96 267	100-25-78 203	11-0-0 11	7-21-0 28
84-3 Lower Rock Creek Meadows	0-0-0 0	23-0-0 23	0-0-0 0	0-0-0 0	0-0-0 0	36-3-0 39	100-0-0 100
84-4 Forgotten Canyon Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
84-5 Guyot Creek Meadows	0-1-0 1	0-0-0 0	0-0-0 0	0-0-0 0	0-1-0 1	4-0-0 4	0-0-0 0
84-6 Siberian Outpost	0-32-0 32	22-9-0 31	15-0-0 15	0-14-0 14	12-7-0 19	0-0-0 0	0-0-0 0
85-1 Sky Blue Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-2 Miter Basin Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-3 Lower Miter Basin Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
85-4 Penned-up Meadow	23-0-19 42	62-0-20 82	12-0-20 32	19-0-19 38	81-0-40 121	32-0-39 71	0-0-0 0
85-5 Upper Soldier Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2	0-0-0 0
85-6 Lower Soldier Lake Mdws	0-1-0 1	0-0-0 0	0-0-0 0	0-0-0 0	0-8-0 8	0-0-0 0	0-0-0 0
85-7 New Army Pass Jct Mdws	0-0-0 0	0-0-0 0	0-8-0 8	51-0-0 51	0-0-0 0	19-0-0 19	0-0-0 0
85-8 Lower Rock Creek Lk Mdw	12-1-0 13	59-0-0 59	129-10-20 159	41-6-0 47	0-0-0 0	63-0-0 63	21-0-0 21
85-9 Rock Creek Meadow #2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
85-10 Nathan's Meadow	58-0-10 68	117-0-0 117	47-0-19 66	46-0-19 65	24-7-20 51	103-6-90 199	52-32-63 147
86-1 Kern Bridge Camp	0-0-0 0	8-0-124 132	0-2-262 264	0-14-286 300	0-20-300 320	0-0-257 257	8-0-37 45
86-2 Upper Funston Meadow	29-44-48 121	127-16-21 164	32-96-49 177	0-28-23 51	39-86-38 163	50-37-27 114	14-48-10 72
86-3 Big Arroyo Confluence	0-0-0 0	0-0-0 0	0-7-0 7	0-0-0 0	0-0-0 0	0-0-168 168	4-0-0 4
86-4 21" Camp, Rattlesnake Cre	0-0-0 0	7-0-0 7	0-14-0 14	40-7-0 47	68-0-0 68	9-0-0 9	12-18-0 30
86-5 Lower Funston Meadow	80-22-0 102	131-0-19 150	39-16-4 59	40-38-0 78	85-80-0 165	65-26-0 91	28-2-0 30
86-6 Snake Camp, River Pasture	0-7-0 7	0-0-0 0	0-12-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-18-0 18
86-7 Lewis Camp Large Pasture	0-24-88 112	8-0-210 218	8-0-363 371	2-6-522 530	4-14-499 517	19-25-630 674	33-0-551 584
86-8 Kern Station Small Pastur	0-0-48 48	0-0-26 26	0-0-11 11	39-0-100 139	22-0-70 92	0-12-122 134	4-0-102 106
87-1 Upper Big Arroyo	0-0-144 144	0-0-77 77	8-6-0 14	0-9-0 9	0-8-0 8	0-0-0 0	14-0-72 86
87-10 Sky Parlor Meadow	0-0-0 0	22-0-36 58	0-22-3 25	0-5-0 5	8-2-36 46	0-0-0 0	0-0-0 0
87-2 Little Upper Big Arroyo	0-0-0 0	0-0-0 0	0-0-0 0	0-0-110 110	0-0-0 0	0-0-0 0	7-0-0 7
87-3 Big Arroyo Patrol Cabin	41-0-0 41	0-0-0 0	14-0-0 14	0-5-44 49	0-0-170 170	0-0-0 0	0-0-0 0
87-4 Lower Big Arroyo	0-0-0 0	12-0-0 12	0-0-216 216	0-14-0 14	0-0-5 5	0-0-0 0	10-0-152 162
87-5 Chagoopa Plateau Mdw #1	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-6 Chagoopa Plateau Mdw #2	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-7 Chagoopa Plateau Mdw #3	0-0-0 0	12-0-0 12	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-8 Chagoopa Plateau Mdw #4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
87-9 Chagoopa Plateau Treehouse	0-0-0 0	4-0-0 4	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
88-1 L. Little 5 Lks (Long Lake)	0-0-0 0	0-0-0 0	0-0-0 0	0-14-18 32	58-0-0 58	10-0-0 10	7-0-0 7
88-2 U. Little 5 Lks (R.S. Mdw)	0-0-0 0	0-0-0 0	0-0-3 3	0-0-0 0	8-3-0 11	8-3-0 11	0-4-0 4

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
88-3 Big 5 Lakes Lower Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	6-6-0 12	0-3-0 3	6-4-0 10
88-4 Big 5 Lakes Upper Mdw	0-0-0 0	24-0-0 24	0-0-0 0	0-3-0 3	16-0-0 16	16-0-0 16	22-0-0 22
88-5 Big 5 Lakes Upper Stringer	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-1 Spring Lk/Glacier Pass Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-2 Upper Lost Canyon Meadows	0-0-0 0	0-0-0 0	0-0-76 76	0-0-0 0	5-0-0 5	0-0-0 0	0-0-0 0
89-3 Lower Lost Canyon Mdws	0-0-0 0	0-0-72 72	0-0-0 0	0-14-69 83	0-0-0 0	13-0-168 181	0-0-100 100
89-4 Soda Creek Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	8-0-0 8	0-0-0 0	11-0-0 11
89-5.1 Forester Lake Bench Mdws	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-9-0 9	0-3-0 3	22-0-0 22
89-5.2 Forester Lake Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-9-0 9	0-0-0 0	0-2-0 2
89-5.3 Forester Lake Pocket Mdw	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-6 Upper Rattlesnake Canyon	0-0-12 12	0-0-26 26	0-0-8 8	0-6-36 42	29-0-6 35	0-0-0 0	4-0-3 7
89-7 Shotgun Pass Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-5 5	21-0-0 21	13-5-0 18	6-0-0 6
89-8 South Rattlesnake Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	3-0-0 3	28-0-0 28	0-0-0 0
89-9 Middle Rattlesnake Canyon	12-8-0 20	0-0-162 162	0-0-136 136	0-0-128 128	0-12-134 146	0-0-152 152	4-8-48 60
89-10 Cow Camp	0-0-0 0	0-0-6 6	0-0-0 0	0-0-3 3	0-0-0 0	0-0-0 0	0-8-85 93
89-11 Laurel Creek Basin	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-12 Crytes Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
89-13 Coyote Creek Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-1 Horse Creek Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4
90-2 Ansel Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-3 Evelyn Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-4 Cow Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-2-0 2
90-5.1 Hockett Meadow	0-4-117 121	0-0-132 132	20-61-273 354	0-97-226 323	0-8-336 365	0-0-342 342	0-2-79 81
90-5.2 Hockett Pasture	0-0-78 78	0-4-55 59	0-0-164 164	0-0-66 66	0-0-104 104	0-0-24 24	0-0-308 308
90-6 Sand Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-7 Mitchell Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-8 Tuohy Ck/S. Fk Kaweah	0-0-0 0	0-0-0 0	0-0-0 0	0-4-0 4	48-5-0 53	30-0-0 30	0-6-0 6

**Appendix 2: Reported Stock Use by Meadow Forage Area (including nights supplemental feed provided)
Commercial-Private-Administrative|Total Stock Nights**

	2006	2005	2004	2003	2002	2001	2000
90-9 Lower South Fork Meadow	82-43-0 125	0-0-0 0	30-0-0 30	30-53-0 83	12-48-0 60	0-3-0 3	0-20-0 20
90-10 South Fork Meadow	66-47-3 116	119-0-0 119	102-0-0 102	159-130-0 289	246-77-0 323	118-20-0 138	122-18-0 140
90-11 South Fork Pasture	5-16-0 21	0-0-0 0	0-28-0 28	30-92-0 122	152-28-0 180	69-38-0 107	100-0-0 100
90-12 Blossom Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-13 Slim's Meadow	0-0-88 88	0-0-0 0	0-0-67 67	0-0-180 180	0-0-89 89	0-0-0 0	0-0-138 138
90-14 Green Meadow	0-0-60 60	0-0-0 0	0-1-0 1	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-15 Tuohy Meadows	0-0-0 0	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0	0-33-0 33	0-0-0 0
90-16 Summit Meadow	0-14-0 14	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
90-17 Cyclone Meadow	0-0-0 0	0-0-0 0	14-0-0 14	0-0-0 0	4-0-0 4	0-0-0 0	0-0-0 0
90-18 Summit Lake Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-10-0 10	0-0-0 0
90-19 Quinn Meadow	0-0-3 3	0-0-8 8	0-0-5 5	0-20-11 31	0-7-33 40	0-0-2 2	0-0-7 7
91-1 Ladybug Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
91-2 Whiskey Log Camp	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
91-3 Cahoon Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-1 Monarch Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-2 Crystal Lakes, Cobalt Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
92-3 Franklin Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-5-0 5	0-13-0 13	0-0-0 0
93-1 White Chief Meadow	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
93-2 Eagle Lake	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
93-3 Mosquito Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
94-1 Mineral Lakes	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
95-1 Redwood Canyon	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0
96-1 North Fork Kaweah River	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0	0-0-0 0

