

Appendix Report VEG1:

Summary of Grazing for the South Fork McKenzie Drainage

Eric A. Miller

11 July 1994

In researching the grazing history of the South Fork McKenzie I've divided the watershed into 5 divisions which experienced similar activity: North, South, West, Rebel and Chucksney. My rationale was to provide continuity from one period of records to the next despite changes in record format, allotment herders, boundaries, names and the type of stock grazed at each.

This report is composed of several parts. I've transcribed the approximate boundaries of the allotments as they've changed through time on a uniform map (Figures 1-7). These boundaries are from the maps dating between 1921-1955 contained in the annual grazing summaries located at the Supervisor's Office in Eugene, OR. I've also provided a plastic overlay outlining my five divisions used in this summary. A description of the history of each division follows while Tables 1-5 list in chronological order the data I was able to find. These allotment descriptions list the year, the type and number of stock grazed, the permittee, the areas listed on the permit cards and my comments. These data were collected from the grazing summaries and maps located in the Willamette Nation Forest Supervisor's Office, and from the grazing records located in Cabinet #14 at the Forest Service Warehouse in Eugene (see Johnson 1985).

The numbers of stock grazed cannot be compared from year to year because the stock were often grazed on multiple allotments and the allotment boundaries periodically change to suit the current range needs. Moreover these numbers often represent the number of stock approved and not the numbers actually grazed, though these numbers are usually very similar.

General Grazing History for the Cascades

Grazing of sheep in the Western Cascades did not begin until about 1880 (Coville 1898, Rakestraw 1993). Herders drove their sheep in bands of usually 1500-2500 from ranges in eastern Oregon over the Cascade crest during the spring and into the west-side subalpine and montane meadows. In the fall, usually about mid-September they would track their sheep back over the Cascades along driveways to overwinter in eastern Oregon. Few herders lived west of the Cascade Crest. One year after the creation of the Cascade Forest Reserve in 1893 the "driving, feeding, grazing, pasturing or herding of cattle, sheep or other livestock" was prohibited in the forest reserves. It appears the policy was not strict and trespass grazing continued until 1898 when the forests were again opened to grazing under a system of permits recommended by Coville after his reconnaissance of the Cascade forest Reserve in 1897. After 1906 fees were levied for allotment use. The peak of sheep grazing in the Cascade Mountains occurred about the turn of the century (ca. 1900 [Minor and Pecor 1977]; 1909-1910 [Rakestraw 1993]). Rakestraw describes generally harmonious relations between the Forest Service and herders from 1905-1933. In the the 1930s sheep grazing became increasingly in conflict with recreational demand of the forests. The Forest Service generally gave priority to the recreationalists as far as possible though most of the conflict seems to have centered on the subalpine meadows

near the Three Sisters and the many montane lakes. In 1939 a recreation closure was effected for the McKenzie River basin from Rainbow to McKenzie Pass and along the South Fork McKenzie from Rainbow to Frissel Crossing and most of the way up Elk Creek. After World War II sheep grazing became unprofitable in the Cascades. Sheep products became cheaper from Australia and New Zealand. Moreover records as early as the turn of the century report gradual encroachment by trees into meadows. Cattle grazing in the Grasshopper/Chucksney allotments continued until 1976.

Descriptions of Division Histories

North Sheep were trailed into the North division along a driveway through the Wickiup Plains south of South Sister to the Horse Lake Ranger Station and then to the Olallie Guard Station along the present trail 3530. The Lowder Ridge was generally grazed from the west end (Yankee Mountain) to the east end (Horsepasture Mountain) (Kuhns 1917). Kuhns mentions slight pocket gopher activity in this region but no mention of rodents at Lowder Mountain where pocket gopher action today is extraordinary. Sheep were grazed primarily along the ridgetops where the best forage was. The Grazing Policy Statement for the period 1946-1950 describes the Lowder Mtn. range as follows: "Formerly grazed as three individual units, namely Rebel Rock, Lowder Mtn. and Horsepasture allotments. Conifer encroachment made it necessary to reduce the capacity of these three allotment to the grazing of only 2 bands of sheep in 1939... Elk herds estimated at two to three hundred head graze during the summer season in this area, and it has been given some weight in reducing both capacity and seasonal use. The area generally lies to the west and is isolated from heavily used

recreational areas except when the sheep are being trailed into the allotment; particular care should be exercised in routing them by Sisters Mirror Meadows, the Skyline trail, and Horse Lake to arouse as little objection by recreationalists as possible." The last sheep to graze the Lowder Ridge/Horspasture allotment was in 1942.

At Olallie Mountain and Olallie Guard Station Kuhns makes reference to invasion by lodgepole pine in 1916. "Past records indicate that the Olallie Mountain range has been in poor condition as far back as 1909 and probably the overgrazing which is responsible for the present depleted condition of parts of the range took place long before that... Erosion is also beginning to play an important part in the destruction of this range. In 1909 artificial reseeding was attempted here, and one acre each was sown to timothy, orchard grass, bluegrass, red top and awnless brome, but the experiment evidently was not a success." Sometime between Kuhns' 1916 visit and 1921 the vicinity of Olallie Guard station was closed to grazing while Olallie Mountain was closed around 1929. However the region still supported sheep until the early 1940s.

Rebel The Rebel Rock allotment has a confusing history. Early maps indicate a cattle allotment and use records indicate it variously supported 3-25 head cattle from 1915-1922 probably along the lower slopes and the McKenzie basin as the allotment is described in 1922 as "very rough except for a narrow strip by the river". Ingram's (1922) G-Report also indicates that the allotment is better suited to sheep as there was no way to trail cattle into the Pyramid Mountain-Rebel Rock range. However Ingram states that the Rebel Rock allotment was a sheep allotment before 1922 and was to be converted to cattle. The grazing permit

cards indicate the reverse; there are records of cattle before 1922 on the allotment while in 1931 the records are of sheep (no records were found between 1922 and 1931). Further, Ingram states that there is no way to reasonably trail cattle into the allotment at present as the trail from Frissel Crossing has too many switchbacks and is inadvisable. It seems plausible that before 1922 the low country along the river was used for cattle while the high slopes of Rebel Rock and Pyramid Mountain were used for sheep grazing. Cattle were trailed into the allotment along the basin of the South Fork McKenzie while sheep were trailed in along the same route described above. In 1938 the Horsepasture allotment was combined with Rebel Rock and the Lowder Ridge. The last sheep to graze the Rebel Rock allotment was in 1947.

South The grazing history of the south region is generally uncomplicated. The earliest records of sheep grazing are in 1916 (though it was undoubtedly grazed before this time) and the allotment supported approximately 2 bands of sheep until the allotment was discontinued in 1945. Kuhns reports no serious overgrazing of the allotment in 1916. The Grazing Policy Statement for the period 1946-1950 provides some insight into the later history of this region. "Horse Lake-- This formerly consisted of two units known as Packsaddle and Wildcat allotments and was grazed by a preference permittee J.W. Fisher with 2 bands of 1200 head [sheep] each. They were combined into one unit in 1940 and called the Horse Lake allotment. This action was suggested and approved by the permittee. In 1944 J.W. Fisher sold his sheep and abandoned his preference. Reduction was due primarily to conifer encroachment and resultant loss of net usable area. In recent years an added emphasis has been given to recreational use about the many lakes in the allotment... The driveway via

Nash Lake and Burnt Top Mtn. and the one west of Red Hill paralleling the Skyline trail to Horse Lake should be used to prevent conflict with recreational use along the Skyline trail from Sisters Mirror Lake to Horse Lake... They should not graze closer than 1/4 mile of upper horse Lake, Mink Lake or any of the other Lakes frequented by recreationalists."

West The West is composed variously of three cattle allotments used by local ranches. Records for the South Fork McKenzie allotment exist for the period 1920-1928 supporting between 9 and 28 head of cattle. The Indian Ridge allotment appears on the 1921 allotment map only but I found no records of its use. The Grasshopper allotment records span the period from 1915-1976 supporting between 7 and 100 head cattle. The estimated carrying capacity of the allotment was 100 head and the allotment was deemed underused for most of its history. Cattle were trailed in from the south along the North Fork of the Middle Fork Willamette River. The Grazing Policy Statement for the 5-year period 1946-1950 describes the allotment. "Conifer encroachment on the Grasshopper cattle allotment is taking its annual toll on this range but it is believed with good management of the stock on the range it will provide the number and season indicated for the next 5-year period at least. This range is used by local dependent ranch owners in the vicinity of Oakridge and should be given preference for use of this kind in the future."

Chucksney The Chucksney allotment was grazed by sheep and cattle during different periods of its history. The 5-year period 1946-1950 Grazing Policy Statement describes its history, "This allotment was grazed by cattle in its early history [until ca. 1922-

1929] and grazed by sheep for many years until 1944 when it was again reclassified to cattle grazing because of lack of demand for sheep range and upon recommendation by Ranger McFarland. Study should be given to the practicability of tracking cattle to and from the allotment via the Box Canyon Guard Station to prevent crossing and probable damage to the Grasshopper Allotment. Cattle should be kept away from the North Fork Forest Camp and Box Canyon Guard Station in trailing to and from the range [where 40 acres at the Box Canyon Guard Station were closed to grazing in 1932]".

Cattle were trailed in from the south along the North Fork of the Middle Fork Willamette River. Sheep were trailed in to Box Canyon Guard station from the Taylor Burn.

References

Coville, F.V. 1898. Forest growth and sheep grazing in the Cascade Mountains of Oregon. USDA Division of Forestry Bulletin No. 15.

Ingram, D.C. 1922. G-Reports-Cascade. Report of Grazing Inspection on Cattle Ranges on Cascade Forest.

Johnson, R.R. 1985. Historical Records Inventory for the Willamette National Forest: Forest Grazing Permits.

Kuhns, J.C. 1916. G-Reconnaissance-Cascade. Letter to the Forest Supervisor

Minor, R. and A.F. Pecor 1977. Cultural resource overview of the Willamette National Forest Western Oregon. University of Oregon Anthropological Papers No. 12.

Rakestraw, L. and M. Rakestraw. 1991. History of the Willamette National Forest. USDA Willamette National Forest, Eugene, OR.

USDA Forest Service. 1945. Grazing Policy Statement 5-year period 1946-1950. Willamette National Forest Supplement to the Forest Grazing Plan. Willamette National Forest Supervisor's Office. Eugene, OR.

Table 1. North Page 1

South Fork McKenzie allotments					
North					
Year	S&G	C&H	Permittee	Area	Comment
<1909					Kuhns (1917) reference to range abuse at Olallie Guard Station
1909					Kuhns (1917) reference to reseeding experiments at Olallie Guard Station
1916	?		Connolly	Lowder	
1916	4200		Fisher	Olallie	
1916		10	Belknap	E. Fork McKenzie	
1917	?		Connolly	Olallie	5000 on Horsepasture/Olallie/Lookout
1917		15	Belknap	E. Fork McKenzie	
1917					Kuhns (1917) reference to conifer encroachment in Olallie Allotment
1918	5000		Connolly		Probably Horsepasture/Olallie/Lookout
1918		12	Belknap		East or South Fork McKenzie
1919	3600		Connolly		Probably Horsepasture/Olallie/Lookout
1920	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1921	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1921					Olallie Guard Station Closed to grazing
1922	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1923	3600		Connolly		Probably Horsepasture/Olallie/Lookout
1923		5	Taylor	E. Fork McKenzie	
1924	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1924		7	Taylor	E. Fork McKenzie	
1925	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1925		9	Taylor	E. Fork McKenzie	
1926	4800		Connolly		Probably Horsepasture/Olallie/Lookout
1927	600		Connolly		Probably Horsepasture/Olallie/Lookout
1928	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1929	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1929				Olallie	Olallie Mtn. closed to grazing
1930	4200		Connolly		Probably Horsepasture/Olallie/Lookout
1931	4440		Connolly	Olallie/Lowder	Also grazed Rebel Rock
1937	1200		Connolly	Lowder	
1938	1200		Connolly	Lowder	

Table 1. North Page 2

1938	1200		Lowder	Also grazed Rebel Rock
1939	1180		Lowder	Also grazed Rebel Rock
1939				Lowder Mtn. allotment reduced 3 to 2 bands due to conifer encroachment
1940	2400	Connolly	Horsepasture	Also grazed Rebel Rock
1941	3600	Connolly	Horsepasture	Also grazed Rebel Rock
1942	3600	Connolly	Horsepasture	Also grazed Rebel Rock
1942	0		Lowder/Horsepasture	Authorized Non-Use; no grazing
1943	0		Lowder/Horsepasture	Authorized Non-Use; no grazing
1944	0		Lowder	Authorized Non-Use; no grazing
1945	0	Connolly	Horsepasture	Non-Use; no grazing
1946	0		Lowder	Non-Use; no grazing
1948	0	Connolly	Horsepasture	Authorized Non-Use; no grazing

Table 2 South Page 1

South Fork McKenzie allotments					
South					
Year	S&G	C&H	Permittee	Area	Comment
1916	4200		Fisher	Olallie Mtn.	Kuhns (1917)
1916	?		Connolly	Packsaddle	
1917	2033		Fisher	Wildcat	Also grazed on Three Sisters allotment
1917	1450		Jones	Packsaddle	
1918	4200		Fisher	?	Probably East of Rebel Rock (Wildcat)
1919	4200		Fisher	?	Probably East of Rebel Rock (Wildcat)
1920	4200		Fisher	?	Probably East of Rebel Rock (Wildcat)
1920	800		Jones	Packsaddle	
1921	1200		Breen	Packsaddle	
1921	4200		Fisher	?	Probably East of Rebel Rock (Wildcat)
1921	1200		Jones	Packsaddle	
1922			Breen	Packsaddle	Also grazed on the Deschutes
1922	1200		Jones	Packsaddle	
1923			Breen	Packsaddle	
1923	2900		Fisher	?	Probably East of Rebel Rock (Wildcat)
1924	1200		Breen	Packsaddle	Also grazed on the Deschutes
1924	4200		Fisher	?	Probably East of Rebel Rock (Wildcat)
1926	2800		Fisher	Cascade N.F.	Probably East of Rebel Rock (Wildcat)
1927	2800		Fisher	Cascade N.F.	Probably East of Rebel Rock (Wildcat)
1928	2800		Fisher	Cascade N.F.	Probably East of Rebel Rock (Wildcat)
1929	2800		Fisher	Cascade N.F.	Probably East of Rebel Rock (Wildcat)
1930	2800		Fisher	Cascade N.F.	Probably East of Rebel Rock (Wildcat)
1931	2800		Fisher	Cascade N.F.	Probably East of Rebel Rock (Wildcat)
1931	1000		Jones	Packsaddle	Also grazed on the Deschutes
1932	3000		Fisher	Wildcat/Packsaddle	Also grazed Horse Lake
1933	3000		Fisher	Wildcat/Packsaddle	Also grazed Horse Lake
1934	3000		Fisher		Probably Wildcat/Packsaddle
1935	3000		Fisher		Probably Wildcat/Packsaddle
1936	3000		Fisher		Probably Wildcat/Packsaddle
1937	3000		Fisher		Probably Wildcat/Packsaddle

1938	3000	Fisher		Probably Wildcat/Packsaddle
1938	1188	?	Packsaddle	
1939	2000	Fisher	Wildcat/Packsaddle	Also grazed Horse Lake
1939	1177		Packsaddle	
1940	1800	Fisher	Wildcat/Packsaddle	Also grazed Horse Lake
1941	1800	Fisher	Wildcat/Packsaddle	Also grazed Horse Lake
1942	1800	Fisher	Wildcat/Packsaddle	Also grazed Horse Lake
1943	0	Fisher	Wildcat/Packsaddle	Non-use; no grazing
1944	?	Wilshire	Packsaddle	Also grazed Horse Lake
1945	?	Wilshire	Packsaddle	Also grazed Horse Lake
1946			Packsaddle	Corral Flats closed to grazing

Table 3. West Page 1

<u>South Fork McKenzie allotments</u>					
West					
Year	S&G	C&H	Permittee	Area	Comment
1915		25		Grasshopper	
1916		28		Grasshopper	
1917		35		Grasshopper	
1917		27	Walker	Grasshopper	
1918		35		Grasshopper	
1919		15	Belknap	S. Fork McKenzie	
1919		7		Grasshopper	
1920		15	Belknap	S. Fork McKenzie	
1921		15	Belknap	S. Fork McKenzie	
1921		26	Humphrey		At Grasshopper/Sourgrass
1922		15	Belknap	S. Fork McKenzie	
1922		22	Humphrèy		At Grasshopper/Sourgrass
1923		20	Belknap	S. Fork McKenzie	Also grazed on the Foley Ridge
1924		25	Belknap	S. Fork McKenzie	Also grazed on the Foley Ridge
1925		20	Belknap	?	Probably S. Fork McKenzie
1926		15	Belknap	S. Fork McKenzie	Also grazed on the Foley Ridge
1927		20	Belknap	S. Fork McKenzie	Also grazed on the Foley Ridge
1928		9	Belknap	S. Fork McKenzie	Also grazed on the Foley Ridge
1929					Brock Ranger Station closed to grazing
1929					Major Prairie closed to grazing
1931		50	McAtee	Grasshopper	
1932		50	McAtee	Grasshopper	
1933		50	McAtee	Grasshopper	
1934		50	McAtee	Grasshopper	
1935		88	McAtee	Grasshopper	
1936		80	McAtee	Grasshopper	
1937		88	McAtee	Grasshopper	
1938		85	McAtee	Grasshopper	
1939		75	McAtee	Grasshopper	
1940		70	Hayes	Grasshopper	

Table 3. West Page 2

1940		70	McAtee	Grasshopper	
1941		100	Hayes	Grasshopper	
1942		75	McAtee	Grasshopper	
1943		41		Grasshopper	
1944		68		Grasshopper	
1949		30	Howard	Grasshopper	
1951		15	Halstead	Grasshopper	
1951		15	McFarland	Grasshopper	
1951		25	Burt	Grasshopper	
1952		30	Burt	Grasshopper	
1952		15	Halstead	Grasshopper	
1952		20	McFarland	Grasshopper	
1952			Walker	Grasshopper	Missing files for Grasshopper/Chucksney date between 1952-1976
1953		40	Burt	Grasshopper	
1954		20	McFarland	Grasshopper	
1954		35	Burt	Grasshopper	
1954		25	McFarland	Grasshopper	
1956		6	Cockerill	Grasshopper	
1957		10	Cockerill	Grasshopper	
1971		?		Grasshopper	
1976			Walker	Grasshopper	Missing files for Grasshopper/Chucksney date between 1952-1976

Table 4. Rebel Rock

South Fork McKenzie allotments					
Rebel					
Year	S&G	C&H	Permittee	Area	Comment
1915		25		Grasshopper	First record of cattle on Grasshopper
1916		10	Belknap	E.Fork McKenzie	First record of cattle on the East Fork McKenzie allotment
1920		3	Belknap		Probably Rebel Rock
1921		7	Belknap		Probably Rebel Rock
1922		10	Belknap	Rebel Rock	
1931	4440		Connolly	Rebel Rock	Also grazed Olallie/Lowder
1932	3600		Connolly	Rebel Rock	Also Grazed Horsepasture
1933	3600		Connolly	Rebel Rock	Also Grazed Horsepasture
1934	2400		Connolly	Rebel Rock	Also Grazed Horsepasture
1937	1200		Connolly	Rebel Rock	
1938	1200		Connolly	Rebel Rock	
1938					Rebel Rock allotment combined with Horsepasture allotment
1939	1180		Connolly	Rebel Rock	
1940	2400		Connolly	Rebel Rock	Also Grazed Horsepasture
1941	3600		Connolly	Rebel Rock	Also Grazed Horsepasture
1942	3600		Connolly	Rebel Rock	Also Grazed Horsepasture
1944	1200		Connolly	Rebel Rock	
1947 ?			Connolly	Rebel Rock	
1948				Rebel Rock	Authorized Non-Use; no grazing
1949				Rebel Rock	Authorized Non-Use; no grazing
1950				Rebel Rock	Authorized Non-Use; no grazing
1951				Rebel Rock	Authorized Non-Use; no grazing
1952				Rebel Rock	Authorized Non-Use; no grazing
1953				Rebel Rock	Authorized Non-Use; no grazing

Table 5. Chucksney Page 1

South Fork McKenzie allotments					
Chucksney					
Year	S&G	C&H	Permittee	Area	Comment
1916		?	Blair	Chucksney	
1916		25	Callison	Chucksney	
1916		45	Walker	Chucksney	
1917		70	Callison	Chucksney	
1917		80	Eastman & Son	Chucksney	
1918		95	Callison	Chucksney	
1918		70	Eastman & Son	Chucksney	
1918		35	Walker	Chucksney	
1919		115	Callison	Chucksney	
1920		115	Callison	Chucksney	
1921		125	Callison	Chucksney	
1922		125	Callison	Chucksney	
1929	700		Katzman	Chucksney	
1929	1200		Katzman	Chucksney	
1929				Chucksney	40 acres at Box Canyon Guard Station closed to grazing
1931	1200		Katzman	Chucksney	
1932	?		Jones	Chucksney	Also grazed Blair
1933	?		Jones	Chucksney	Also grazed Blair
1934	?		Jones	Chucksney	Also grazed Blair
1935	?		Jones		Probably Chucksney
1937	?		Jones		Probably Chucksney
1936	?		?	Chucksney	
1937	1250		?	Chucksney	Also grazed on Blair
1938	1200		Jones	Chucksney	
1939	1187		Jones	Chucksney	
1939					Recreational closure of S. Fork McKenzie basin
1940	?		Jones	Chucksney	
1941	?		Jones	Chucksney	
1942	?		Jones	Chucksney	
1943	?		Jones	Chucksney	

Table 5. Chucksney Page 2

1944		48	McLane	Chucksney	
1945		60	McLane	Chucksney	
1946		60	McLane	Chucksney	
1947		50	McLane	Chucksney	
1948		66	McLane	Chucksney	
1949		60	McLane	Chucksney	
1950		40	McLane	Chucksney	
1952		10	McLane	Chucksney	
1952			Walker	Chucksney	Missing files for Grasshopper/Chucksney date between 1952-1976
1953		4	McLane	Chucksney	
1954		13	Walker	Chucksney	
1955		25	Morehouse	Chucksney	
1966		68	Long	Chucksney	
1968		60	Long	Chucksney	
1971		?		Chucksney	
1976			Walker	Chucksney	Missing files for Grasshopper/Chucksney date between 1952-1976

Total sheep grazed in the Willamette (Minor and Pecor 1977)

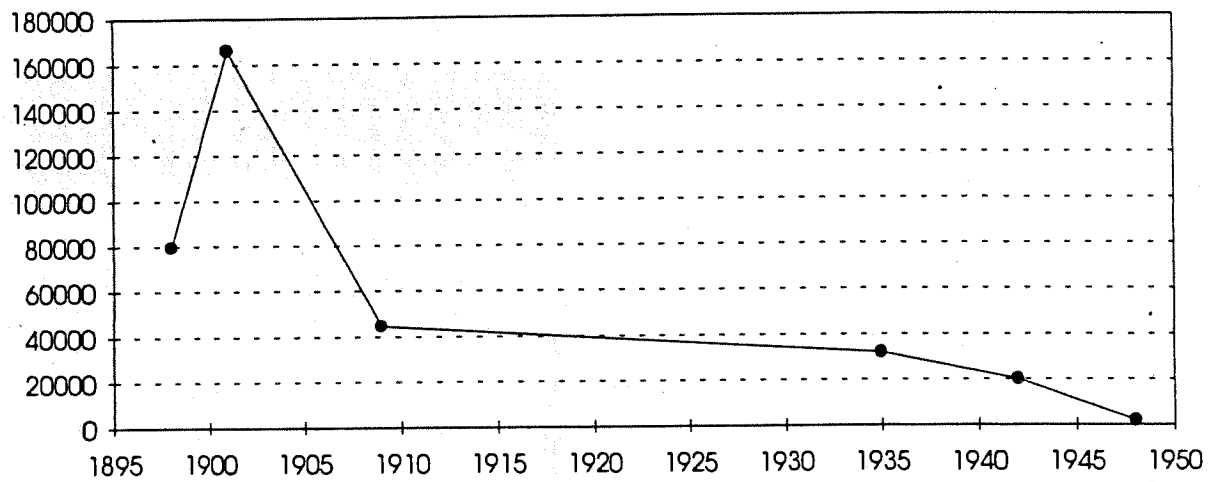
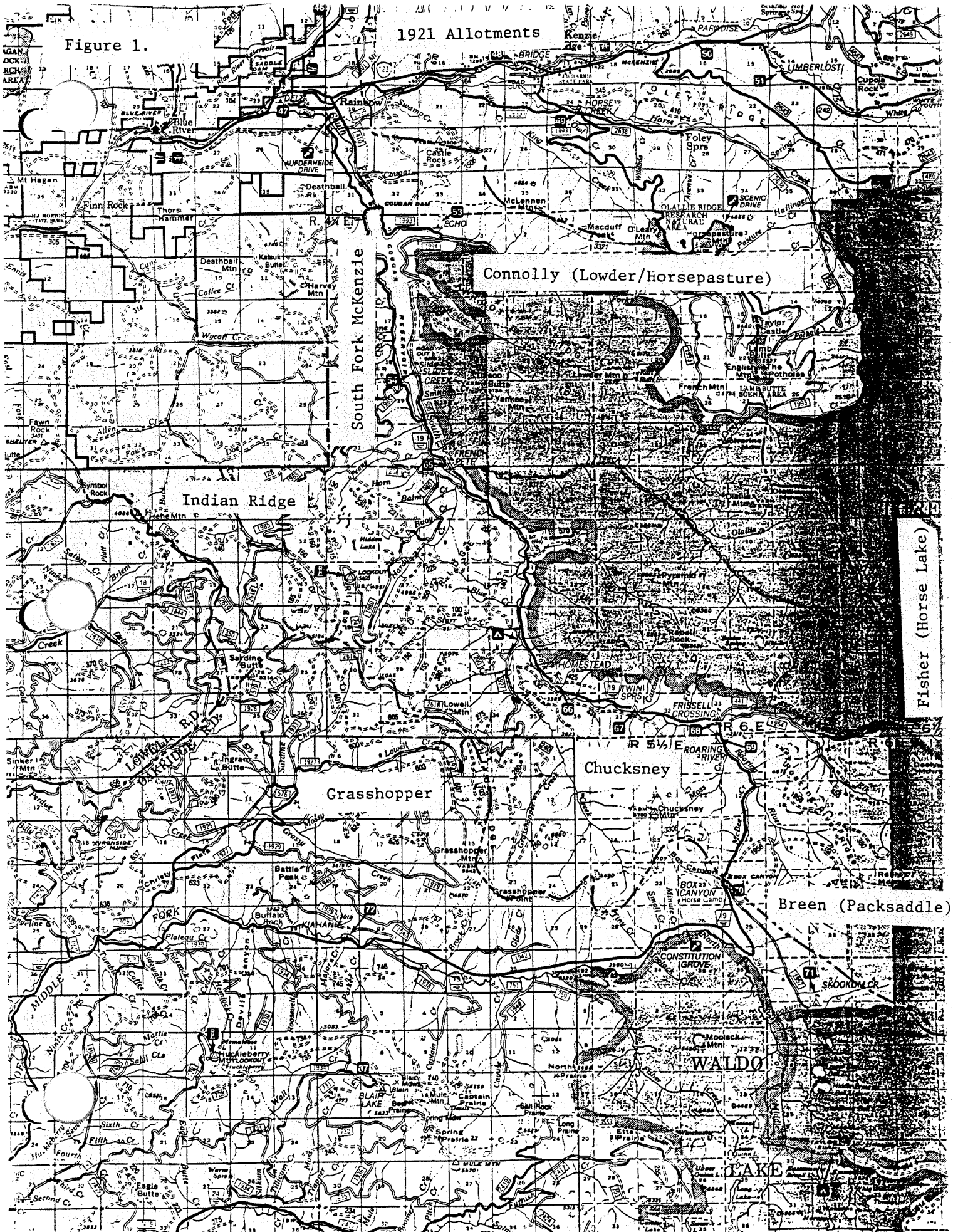


Figure 1.

1921 Allotments



Fisher (Horse Lake)

Connolly (Lower/horsepasture)

South Fork Mckenzie

Indian Ridge

Grasshopper

Chucksney

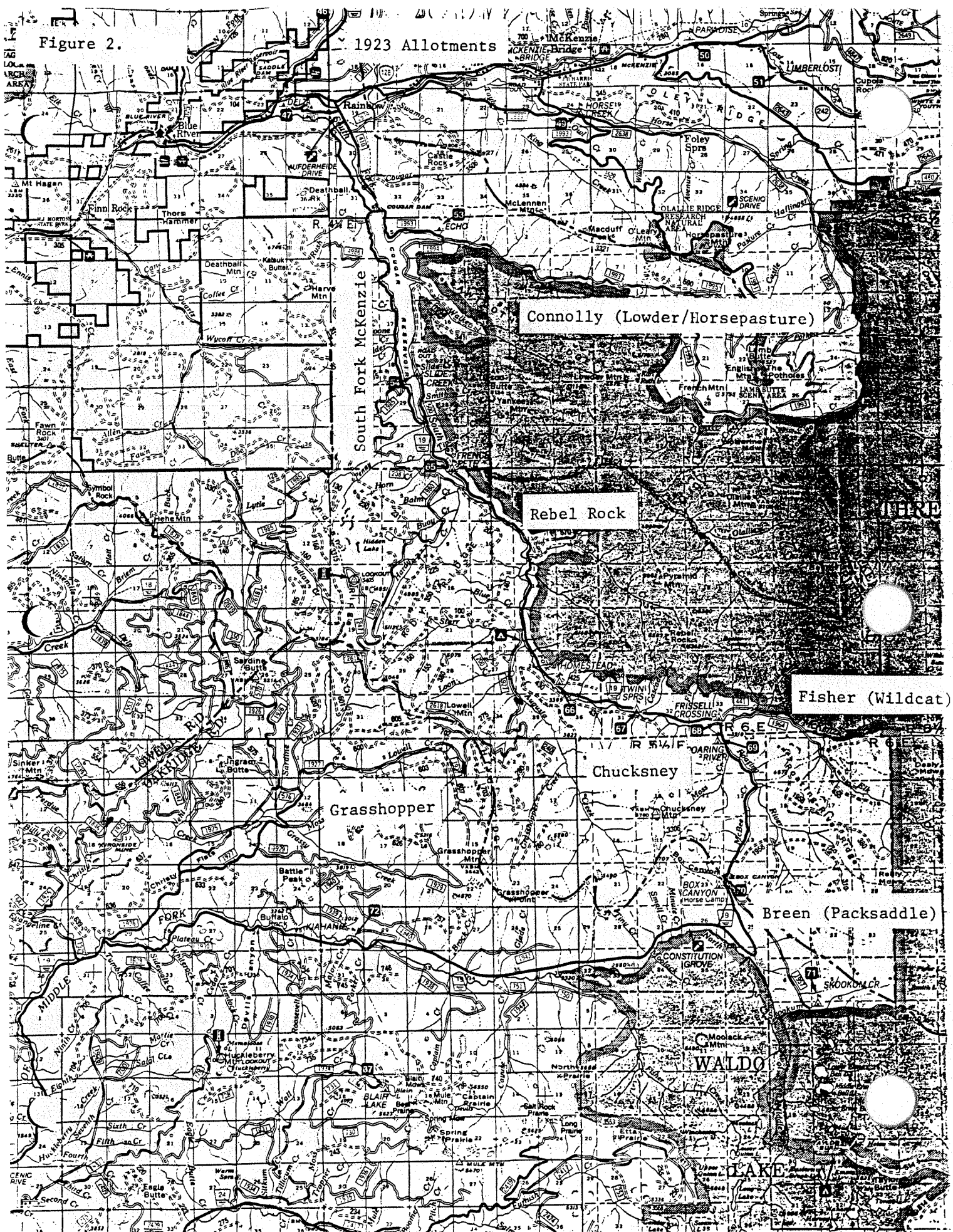
Breen (Packsaddle)

WALDO

LAKE

Figure 2.

1923 Allotments



Connolly (Lower/Horsepasture)

Rebel Rock

Fisher (Wildcat)

Chucksney

Grasshopper

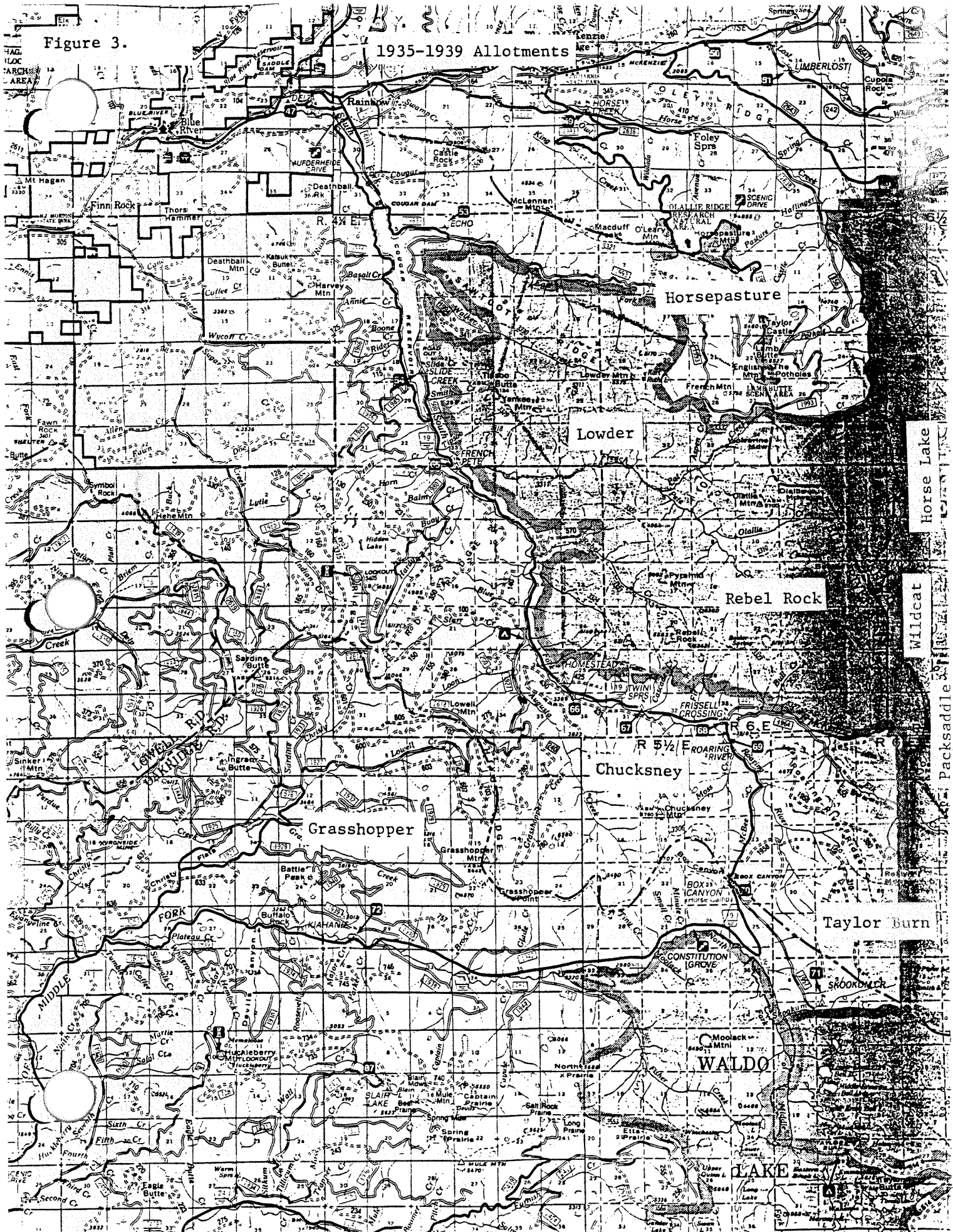
Breen (Packsaddle)

WALDO

LAKE

Figure 3.

1935-1939 Allotments

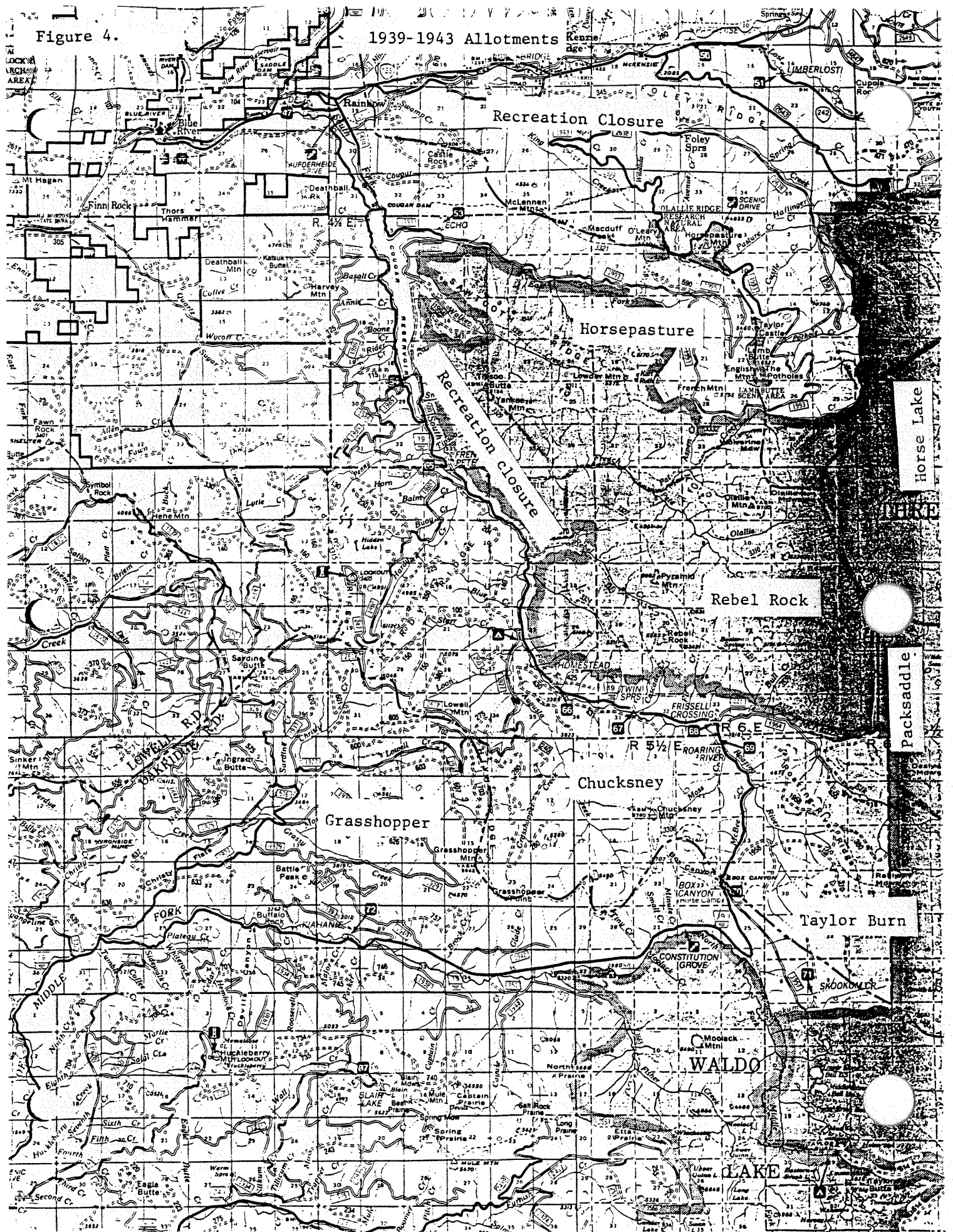


Horse Lake
Wildcat
Packsaddle

Taylor Burn
SROOKMCK
LAKE

Figure 4.

1939-1943 Allotments Reuzen



Recreation Closure

Horsepasture

Recreation Closure

Rebel Rock

Chucksney

Grasshopper

Taylor Burn

WALDO

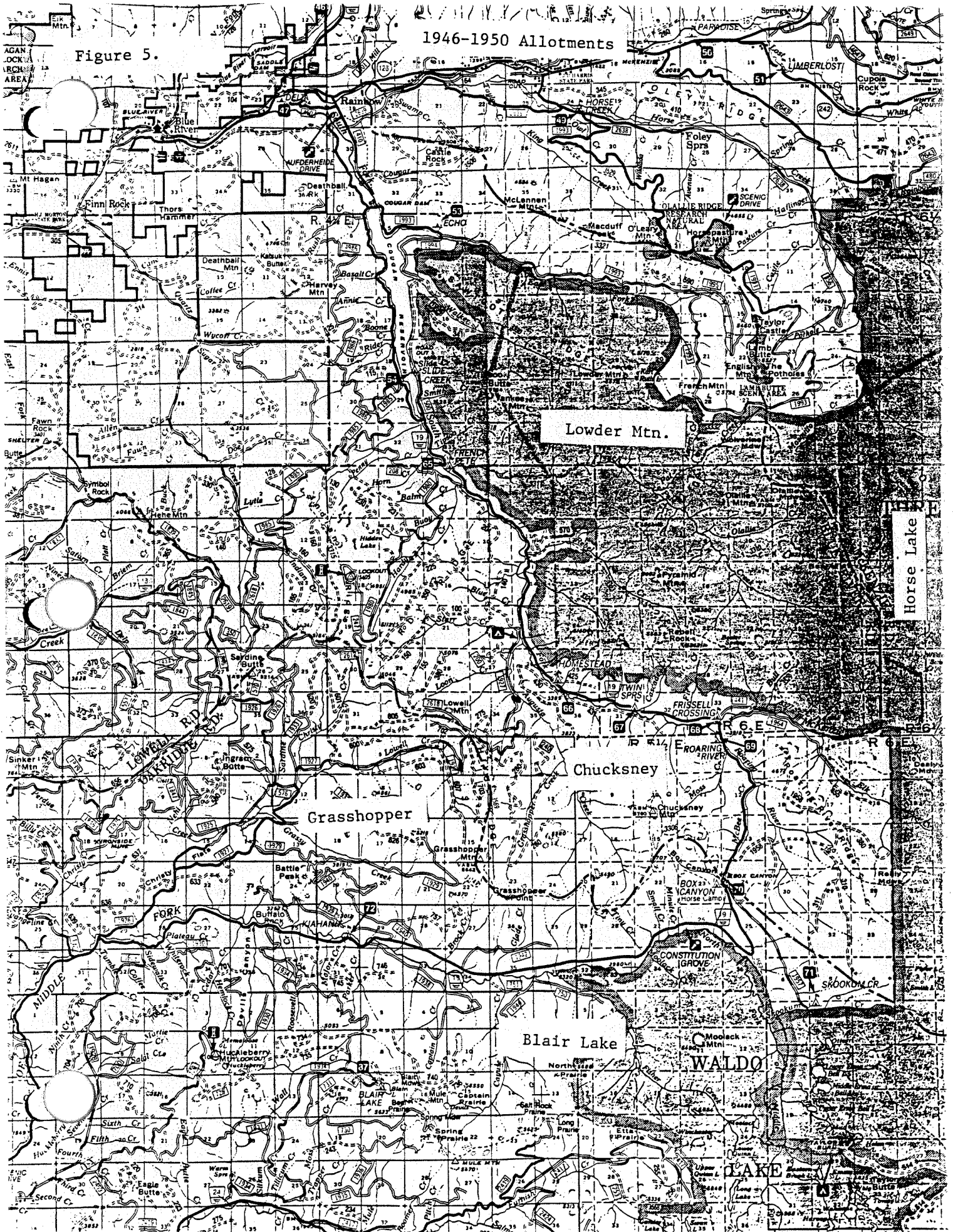
LAKE

Horse Lake

Packsaddle

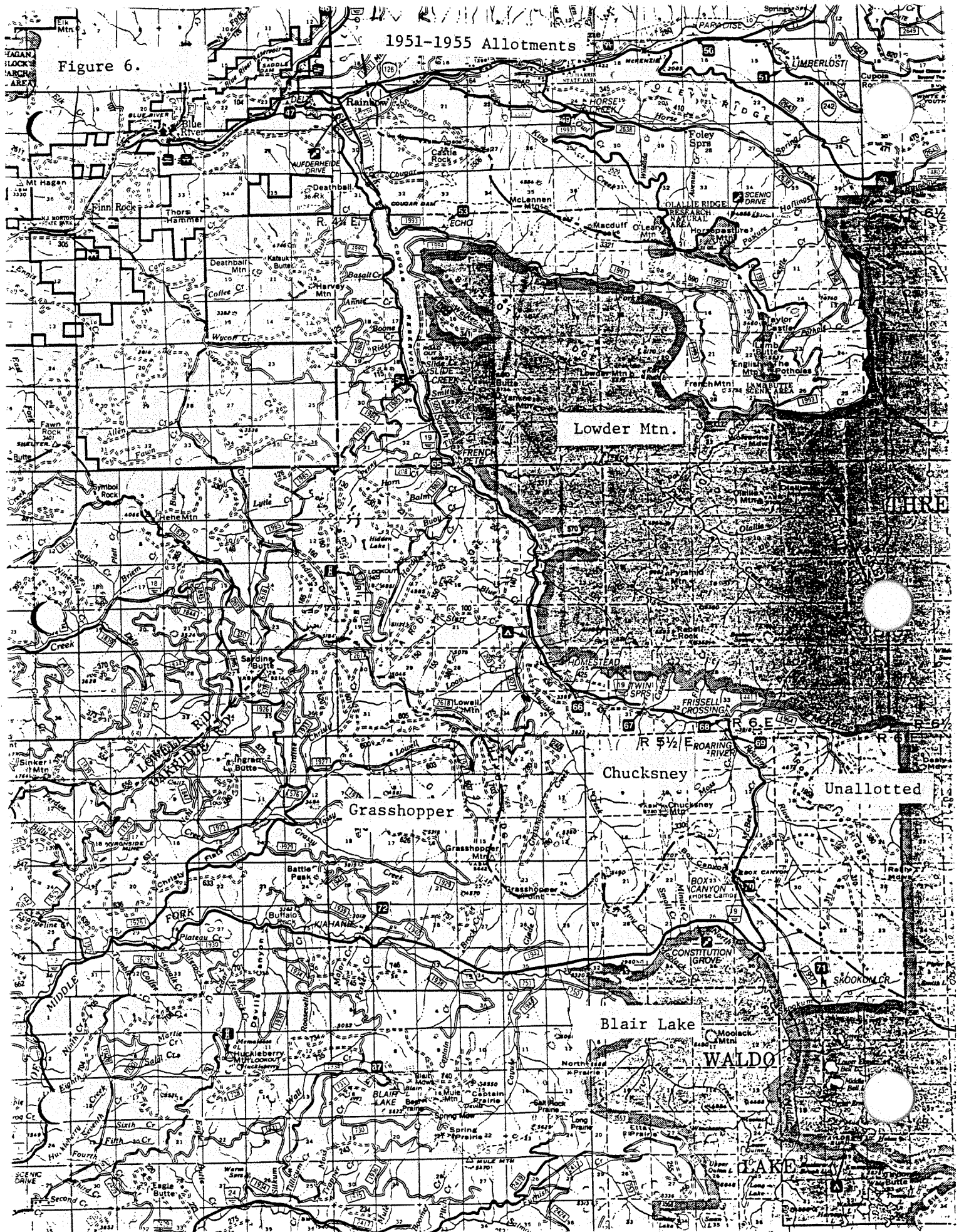
1946-1950 Allotments

Figure 5.



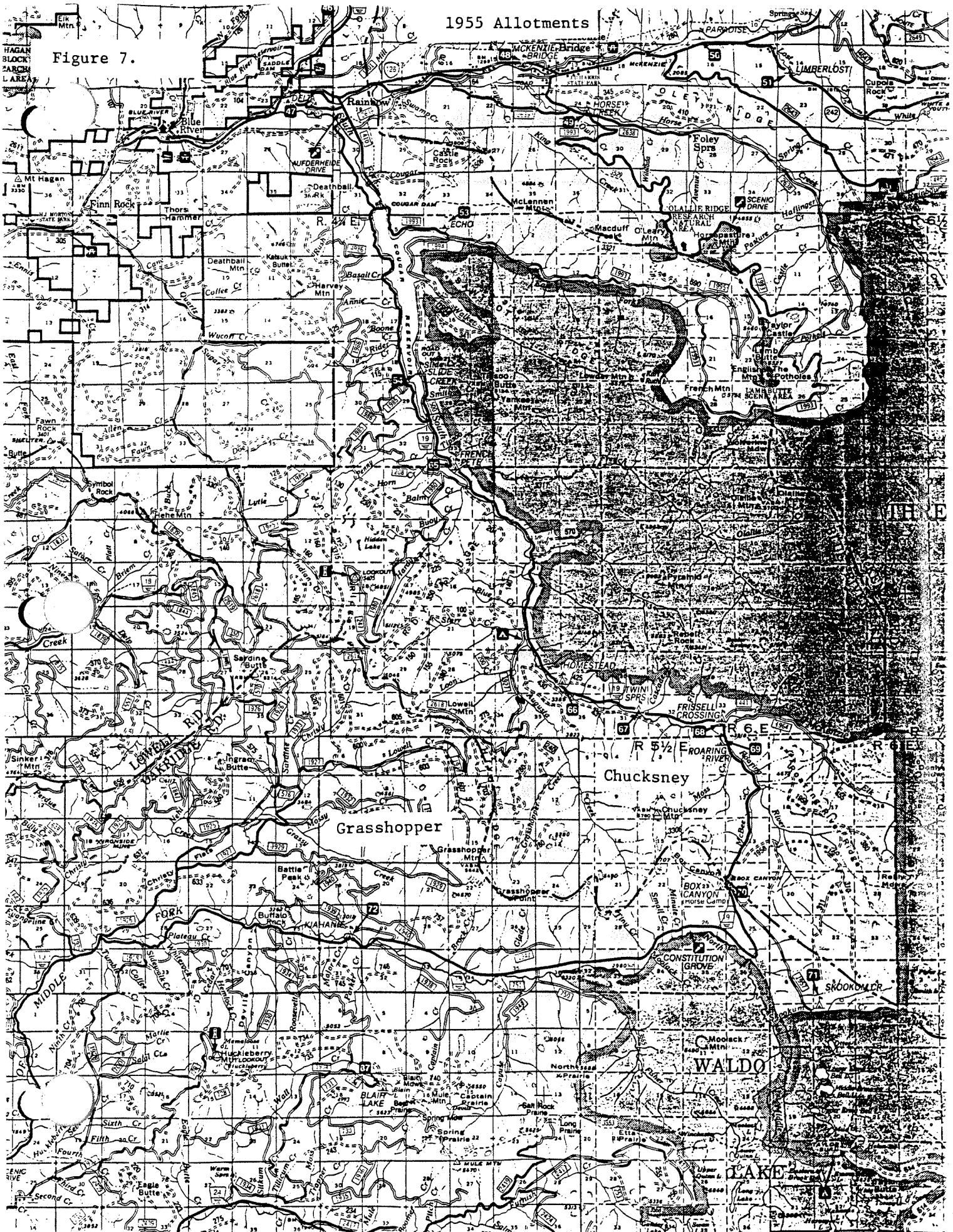
1951-1955 Allotments

Figure 6.



1955 Allotments

Figure 7.



**Appendix Table VEG2: Harvest Acres by
Decade by Subwatershed**

Sub watersheds	Decades	Acres
	0	2,031.01
	1940	424.63
	1950	26.24
	1960	181.27
	1970	92.61
	1980	226.53
	1990	136.88
13A		3,119.19
	0	11,283.05
	1950	15.99
	1960	163.11
	1970	405.96
	1980	534.88
	1990	521.37
13B		12,924.36
	0	5,290.94
	1950	2.91
	1960	51.84
	1970	32.7
13C		5,378.39
	0	2,793.04
	1950	11.73
	1960	36.5
	1980	19.66
13D		2,860.94
	0	19,815.26
	1960	34.29
	1970	43.07
	1980	0
13E		19,892.63
	0	4,905.79
	1960	112.65
13F		5,018.43