BEFORE THE STATE ENGINEER OF OREGON

Lake County

DETERMINATION OF THE EXTENT TO WHICH THE INCHOATE WATER RIGHTS OF THE GOOSE LAKE VALLEY IRRIGATION COMPANY HAVE BEEN COMPLETED IN THE MATTER OF THE DETERMINATION OF THE RELATIVE RIGHTS TO THE USE OF THE WATERS OF DREW CREEK, ANTELOPE CREEK, COTTONWOOD CREEK, THOMAS CREEK AND COGSWELL CREEK AND THEIR TRIBUTARIES, TRIBUTARIES OF GOOSE LAKE.	SUPPLEMENTAL FINDINGS OF FACT AND ORDER OF DETERMINATION.

Now at this time the above entitled matter coming before the State Engineer for consideration and for making supplemental findings of fact as to the completion of the inchoate water rights allowed by the decree of the Circuit Court of the State of Oregon for Lake County in the name of the Goose Lake Valley Irrigation Company, entered of record May 15, 1923, hereinafter referred to as the Goose Lake Decree; and it appearing that the time for the completion of said inchoate rights, as set by said Goose Lake Decree, and as subsequently extended from time to time by orders of the State Water Board and State Engineer, for good cause shown, has expired; that a field examination and survey of the lands reclaimed and irrigated in completion of said inchoate rights was made under the direction of the State Engineer from which a map has been prepared and is made a part of the record herein; that proof and evidence has been taken, showing the extent to which said inchoate water rights have been completed under the provisions of the Goose Lake Decree, together with the sworn statement of the Secretary-manager of the Lakeview Water Users, Incorporated, successor in interest to said Goose Lake Valley Irrigation Company. and filed as a part of the record herein; the State Engineer of Oregon being now fully advised in the premises, makes the following

SUPPLEMENTAL FINDINGS OF FACT

- 1 -

Under the provisions of paragraph 2 of said Goose Lake Decree, inchoate water rights were established in the name of the Goose Lake Valley Irrigation Company for the storage of 80,000 acre-feet of the waters of Drew Creek in Drew Reservoir, under priority date of January 21, 1907, and 18,000 acre-feet of the waters of Cottonwood Creek in Cottonwood Reservoir under priority date of July 31, 1908. In addition to said storage rights, direct flow rights were allowed for the appropriation of 300 cubic feet per second from the natural flow of Drew Creek, 100 cubic feet per second from the natural flow of Willow Creek, 100 cubic feet per second from the natural flow of Antelope Creek, 50 cubic feet per second from the natural flow of Muddy Creek and 200 cubic feet per second of the natural flow of Thomas Creek under priority date of January 21, 1907, and 200 cubic feet per second of the natural flow of Cottonwood Creek under priority date of July 31, 1908.

Said stored and direct flow waters were made appurtenant to a total of 59,990.4 acres of land within Townships 38, 39, 40 and 41 South, Ranges 18, 19 and 20 East, W.M., as more specifically set out and described under paragraph 29 of the Findings of the State Water Board, entered of record April 19, 1922.

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The Lakeview Water Users, Incorporated was organized and incorporated under the corporation laws of the State of Oregon on January 4, 1938, primarily for the purpose of acquiring the assets and rehabilitating the physical features of the Goose Lake Valley Irrigation Company. Since its organization, the Lakeview Water Users, Inc. has proceeded with due diligence in the rehabilitation of the existing storage reservoirs and distribution system and has entered into contracts with the several water users under its system for the delivery of water to the approximate maximum economical acreage.

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The time for the completion of said inchoate water rights was set by the Goose Lake Decree as January 1, 1928, with the provision that said time limit may be extended by the State Water Board upon a showing of good cause therefore.

Upon proper petitions for extension of said time limit, the State Water Board and later the State Engineer, did extend the time limit for the completion of said inchoate rights from time to time, the last extension having expired on August 1, 1960. During the period July 28 to August 21, 1959 a field examination of the physical features of the storage and distribution system, and a survey of the lands reclaimed and irrigated, was made under the direction of the State Engineer for the purpose of determining the extent to which said inchoate rights have been perfected. Subsequently, during July 15 to 20, 1960 a recheck was made of the irrigated lands from which some corrections and revisions were made.

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Storage Rights - Under the provisions of said Goose Lake Decree, two storage reservoirs were to be constructed, one being on the channel of Drew Creek for the storage of a contemplated 80,000 acre-feet of the waters of Drew Creek; the second being on the channel of Cottonwood Creek for the storage of a contemplated 18,000 acre-feet of the waters of Cottonwood Creek.

Drew Reservoir was originally constructed during the years 1909 - 1913, and from data and maps submitted by the Goose Lake Valley Irrigation Company, was designed and constructed to a capacity of 65,000 acre feet. Since that time, and using the contour map prepared from a topographic survey of the reservoir site made by G. W. Rice, Chief Engineer for the Goose Lake Valley Irrigation Company during the period Nov. 1, 1908 to Oct. 1, 1914, the usable storage capacity of

Drew Reservoir was computed as 62,500 acre-feet between the elevation of the bottom of the outlet conduit at 516 feet, and the crest of the spillway at 555 feet, assumed datum.

Permanent bench marks have been established which were tied into the original assumed datum, by the United States Geological Survey, from which it has been determined that the elevation of the bottom of the outlet conduit is at 4,875.62 feet, mean sea level, and that the crest of the spillway lip is at elevation 4,914.62 feet, mean sea level.

Cottonwood Reservoir was originally constructed during the year 1921, on the channel of Cottonwood Creek, the dam being located within the N½SW¼, Section 29, T. 38 S., R. 18 E., W.M. From data and topographic maps of the dam and reservoir site, prepared from surveys made under the direction of the Chief Engineer for the Oregon Valley Land Company, original predecessor of the Goose Lake Valley Irrigation Company, the usable storage capacity was computed to be 4,160 acre-feet between the bottom elevation of the outlet conduit at 672 feet and the spillway crest at 702 feet, assumed datum.

Subsequent to a partial failure of Cottonwood Dam in 1927, it was repaired and again placed in serviceable condition, however it was kept under close observation for any further indications of possible failure. About the year 1956 an unstable condition again became apparent and, following several inspections of the structure by competent engineers, it was pronounced unsafe. Thereafter and during the year 1959 extensive repairs were undertaken in the strengthening and raising of the embankment and the reconstruction of the spillway. The elevation of the spillway crest as reconstructed, is believed to be approximately 1½ feet higher than the original crest, with a resulting increase in the computed storage capacity of approximately 240 acre-feet, and increase in the usable storage to 4,400 acre-feet.

Direct Flow Rights - Under the provisions of the Goose Lake Decree of May 15, 1923, rights to the use of the waters of tributary streams intercepted by the main canals of the project were allowed in addition to the waters stored in the two reservoirs.

It appears that in the early years of the project, the use of direct flow from the several streams intercepted by the main canals was contemplated and perhaps practiced, which was the basis of the claim for direct flow to supplement storage, in the original adjudication proceeding.

From present evidence it appears that provisions had been made to by-pass the natural flow of Willow Creek and Antelope Creek by means of conduits placed under the canal. Also that provisions had been made to intercept the natural creek flow and divert same into the canal. That later the original by-pass conduits were abandoned and Calco gates provided in the downstream

canal embankment to permit the creek flow, after being intercepted by the canal, to discharge through the canal when not required.

It appears that the direct flow of Muddy Creek has never been utilized. The North Drew Canal crosses the channel of Muddy Creek by means of an overhead conduit or flume section, approximately one-quarter mile in length and about thirty feet in maximum elevation above the creek channel. Evidence does not indicate the former existance of a feeder canal or ditch to divert the waters of Muddy Creek into the canal. It thus appears that the direct flow right from Muddy Creek was never used nor perfected.

The northerly terminus of North Drew Canal is at its intersection with Thomas Creek within the SW¼NE¼, Section 23, T. 38 S., R. 19 E., W.M. It appears that the normal flow of Thomas Creek is required to satisfy vested rights prior to the project lands and that it did not prove economical to divert any of the remaining flow of Thomas Creek into the project canal. At the present time, the extreme northerly portion of North Drew Canal is used only as a means of discharging surplus canal flow into the channel of Thomas Creek.

The direct flow of Drew Creek entering Drew Reservoir after prior upstream rights have been served, supplements the stored water released from the reservoir, and since there are no prior rights to the use of the waters of Drew Creek downstream from the reservoir it would appear that the Goose Lake Valley Irrigation Company, now the Lakeview Water Users, Inc., is entitled to supplement its storage right during the irrigation season by the remaining natural flow of Drew Creek, up to a maximum diversion of 300 cubic feet per second, after prior upstream rights have been served.

The Goose Lake Decree allowed vested rights to the use of the waters of Cottonwood Creek and its tributaries for the irrigation of a total of 2906.4 acres of land. Of this amount, 268.8 acres are located above Cottonwood Reservoir, and the balance of 2637.6 acres are located below the reservoir. Of the 2637.6 acres below the reservoir, 234.8 acres are irrigated from Muddy Creek above its confluence with Cottonwood Creek, leaving 2402.8 acres which must be supplied from Cottonwood Creek during the irrigation season.

The direct flow of Cottonwood Creek entering Cottonwood Reservoir after prior upstream rights have been served, and sufficient flow released or by-passed to supply the downstream rights for 2402.8 acres, may be impounded during the irrigation season to supplement the storage right, up to a maximum diversion of 200 cubic feet per second.

During the fifty-three years which have elapsed since the irrigation of the lands under the present Lakeview Water Users, Inc. was initiated, the landowners have undergone many difficult and discouraging situations. Since the present organization was formed in 1938, and acquired all the assets of its predecessor, the Goose Lake Valley Irrigation Company, a concerted effort has been made to rehabilitate the project, and reasonable diligence has been shown in the continued prosecution of the rehabilitation program.

The Goose Lake Decree provided that, due to the normal water supply being insufficient to adequately irrigate all of the 59,990.4 acres of land allowed an inchoate water right, a limitation should be placed upon the total amount of land for which water rights may be sold under the project system. It therefore, was ordered that the Goose Lake Valley Irrigation Company shall not sell water rights nor contracts to deliver water for an acreage in excess of that to which it is in a position to deliver an adequate supply of water.

It appears that the Lakeview Water Users, Inc. have abided by the above stated provision of the Goose Lake Decree. At the commencement of this proceeding the Lakeview Water Users, Inc. were requested to, and did furnish a copy of their 1959 assessment roll showing contracts for the delivery of water to a total of 11,372.08 acres of land within the area allowed an inchoate water right by the Goose Lake Decree.

A survey and classification of the lands was made under the direction of the State Engineer during the period July 28 to August 21, 1959 and a re-check was made during July 15 to 20, 1960, during which time each individual water user was contacted relative to the location of the lands upon which his contract water was being applied. The survey disclosed a total of 11,568.3 acres classified as being irrigated under contracts for water delivery, and an additional 2,279.1 acres which were classified as being benefitted by water delivered by the Lakeview Water Users, Inc., but not under contract, being lands which were naturally benefitted by waste and seepage from adjoining contract acres. Of the above totals, 53.9 acres irrigated with contract water and 33.9 acres benefitted by waste and seepage water are located in California, upon lands which were not allowed inchoate rights by the decree.

Duty of Water. - The duty of water for all lands under the system of the Goose Lake Valley Irrigation Company was set by the Goose Lake Decree, paragraph 18, as:

> "That the amount of water diverted during any irrigation season from the reservoir or other sources of supply of the Goose Lake Valley Irrigation Company for lands under its system shall not exceed such amount as will furnish one and one-half acre feet per acre delivered on the land."

The decree further provided that with the development of more modern and economical methods of irrigation, the right was reserved to the State Water Board, (now State Engineer), to receive and consider further evidence relative to duty of water and, if justified by circumstances, to revise the duty of water set by the decree to a duty more in conformity with such changed conditions.

The duty of water as set by the Goose Lake Decree for all other lands within the Goose Lake basin, is a continuous flow of one-fortieth of one second-foot per acre, and the total quantity diverted shall not exceed three-fourths of one acre-foot per acre during any thirty-day period prior to June 1st, and one-half acre-foot per acre during any thirty-day period after June 1st, of each year, and shall not exceed $2\frac{1}{2}$ acre-feet per acre during any irrigation season, measured at the point of diversion.

While it is not now possible to determine the thinking of the State Water Board in fixing the duty of water for the lands of the Goose Lake Valley Irrigation Company at one and one-half acre-feet per acre delivered on the land, it is conceivable that the Board had in mind the objective of fitting the water supply to the land rather than a determination of the quantity of water required to properly irrigate the land. Thus it may have been considered that with storage of 80,000 acre-feet in Drew Reservoir and 18,000 acre-feet in Cottonwood Reservoir, and after allowing for seepage and evaporation losses, the available supply would furnish about one and one-half acre-feet per acre for some 60,000 acres.

Water Requirements. Irrigation water requirements for the lands served by the Lakeview Water Users, Inc. has been determined from experimental data upon two different occasions during past years. Dr. W. L. Powers, Soil Scientist, Oregon Agricultural Experiment Station, conducted an exhaustive soil survey and soil analysis of the irrigable lands of the Goose Lake Valley Irrigation Project, and in his report dated December, 1934, presented the following statement,

> "The net average irrigation requirement is estimated at 24 inches depth an acre varying from 18 inches on heavier soils to perhaps 30 inches for coarser areas."

The United States Department of Interior, Bureau of Reclamation, in its report of February, 1951, covering its investigations of the Goose Lake Project, records the results of a comprehensive analyses of the water requirements for the proper irrigation of the lands served by the Lakeview Water Users, Inc. The report has been carefully reviewed and the State Engineer is in accord with the figures therein presented, relative to water requirement for the proper irrigation of the lands.

The Bureau of Reclamation has segregated the lands in two general types for their report, "gently sloping old lake terrace designated as bench lands, which extends from the foot hills on

the west into the more recent lake and stream deposits at lower elevations and toward the eastern part of the area, designated as bottom land." The lands under consideration were also segregated as to those served from Drew Reservoir and those served from Cottonwood Reservoir.

The Bureau had under consideration a total of 9,800 acres of irrigable land which was segregated as follows:

	Number of acres		
	Bench Land	Bottom Land	Total
Drew Reservoir	5,900	680	6,580
Cottonwood Reservoir	2,740	480	3,220
Total	8,640	1,160	9,800

The Bureau has presented water requirement figures for both the Bench Lands and the Bottom Lands. However, in this determination, one over-all figure is believed advisable for the sake of less confusion in distribution and administration. Likewise, the Bureau has determined transmission loss for the lands served from Drew Reservoir and from Cottonwood Reservoir separately. This is also believed inadvisable for the purpose of this determination for the reason that the storage capacity of Cottonwood Reservoir is insufficient to serve all the lands east of the channel of Cottonwood Creek and Drew Reservoir water may be delivered throughout the entire length of North Drew Canal. Therefore, an over-all figure for transmission loss has been determined herein.

Water requirement for irrigation use is the summation of consumptive use, farm loss and transmission or delivery loss.

Consumptive Use. Consumptive use is the quantity of water required during the irrigation season for the proper growing and maturing of crops to produce the maximum economical yield. Taking into consideration precipitation, temperature, evaporation and transpiration during the irrigation season, the normal irrigation consumptive use for the lands served was determined by the Bureau to be 1.52 acre-feet per acre. For the purpose of these findings and to conform to the 1923 decree, the consumptive use requirement is determined as 1.50 acre-feet per acre.

Farm loss. Farm loss takes into consideration deep percolation and surface run-off of excess water which may be applied to insure adequate field coverage. Farm loss is dependent principally upon soil type and topography. The lands served by the Lakeview Water Users, Inc. are not uniform as to soil type and topography over the entire project so that farm losses vary to a certain degree. The Bureau of Reclamation has determined that farm loss for the project lands ranges from 0.65 acre-foot per acre for the bench lands to 0.38 acre-foot per acre for the bottom lands. Bench lands constitute approximately 88% and bottom lands 12% of the lands irrigated so that the proportionate figure for farm loss would be (0.88 x 0.65) + (0.12 x 0.38) or 0.62 acre-foot per acre. That figure is adopted for these findings.

Farm delivery requirement would then be the sum of consumptive use and farm loss, 1.50 + 0.62 or 2.12 acre-feet per acre, which checks very closely Dr. Power's figure of 2.0 acre-feet.

Transmission Loss. Transmission loss is the loss by seepage, evaporation, etc. sustained between the point of diversion from the source of supply and the point of delivery to the land, ordinarily computed between the canal headgate and the farm lateral headgate.

The Bureau of Reclamation determined the transmission loss from Drew Reservoir for the months of May, June, July, August and September to be approximately 51% of the total quantity diverted, and from Cottonwood Reservoir for the same period, approximately 42%. Of the total of 9,800 acres considered by the Bureau, 6,580 or 67.2% was computed to be irrigated from Drew Reservoir and 3,220 acres or 32.8% from Cottonwood Reservoir. The average transmission loss for the entire system would then be:

(0.672 x 0.51) + (0.328 x 0.42) equals 0.48 or 48% of the total quantity diverted into the system from the reservoirs. That figure is adopted for these findings.

Diversion requirement. The total diversion requirement per acre for each acre irrigated is the sum of consumptive use, farm loss and transmission loss. Using the figures presented above, the diversion requirement per acre may be computed as follows:

Let X equal the diversion requirement.

Then: X - 0.48X equals 1.50 + 0.62

0.52X equals 2.12

X equals $\frac{2.12}{0.52}$ or 4.08 acre-feet per acre.

Reservoir Operation. Drew Reservoir has a computed usable storage capacity of 62,500 acre-feet. There are no superior prior rights located below the reservoir, so that, during the irrigation season the remaining direct flow of Drew Creek up to a maximum of 300 cubic feet per second, after prior upstream rights have been served, may be used to supplement the waters released from storage for the irrigation of the project lands.

Cottonwood Reservoir, as rehabilitated by repairs to the dam embankment and to the spillway during 1959, has a computed usable capacity of 4,400 acre-feet, and may be assumed to fill to capacity each year by the beginning of the irrigation season.

Of the total of 2,906.4 acres of land allowed vested rights to the use of the waters of Cottonwood Creek by the Goose Lake Decree, superior to the project lands, 2,402.8 acres are located below the reservoir, and during the irrigation season sufficient water must be allowed to

flow in the channel of Cottonwood Creek below the Reservoir to satisfy said prior rights.

During the irrigation season, any natural flow of Cottonwood Creek above the quantity required to satisfy the total prior rights of 2,906.4 acres, up to a maximum of 200 cubic feet per second, may be impounded in Cottonwood Reservoir, or used as direct flow.

Water Supply. Records have been kept for many years on the number of acre-feet stored in Drew and Cottonwood Reservoirs, and of the release from them. These records enable a computation of the net inflow to the reservoirs which is a measure of the irrigation water supply available. Net inflow during any period is the measured outflow plus any increase in storage, or minus any decrease in storage during that period. As so computed it automatically corrects for precipitation and evaporation.

All of the outflow from Drew Reservoir is measured at two stations, one on North Drew Canal and the other on Drew Creek below the canal intake. The outflow from Cottonwood Reservoir is measured at a single station on Cottonwood Creek below the reservoir.

The following tables show the net inflows to the reservoirs for the period of record.

NET INFLOW TO DREW RESERVOIR IN ACRE-FEET

Computed from records for Drew Reservoir, Station No. 814, Drew Creek below Reservoir, Station No. 813 and North Drew Canal, Station No. 8110

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
1921-22	- 323	398	556	246	382	1,329	26,180	13,690	- 560	- 600	- 560	193	40,931
1922-23	125	17	586	1,096	392	5,926	10,401	592	1,650	2,480	1,140	466	24,871
1923-24	369	307	263	589	4,247	301	1,350	391	306	- 144	- 123	- 68	7,788
1924-25	81	209	264	2,181	10,762	4,424	9,605	4,890	3,070	1,090	910	915	38,401
1925-26	11	359	333	243	4,537	2,627	675	260	740	343	71	60	10,259
1926-27	121	2,870	5,313	4,164	7,868	21,560	26,420	12,083	- 330	- 1,940	- 2,200	- 286	75,643
1927-28	299	4,344	1,579	2,559	5,660	27,950	17,180	3,390	- 2,750	- 2,410	- 2,010	- 713	55,078
1928-29	- 436	435	670	756	755	5,646	6,292	60	- 1,500	1,778	2,549	134	17,139
1929-30	- 110	83	1,600	119	9,580	6,706	2,965	730	- 820	1,234	1,454	0	23,541
1930-31	---	records	incomplete	---	---	2,659	698	271	42	61	31	15	---
1931-32	---	records	incomplete	---	---	25,682	9,286	5,285	60	- 1,300	- 1,190	- 824	---
1932-33	---	records	incomplete	---	---	---	8,839	8,480	360	- 960	- 141	- 31	---
1933-34	---	records	incomplete	---	---	---	580	- 82	104	- 91	0	0	---
1934-35	---	records	incomplete	---	---	---		-1,025	- 800	- 2,210	- 1,520	- 851	---
1935-36	---	records	incomplete	---	4,630	18,628	32,600	6,670	260	- 1,720	- 1,530	- 618	---
1936-37	---	records	incomplete	---	---	---	34,160	5,278	330	- 2,320	- 2,290	- 854	---
1937-38	310	620	16,050	2,020	4,570	18,980	66,600	20,630	520	- 1,040	- 1,530	- 1,370	126,360
1938-39	---	records	incomplete	---	---	15,831	3,457	70	- 1,400	- 1,190	- 1,390	- 248	---
1939-40	- 93	- 102	1,507	5,757	19,018	26,300	14,190	750	- 850	- 1,970	- 1,450	- 624	62,433
1940-41	615	875	2,035	1,775	8,126	18,510	7,094	4,750	1,440	- 1,370	- 670	- 1,230	41,950
1941-42	---	records	incomplete	---	---	---	---	---	4,580	- 2,720	- 2,180	3,070	---
1942-43	---	records	incomplete	---	---	---	---	---	---	---	---	---	---
1943-44	---	records	incomplete	265	753	5,163	6,330	800	1,280	1,440	- 1,060	- 1,877	---
1944-45	---	records	incomplete	---	---	---	---	---	---	---	---	---	---
1945-46	---	records	incomplete	---	---	---	---	---	---	---	---	---	---
1946-47	878	825	839	245	2,850	8,333	5,125	950	1,640	- 440	- 1,740	- 859	18,646
1947-48	46	263	3,784	2,462	2,841	2,955	14,377	15,027	8,230	1,070	- 5,580	- 2,724	42,751
1948-49	159	116	403	811	1,583	9,250	23,214	5,560	640	- 2,020	- 2,140	- 752	36,824
1949-50	- 872	568	794	1,210	4,385	16,170	18,719	6,950	1,090	- 2,120	- 2,290	- 121	44,483
1950-51	1,830	3,059	4,593	5,080	16,960	14,660	19,128	10,280	- 1,940	- 2,000	- 2,090	- 120	69,440
1951-52	1,344	1,336	1,347	2,980	7,890	11,920	71,670	16,230	4,150	- 1,290	- 1,560	- 1,090	114,927
1952-53	---	records	incomplete	---	9,130	11,010	19,460	17,620	11,280	---	---	---	---
1953-54	- 332	87	3,072	1,739	7,763	24,680	26,716	3,350	720	- 2,500	- 2,720	- 720	61,855
1954-55	36	41	51	796	45	4,922	10,086	4,650	- 190	- 1,210	- 1,160	504	18,571
1955-56	- 127	591	32,590	25,420	10,590	23,040	51,310	20,780	4,720	- 2,020	- 3,190	- 460	163,244
1956-57	80	1,174	4,441	2,208	18,490	24,380	15,510	8,530	950	- 3,360	- 220	- 330	71,853
1957-58	- 253	912	1,119	5,013	34,630	14,480	34,740	14,620	2,700	- 370	- 770	- 700	106,121
1958-59	-2,552	- 651	256	5,488	2,597	4,380	3,930	- 1,620	- 330	- 1,410	- 520	- 444	9,124

NET INFLOW TO COTTONWOOD RESERVOIR IN ACRE-FEET

Computed from records for Cottonwood Reservoir, Station No. 8115 and Cottonwood Creek below Reservoir, Station No. 818.

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Total
1923-24							2,201	197	- 74	- 49	17	- 6	---
1924-25	125	470	120	113	91	3,275	7,109	2,693	748	- 142	- 334	217	14,485
1925-26	283	291	543	167	827	967	1,333	333	- 115	- 36	30	61	4,684
1926-27	212	1,192	1,757	1,310	1,392	3,417	6,353	7,671	3,060	685	275	237	27,561
1927-28	288	1,361	537	988	900	5,007	3,874	4,394	675	89	38	120	18,271
1928-29	168	220	143	86	78	1,027	1,298	1,346	316	- 143	- 10	42	4,571
1929-30	55	57	1,470	159	2,440	1,785	1,717	835	- 23	- 251	56	55	8,355
1930-31	61	60	61	92	288	785	- 504	- 252	- 151	1	0.5	0.3	442
1931-32	31	60	89	235	90	5,181	4,100	3,596	936	59	- 322	91	14,146
1932-33	101	126	86	61	28	210	1,384	1,936	1,363	183	- 22	83	5,539
1933-34	85	119	67	209	446	1,098	889	459	276	- 81	19	30	3,616
1934-35	73	156	78	31	321	930	4,689	3,521	780	265	115	109	11,068
1935-36	141	Record incomplete			---	---	4,298	3,375	1,167	266	199	129	---
1936-37	91	114	---	Records incomplete			---	3,317	1,767	302	- 23	64	---
1937-38	113	607	---	Records incomplete			9,361	10,451	- 74	654	102	58	---
1938-39	172	401	277	215	297	2,304	2,166	664	315	119	- 73	41	6,898
1939-40	112	138	184	188	2,694	5,266	4,582	1,903	424	83	22	85	15,681
1940-41	138	138	307	461	429	2,523	2,050	3,805	991	304	125	107	11,378
1941-42	---	---	---	---	---	No Records		---	---	---	---	---	---
1942-43	---	---	---	---	---	No Records		---	---	---	---	---	---
1943-44	---	Record incomplete			162	328	1,254	994	1,550	446	307	75	---
1944-45	---	---	---	---	---	No Records		---	---	---	---	---	---
1945-46	---	---	---	---	---	Records incomplete			---	---	---	---	---
1946-47	127	264	430	240	883	1,658	2,382	1,030	968	170	- 61	- 60	8,031
1947-48	164	173	172	983	439	1,158	1,453	5,410	1,295	886	608	160	12,901
1948-49	192	328	191	123	182	1,100	5,293	2,787	1,030	343	6	108	11,683
1949-50	112	94	92	597	608	2,544	3,970	3,130	1,490	- 370	470	238	12,975
1950-51	312	639	1,890	551	2,230	2,729	6,280	4,370	740	360	119	98	20,318
1951-52	272	174	283	175	263	343	10,890	8,630	2,740	940	102	165	24,977
1952-53	164	177	268	1,656	1,804	2,098	6,650	5,560	5,060	710	450	261	24,858
1953-54	241	394	582	432	258	4,170	6,580	3,710	1,060	40	- 64	167	17,570
1954-55	181	105	88	358	331	464	1,579	2,610	540	159	- 347	43	6,111
1955-56	128	203	5,130	3,880	3,290	3,650	10,110	10,340	3,600	420	7	401	41,159
1956-57	396	466	627	217	3,955	3,580	4,100	4,420	1,630	310	190	124	20,015
1957-58	343	319	395	446	5,420	1,880	6,820	9,060	2,110	610	215	176	27,794
1958-59	115	267	269	564	661	1,064	1,387	967	380	200	- 113	123	5,884

Evaporation Loss from Reservoirs. Required storage in the reservoirs to adequately supply the lands being irrigated must also provide for loss by evaporation during the irrigation season. Evaporation is partially offset by precipitation. The net loss during any period of time or for a series of years is a variable quantity, dependent principally upon several variable factors which may be stated as precipitation, temperature, humidity, and wind.

The months of May to September inclusive constitute the normal irrigation season and a normal or average value in acre-feet loss from the reservoirs during said months should be added to the total acre-feet diversion requirement to determine the total acre-feet storage required per irrigation season.

Evaporation from Drew and Cottonwood Reservoirs is estimated as 45 inches per year. This figure is supported by studies made on numberous lakes and reservoirs over the western states, including Goose Lake, by the United States Department of Commerce, Weather Bureau.

The loss by evaporation corrected for precipitation, gives a figure for net loss by evaporation.

Applying the net evaporation loss in feet to the surface area of the reservoir at the mean gage-height elevation for each month gave the approximate loss by evaporation for that month. The sum of each month's loss during the irrigation season is then the total loss during that season. Averaging the season loss for the fifteen years of record considered gave an average season loss by evaporation of 8,179 acre-feet from Drew Reservoir and 391 acre-feet from Cottonwood Reservoir.

Precipitation at Lakeview, as determined by the U. S. Weather Bureau data, averages 14.25 inches per year. The following table summarizes the evaporation and precipitation data.

Month	Evaporation (inches)	Precipitation (inches)	Net Loss by Evaporation (inches)	(feet)
October to May	13.13	10.56	2.57	.214
May	5.02	1.45	3.57	.298
June	6.80	1.38	5.42	.452
July	8.04	0.18	7.86	.655
August	7.66	0.16	7.50	.625
September	4.35	0.52	3.83	.319
Totals	45.00	14.25	30.75	2.562

Assuming each reservoir to be at capacity storage at the beginning of each irrigation season, Drew Reservoir at 62,500 acre-feet with 8,180 acre-feet loss by evaporation, would provide 54,320 acre-feet for irrigation, and Cottonwood Reservoir at 4,400 acre-feet and 390 acre-feet

loss by evaporation would provide 4,010 acre-feet, making a total of 58,330 acre-feet storage available to supply the diversion requirement for irrigation.

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The Lakeview Water Users, Inc., in their statements and proofs of claim, have asserted storage rights for 50,000 acre-feet in Drew Reservoir and 5,000 acre-feet in Cottonwood Reservoir; and direct flow rights of 15,000 acre-feet from Drew Creek and its tributaries, and 5,000 acre-feet from Cottonwood Creek and its tributaries, making a total of 65,000 acre-feet diverted through the Drew Reservoir Canal system and 10,000 acre-feet diverted through the Cottonwood Reservoir Canal system, during each irrigation season.

A right is also asserted for the irrigation of a total of 12,107.2 acres of land from the waters of Drew Creek, Cottonwood Creek and unnamed tributaries of Goose Lake, delivered to the land through the Drew and Cottonwood canal systems.

Using the value of 1.5 acre-feet per acre delivered on the land, as set by the decree, as consumptive use, 0.62 acre-foot per acre as the farm loss, and 48% overall transmission loss, the diversion requirement would be: $\frac{1.50 + 0.62}{0.52}$ or 4.08 acre-feet per acre.

For 12.107.2 acres the seasonal requirement would be 49,397 acre-feet.

Available for diversion:

Drew Reservoir -	62,500 minus	8,180 equals	54,320 acre-feet.
Cottonwood Res.-	4,400 minus	390 equals	4,010 acre-feet.
	Total available		58,330 acre-feet.
Total diversion requirement			49,397 acre-feet.
Balance for hold-over storage			8,933 acre-feet.

Assuming the entire capacity of Cottonwood Reservoir to be diverted each season, the hold-over storage would be in Drew Reservoir.

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The State Engineer's recent field investigations and survey of the lands reclaimed and irrigated from the waters of Drew and Cottonwood Creeks and Reservoirs, allowed inchoate by the Goose Lake Decree, disclosed a total of 13,759.8 acres beneficially irrigated. Of this total, 11,514.6 acres were lands for which the owners thereof had contracts for water delivery with the Lakeview Water Users, Inc., and the balance of 2,245.2 acres were lands benefitted by waste and seepage water from irrigated lands above.

The Lakeview Water Users, Inc. has asserted a right for the irrigation of 12,107.2 acres of the land classified as irrigated by the State Engineer's survey, all of which is within the State of Oregon. It appears that, since the acreage for which a right is asserted is less than the acreage classified as irrigated, the claim should be allowed.

It further appears that the total storage capacity of both Cottonwood Reservoir and Drew Reservoir, as presently constructed, is required to adequately serve the lands for which a

right has been asserted, and allow some hold-over storage to help assure a satisfactory supply during years of below normal run-off.

The normal flow of Drew and Cottonwood Creeks, after prior rights have been served, up to a maximum of 300 cubic feet per second from Drew Creek, and 200 cubic feet per second from Cottonwood Creek, may be utilized as direct flow during the irrigation season, or stored in the reservoirs.

Relative to the direct flow rights allowed by the Goose Lake Decree from Willow Creek, Antelope Creek, Muddy Creek and Thomas Creek, it appears that no water has been, or is being diverted from said streams, and that a claim has not been asserted in this proceeding for the use of the waters of said streams.

ORDER OF DETERMINATION

The State Engineer being now fully advised in the premises, makes and orders to be entered of record the following order of determination relative to the extent to which the inchoate water rights allowed in the name of the Goose Lake Valley Irrigation Company, now Lakeview Water Users, Inc., have been completed and perfected.

That the Lakeview Water Users, Inc., shall have the right to:

(1) Irrigate a total of 12,107.2 acres of land as asserted in its statement and proof of claim, said lands being more particularly set out and described in the tabulation hereinafter following.

(2) Store the waters of Drew Creek in Drew Reservoir, after prior rights have been satisfied, to the maximum capacity thereof as presently constructed, being 62,500 acre-feet.

(3) Store the waters of Cottonwood Creek in Cottonwood Reservoir, after prior rights have been satisfied, to the maximum capacity thereof as presently constructed, being 4,400 acre-feet.

(4) Supplement storage in Drew and Cottonwood Reservoirs during the irrigation season of May 1 to September 30, inclusive, after prior rights have been satisfied, by direct diversion of a maximum of 300 cubic feet per second from Drew Creek, and a maximum of 200 cubic feet per second from Cottonwood Creek.

It is determined and ordered that the total quantity of water which the Lakeview Water Users, Inc. may divert from the reservoirs and from Drew and Cottonwood Creeks shall not exceed 4.08 acre-feet per acre of land irrigated, to provide for 48% transmission loss between the reservoir and farm headgate, 0.62 acre-foot per acre farm loss, and 1.50 acre-feet per acre duty on the land.

It is further Ordered that complete records shall be obtained yearly, to the satisfaction of the State Engineer, of:

(1) Storage in and diversion from both reservoirs.

(2) Flow in North and South Drew Canals at the recorder stations presently installed.

(3) Flow of Cottonwood Creek below the reservoir, and below the North Drew Canal crossing.

It is further ordered that when the total release from storage for each irrigation season, equals the diversion requirement of 4.08 acre-feet per acre for each acre irrigated during that season, as determined from the assessment roll of the Lakeview Water Users, Inc. the canal headgates shall be closed and no more water released, except to prevent or alleviate an emergency.

It is further Ordered that the right allowed by the Goose Lake Decree for the direct diversion from natural flow to the extent of 100 cubic feet per second from Willow Creek, 100 cubic feet per second from Antelope Creek, 50 cubic feet per second from Muddy Creek and 200 cubic feet per second from Thomas Creek, under priority date of January 21, 1907, has been forfeited and lost by non-use and is of no further force or effect.

To supplement the statement of the rights as determined and allowed in the foregoing Order of Determination, the following tabulation is presented, describing more fully the lands to which said rights are appurtenant.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated. Route 6, Box 144 Lakeview, Oregon	Jan. 21 1907	62,500 Ac.Ft. storage in Drew Res.		Irrigation		Drew Cr. and tributaries	
	July 31 1908	4,400 Ac.Ft. storage in Cotton-wood Res.		Irrigation		Cottonwood Creek and tributaries	
			12,107.2	Irrigation	North and South Drew Canals and East Canal	Drew and Cotton-wood Res-ervoirs	10.4 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 31.0 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 23 40.0 acres in $SW\frac{1}{4}SW\frac{1}{4}$ Section 24 19.2 acres in $NE\frac{1}{4}SW\frac{1}{4}$ 1.9 acres in $NW\frac{1}{4}SW\frac{1}{4}$ 4.8 acres in $SW\frac{1}{4}SW\frac{1}{4}$ 25.4 acres in $SE\frac{1}{4}SW\frac{1}{4}$ 8.1 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 25.5 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 19.0 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 25 39.1 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 5.0 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 0.8 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 31.5 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 26 40.0 acres in $SW\frac{1}{4}NE\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}NE\frac{1}{4}$ 10.8 acres in $SE\frac{1}{4}NW\frac{1}{4}$ 34.6 acres in $NE\frac{1}{4}SW\frac{1}{4}$ 21.9 acres in $SE\frac{1}{4}SW\frac{1}{4}$ 39.1 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 39.8 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 40.0 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 35 37.8 acres in $NE\frac{1}{4}NE\frac{1}{4}$ 39.1 acres in $NW\frac{1}{4}NE\frac{1}{4}$ 40.0 acres in $SW\frac{1}{4}NE\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}NE\frac{1}{4}$ 39.1 acres in $NE\frac{1}{4}NW\frac{1}{4}$ 38.2 acres in $NW\frac{1}{4}NW\frac{1}{4}$ 39.1 acres in $SW\frac{1}{4}NW\frac{1}{4}$ 40.0 acres in $SE\frac{1}{4}NW\frac{1}{4}$ 40.0 acres in $NE\frac{1}{4}SW\frac{1}{4}$ 39.1 acres in $NW\frac{1}{4}SW\frac{1}{4}$ 38.2 acres in $SW\frac{1}{4}SW\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}SW\frac{1}{4}$ 39.1 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 40.0 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 39.1 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 38.2 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 36 T. 38 S., R. 19 E., W.M. 20.0 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 25 T. 39 S., R. 18 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated, Continued.							28.3 acres in NE¼NE¼ 20.1 acres in NW¼NE¼ 17.9 acres in SE¼NE¼ 3.3 acres in NE¼NW¼ 35.8 acres in NW¼NW¼ 17.0 acres in SW¼NW¼ 9.9 acres in NE¼SW¼ 26.3 acres in NW¼SW¼ 30.4 acres in SW¼SW¼ 31.9 acres in SE¼SW¼ 10.0 acres in NW¼SE¼ 22.4 acres in SW¼SE¼ 0.6 acre in SE¼SE¼ Section 1 35.4 acres in NE¼NE¼ 38.7 acres in NW¼NE¼ 40.0 acres in SW¼NE¼ 39.1 acres in SE¼NE¼ 39.0 acres in NE¼SE¼ 36.0 acres in NW¼SE¼ 39.1 acres in SW¼SE¼ 38.2 acres in SE¼SE¼ Section 2 30.3 acres in NE¼NE¼ 38.6 acres in NW¼NE¼ 14.7 acres in SW¼NE¼ 33.4 acres in SE¼NE¼ 29.3 acres in NE¼NW¼ 6.4 acres in SE¼NW¼ 9.0 acres in NE¼SE¼ Section 11 12.0 acres in NE¼NE¼ 23.6 acres in NW¼NE¼ 8.0 acres in SE¼NE¼ 10.6 acres in NE¼NW¼ 13.8 acres in NW¼NW¼ 39.1 acres in SW¼NW¼ 28.2 acres in SE¼NW¼ 27.0 acres in NE¼SW¼ 35.2 acres in NW¼SW¼ 38.1 acres in SW¼SW¼ 30.5 acres in SE¼SW¼ 22.0 acres in NE¼SE¼ 5.1 acres in SW¼SE¼ 30.9 acres in SE¼SE¼ Section 12 33.0 acres in NE¼NE¼ 4.3 acres in NW¼NE¼ 19.0 acres in SE¼NE¼ 26.0 acres in NE¼NW¼ 14.0 acres in NW¼NW¼ 9.4 acres in SW¼SW¼ 19.6 acres in SE¼SW¼ 1.1 acres in NW¼SE¼ 13.5 acres in SW¼SE¼ 3.0 acres in SE¼SE¼ Section 13 14.6 acres in NE¼NE¼ 16.4 acres in NW¼NE¼ 31.8 acres in SW¼NE¼ 38.2 acres in SE¼NE¼ 13.7 acres in NE¼SE¼ 35.0 acres in NW¼SE¼ 26.5 acres in SW¼SE¼ 2.4 acres in SE¼SE¼ Section 14 5.0 acres in NE¼NE¼ 12.9 acres in SE¼NE¼ 38.3 acres in NE¼SE¼ 2.8 acres in NW¼SE¼ 19.0 acres in SE¼SE¼ Section 15 T. 39 S., R. 19 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated, Continued							37.6 acres in NE¼NE¼ 7.2 acres in NW¼NE¼ 2.7 acres in SW¼NE¼ 29.8 acres in SE¼NE¼ 12.1 acres in NW¼NW¼ 4.2 acres in SW¼NW¼ 1.1 acres in NE¼SE¼ 19.0 acres in SW¼SE¼ 31.0 acres in SE¼SE¼ Section 23 29.2 acres in NE¼NE¼ 13.4 acres in NW¼NE¼ 35.7 acres in SW¼NE¼ 39.1 acres in SE¼NE¼ 39.1 acres in NE¼NW¼ 34.2 acres in NW¼NW¼ 19.2 acres in SW¼NW¼ 40.0 acres in SE¼NW¼ 39.0 acres in NE¼SW¼ 25.5 acres in NW¼SW¼ 38.4 acres in SW¼SW¼ 40.0 acres in SE¼SW¼ 24.2 acres in NE¼SE¼ 37.8 acres in NW¼SE¼ 40.0 acres in SW¼SE¼ 30.5 acres in SE¼SE¼ Section 24 40.0 acres in NE¼NW¼ 39.1 acres in NW¼NW¼ 21.2 acres in SW¼NW¼ 9.7 acres in SE¼NW¼ Section 25 38.2 acres in NE¼NE¼ 39.1 acres in NW¼NE¼ 40.0 acres in SW¼NE¼ 38.7 acres in SE¼NE¼ 37.8 acres in NE¼NW¼ 36.5 acres in NW¼NW¼ 28.1 acres in SW¼NW¼ 39.7 acres in SE¼NW¼ 38.8 acres in NE¼SW¼ 38.2 acres in NW¼SW¼ 37.0 acres in SW¼SW¼ 40.0 acres in SE¼SW¼ 38.4 acres in NE¼SE¼ 40.0 acres in NW¼SE¼ 40.0 acres in SW¼SE¼ 38.7 acres in SE¼SE¼ Section 26 9.2 acres in NE¼NE¼ 4.0 acres in NE¼SE¼ 10.0 acres in SE¼SE¼ Section 27 3.8 acres in SE¼NE¼ 21.3 acres in NE¼SE¼ 5.9 acres in SW¼SE¼ 33.8 acres in SE¼SE¼ Section 29 4.9 acres in NE¼NE¼ 26.0 acres in NW¼NE¼ 4.7 acres in SW¼NE¼ 34.2 acres in NE¼NW¼ 2.4 acres in NW¼NW¼ 9.2 acres in SE¼NW¼ Section 30 T. 39 S., R. 19 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated, Continued							36.2 acres in NE¼NE¼ 35.7 acres in NW¼NE¼ 38.5 acres in SW¼NE¼ 36.6 acres in SE¼NE¼ 3.3 acres in NE¼NW¼ 5.3 acres in SE¼NW¼ 13.3 acres in NW¼SW¼ 32.7 acres in SW¼SW¼ Section 32 2.3 acres in NE¼NE¼ 37.3 acres in SW¼NE¼ 8.3 acres in SE¼NE¼ 6.8 acres in NE¼NW¼ 32.5 acres in NW¼NW¼ 39.1 acres in SW¼NW¼ 38.6 acres in SE¼NW¼ 40.0 acres in NE¼SW¼ 21.2 acres in NW¼SW¼ 2.1 acres in SW¼SW¼ 20.0 acres in SE¼SW¼ 18.1 acres in NE¼SE¼ 18.9 acres in NW¼SE¼ Section 33 39.1 acres in NE¼NE¼ 18.2 acres in NW¼NE¼ 39.2 acres in SW¼NE¼ 37.4 acres in SE¼NE¼ Section 34 1.1 acres in NE¼NW¼ 38.9 acres in NW¼NW¼ 9.5 acres in SW¼NW¼ 0.5 acres in SE¼NW¼ Section 35 T. 39 S., R. 19 E., W.M.
							23.4 acres in NW¼NW¼ 20.2 acres in SW¼NW¼ 40.8 acres in NE¼SW¼ 45.7 acres in NW¼SW¼ 47.4 acres in SW¼SW¼ 41.5 acres in SE¼SW¼ Section 18 38.5 acres in NW¼NW¼ 40.2 acres in SW¼NW¼ Section 19 T. 39 S., R. 20 E., W.M. 38.2 acres in NE¼NE¼ 26.5 acres in NW¼NE¼ 4.7 acres in SW¼NE¼ 39.1 acres in SE¼NE¼ 35.5 acres in NE¼NW¼ 28.3 acres in NW¼NW¼ 7.7 acres in SW¼NW¼ 4.1 acres in SE¼NW¼ 9.5 acres in SW¼SE¼ 34.0 acres in SE¼SE¼ Section 1 0.4 acre in NE¼NE¼ 0.1 acre in SE¼NE¼ Section 2 16.7 acres in SW¼NW¼ 11.9 acres in SE¼NW¼ 0.2 acre in NE¼SW¼ 12.4 acres in NW¼SW¼ Section 4 T. 40 S., R. 18 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated, Continued							0.2 acre in SE¼NE¼ 2.2 acres in NE¼SE¼ Section 5 38.2 acres in NE¼NE¼ 11.5 acres in NW¼NE¼ 6.5 acres in SW¼NE¼ 35.3 acres in SE¼NE¼ Section 12 4.9 acres in SW¼NE¼ 19.2 acres in SE¼NE¼ 22.5 acres in NE¼SE¼ 3.6 acres in NW¼SE¼ Section 13 40.0 acres in NE¼NE¼ 38.8 acres in NW¼NE¼ 31.3 acres in SW¼NE¼ 39.4 acres in SE¼NE¼ 35.0 acres in NE¼SE¼ 4.5 acres in NW¼SE¼ 1.3 acres in SE¼SE¼ Section 24 11.0 acres in NE¼NW¼ 9.6 acres in NW¼NW¼ 1.1 acres in SW¼NW¼ 2.3 acres in SE¼NW¼ Section 36 T. 40 S., R. 18 E., W.M. 9.6 acres in NW¼NW¼ 38.4 acres in SW¼NW¼ 32.0 acres in NW¼SW¼ Section 2 33.7 acres in NW¼NE¼ 37.3 acres in SW¼NE¼ 39.1 acres in NE¼NW¼ 38.2 acres in NW¼NW¼ 39.1 acres in SW¼NW¼ 40.0 acres in SE¼NW¼ 40.0 acres in NE¼SW¼ 39.1 acres in NW¼SW¼ 3.7 acres in SW¼SW¼ 38.6 acres in SE¼SW¼ 37.8 acres in NW¼SE¼ 40.0 acres in SW¼SE¼ 39.4 acres in SE¼SE¼ Section 3 38.2 acres in NE¼NE¼ 39.1 acres in NW¼NE¼ 40.0 acres in SW¼NE¼ 39.1 acres in SE¼NE¼ 39.1 acres in NE¼NW¼ 34.6 acres in NW¼NW¼ 5.4 acres in SW¼NW¼ 40.0 acres in SE¼NW¼ 37.5 acres in NE¼SW¼ 28.4 acres in SE¼SW¼ Section 4 9.3 acres in SW¼NE¼ 18.8 acres in SE¼NW¼ 14.2 acres in NE¼SW¼ 11.7 acres in NW¼SW¼ 39.1 acres in SW¼SW¼ 37.2 acres in SE¼SW¼ 25.5 acres in NE¼SE¼ 36.2 acres in NW¼SE¼ 39.1 acres in SW¼SE¼ 36.3 acres in SE¼SE¼ Section 5 T. 40 S., R. 19 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated, Continued							39.1 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 28.7 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 16 38.0 acres in $NE\frac{1}{4}NE\frac{1}{4}$ 21.6 acres in $NW\frac{1}{4}NE\frac{1}{4}$ 39.2 acres in $SW\frac{1}{4}NE\frac{1}{4}$ 36.3 acres in $SE\frac{1}{4}NE\frac{1}{4}$ 29.5 acres in $NE\frac{1}{4}NW\frac{1}{4}$ 37.1 acres in $NW\frac{1}{4}NW\frac{1}{4}$ 24.3 acres in $SW\frac{1}{4}NW\frac{1}{4}$ 35.8 acres in $SE\frac{1}{4}NW\frac{1}{4}$ 39.1 acres in $NE\frac{1}{4}SW\frac{1}{4}$ 8.2 acres in $NW\frac{1}{4}SW\frac{1}{4}$ 28.6 acres in $SE\frac{1}{4}SW\frac{1}{4}$ 17.3 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 34.4 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 40.0 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 9.0 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 17 38.2 acres in $SW\frac{1}{4}NE\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}NE\frac{1}{4}$ 34.5 acres in $NE\frac{1}{4}NW\frac{1}{4}$ 2.4 acres in $SW\frac{1}{4}NW\frac{1}{4}$ 21.7 acres in $SE\frac{1}{4}NW\frac{1}{4}$ 16.1 acres in $NE\frac{1}{4}SW\frac{1}{4}$ 27.9 acres in $NW\frac{1}{4}SW\frac{1}{4}$ 7.3 acres in $SW\frac{1}{4}SW\frac{1}{4}$ 16.5 acres in $SE\frac{1}{4}SW\frac{1}{4}$ Section 18 10.9 acres in $NW\frac{1}{4}NW\frac{1}{4}$ 39.1 acres in $SW\frac{1}{4}NW\frac{1}{4}$ 36.9 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 37.8 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 19 15.3 acres in $NE\frac{1}{4}NE\frac{1}{4}$ 39.4 acres in $NW\frac{1}{4}NE\frac{1}{4}$ 9.3 acres in $SW\frac{1}{4}NE\frac{1}{4}$ 9.8 acres in $SE\frac{1}{4}NE\frac{1}{4}$ 26.7 acres in $SW\frac{1}{4}SW\frac{1}{4}$ Section 20 38.2 acres in $NE\frac{1}{4}NE\frac{1}{4}$ 14.5 acres in $NW\frac{1}{4}NE\frac{1}{4}$ 10.8 acres in $SW\frac{1}{4}NE\frac{1}{4}$ 15.0 acres in $SE\frac{1}{4}NE\frac{1}{4}$ 30.8 acres in $NE\frac{1}{4}NW\frac{1}{4}$ 20.4 acres in $NW\frac{1}{4}NW\frac{1}{4}$ Section 21 9.8 acres in $NE\frac{1}{4}NW\frac{1}{4}$ 16.7 acres in $NW\frac{1}{4}NW\frac{1}{4}$ Section 22 39.1 acres in $NW\frac{1}{4}NW\frac{1}{4}$ 40.0 acres in $SW\frac{1}{4}NW\frac{1}{4}$ Section 29 39.1 acres in $NE\frac{1}{4}NE\frac{1}{4}$ 38.2 acres in $NW\frac{1}{4}NE\frac{1}{4}$ 37.6 acres in $NE\frac{1}{4}NW\frac{1}{4}$ 9.5 acres in $NW\frac{1}{4}NW\frac{1}{4}$ 40.0 acres in $SW\frac{1}{4}NW\frac{1}{4}$ 39.1 acres in $SE\frac{1}{4}NW\frac{1}{4}$ 40.0 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 40.0 acres in $NW\frac{1}{4}SE\frac{1}{4}$ 38.5 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 36.8 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 30 18.3 acres in $NE\frac{1}{4}NE\frac{1}{4}$ 23.0 acres in $NW\frac{1}{4}NE\frac{1}{4}$ 6.8 acres in $NE\frac{1}{4}SE\frac{1}{4}$ 30.0 acres in $SW\frac{1}{4}SE\frac{1}{4}$ 33.0 acres in $SE\frac{1}{4}SE\frac{1}{4}$ Section 31 T. 40 S., R. 19 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated, Continued							4.5 acres in NW¼NW¼ 19.5 acres in SW¼NW¼ 40.0 acres in NE¼SW¼ 39.4 acres in NW¼SW¼ 23.0 acres in SW¼SW¼ Section 32 T. 40 S., R. 19 E., W.M. 28.0 acres in NE¼NE¼ 0.3 acre in NW¼NE¼ 4.4 acres in SW¼NE¼ 37.3 acres in SE¼NE¼ 39.1 acres in NE¼NW¼ 34.9 acres in NW¼NW¼ 0.1 acre in NE¼SW¼ 1.6 acres in SE¼SW¼ 38.7 acres in NE¼SE¼ 40.0 acres in NW¼SE¼ 36.8 acres in SW¼SE¼ 37.3 acres in SE¼SE¼ Section 1 15.6 acres in NE¼NE¼ 7.0 acres in SE¼NE¼ 6.0 acres in NE¼SE¼ 4.0 acres in NW¼SE¼ Section 12 T. 41 S., R. 18 E., W.M. 4.0 acres in NE¼NE¼ 10.0 acres in NW¼NE¼ 38.2 acres in NW¼NW¼ 39.2 acres in SW¼NW¼ 39.1 acres in NE¼SW¼ 39.3 acres in NW¼SW¼ 39.4 acres in SW¼SW¼ 39.1 acres in SE¼SW¼ 21.8 acres in NE¼SE¼ 35.2 acres in NW¼SE¼ 31.2 acres in SW¼SE¼ 27.9 acres in SE¼SE¼ Section 6 20.0 acres in NE¼NE¼ 38.1 acres in NW¼NE¼ 38.7 acres in SW¼NE¼ 39.4 acres in SE¼NE¼ 32.9 acres in NE¼NW¼ 38.7 acres in NW¼NW¼ 30.2 acres in SW¼NW¼ 32.0 acres in SE¼NW¼ 39.1 acres in NE¼SW¼ 27.6 acres in NW¼SW¼ 7.4 acres in SW¼SW¼ 16.0 acres in SE¼SW¼ 40.0 acres in NE¼SE¼ 39.1 acres in NW¼SE¼ 38.2 acres in SW¼SE¼ 39.1 acres in SE¼SE¼ Section 7 2.6 acres in NE¼NW¼ 19.0 acres in NW¼NW¼ 30.6 acres in SW¼NW¼ 23.3 acres in NW¼SW¼ 18.0 acres in SW¼SW¼ Section 8 T. 41 S., R. 19 E., W.M.

Name and Postoffice Address of Appropriator	Date of Relative Priority	Amount Cubic Feet Per Second	Number Acres	Use	Name of Ditch	Stream	Description of Land or Place of Use
Lakeview Water Users, Incorporated. Continued							36.0 acres in NW¼SW¼ 24.0 acres in SW¼SW¼ 18.7 acres in NW¼SE¼ 38.0 acres in SW¼SE¼ Section 17 25.0 acres in NE¼SE¼ Section 18 17.0 acres in SW¼NE¼ 24.0 acres in NE¼SW¼ 4.5 acres in NW¼SE¼ Section 20 T. 41 S., R. 19 E., W.M.

And the State Engineer of Oregon, being now fully advised in the premises, it is hereby CONSIDERED AND ORDERED that the inchoate water rights established in the name of the Goose Lake Valley Irrigation Company by decree of the Circuit Court for Lake County, dated May 15, 1923, be and the same are hereby determined to be completed and perfected to the extent as set forth in the foregoing Supplemental Findings and Order of Determination.

Dated at Salem, Oregon this 5th day of October, 1960.

Lewis A. Stanley

LEWIS A. STANLEY
State Engineer