REPORT NO. 7

W.N. Gibson

SUMMARY DATA

and

STORAGE DATA AND HYDROGRAPHS (Special Summary Reports)

for

BEAR RIVER COMPACT ENGINEERING COMMITTEE

April 12, 1949

Prepared By

W. V. Iorns, Project Engineer
U. S. Geological Survey

S U M M A R Y D A T A

BEAR RIVER COMPACT ENGINEERING COMMITTEE

April 12, 1949

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U. S. Geological Survey

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Plate No.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

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PLATE 1.

Monthly and annual discharge, in Acre-Feet, of Bear River Below Stewart Dam

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	29,600	26,500	14,800	14,370	15,910	12,520	7,350	21,080	1,730	3,240	2,100	2,820	152,000
1925	7,430	6,720	5,650	6,760	8,280	3,320	13,300	3,380	3,810	7,870	4,730	8,630	79,880
1926	14,800	11,200	9,650	7,380	8,390	10,500	23,600	26,100	7,020	6,150	2,090	1,900	128,800
1927	4,980	5,300	4,370	5,110	4,600	9,790	563	6,160	31,800	21,500	4,840	6,710	105,700
1928	13,100	5,090	4,930	6,300	3,710	1,240	1,050	3,220	24,700	12,300	3,840	4,500	83,980
1929	6,750	10,100	6,940	8,300	6,330	2,550	1,010	1,070	24,900	20,900	8,660	10,900	108,400
1930	14,700	13,300	13,100	9,170	5,550	7,320	1,120	23,500	21,000	8,650	13,700	12,000	143,100
1931	8,810	9,340	8,620	8,750	7,410	4,270	3,350	702	480	67	119	137	52,000
1932	694	2,070	415	422	835	559	391	516	3,220	19,950	6,800	7,660	43,520
1933	3,250	532	506	553	444	492	476	676	11,100	6,330	2,640	1,550	28,550
1934	4,180	2,020	2,030	1,110	611	430	298	123	119	61	61	60	11,100
1935	246	238	246	290	313	357	240	301	337	411	426	432	3,840
1936	1,560	738	605	482	434	567	801	579	399	534	631	1,760	9,090
1937	10,170	2,100	5,540	4,210	3,410	881	716	589	575	1,020	2,070	1,700	32,980
1938	5,340	1,240	1,290	793	2,030	849	476	547	728	799	778	5,120	19,990
1939	2,850	2,790	2,520	1,630	520	538	476	492	476	1,760	516	2,140	16,710
1940	7,600	2,760	528	426	391	420	319	147	147	123	71	107	13,040
1941	4,110	5,680	4,790	3,690	1,840	311	200	619	748	603	553	484	23,630
1942	541	615	623	962	1,500	591	365	561	764	530	498	349	7,900
1943	4,550	6,830	1,090	912	857	768	841	1,490	1,540	1,370	9,570	8,270	38,090
1944	8,000	3,220	1,530	972	690	766	674	823	8,830	19,160	4,710	1,750	51,120
1945	706	623	609	659	603	655	655	815	1,230	1,650	9,150	1,590	18,940
1946	1,330	603	2,790	522	401	569	565	972	1,150	1,360	1,340	1,260	12,860
1947	996	881	926	764	811	1,040	1,000	1,380	1,550	2,600	2,640	1,270	15,860

Note: Annual totals are rounded off.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets

PLATE 2.

Monthly and annual ~~discharge~~ discharge, in Acre-Feet, of Dingle Inlet ~~River~~ Canal near Dingle

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	707	179	184	0	115	123	595	2,069	520	373	1,070	250	6,180
1925	246	119	60	0	0	61	30	61	510	676	714	861	3,340
1926	730	60	123	123	111	151	0	603	155	578	861	170	3,660
1927	209	38	167	0	0	0	30	698	534	123	760	960	3,520
1928	212	60	61	91	59	738	337	770	208	212	764	119	3,630
1929	579	351	175	95	0	71	351	290	119	296	446	167	2,940
1930	163	175	159	123	71	111	137	188	119	179	504	6	1,940
1931	0	0	0	0	0	0	61	0	0	0	0	0	61
1932	0	0	0	0	0	0	95	35	28	228	400	107	893
1933	0	0	0	0	0	0	18	121	0	0	0	0	139
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	119	0	0	16	664	0	799
1936	87	196	0	0	0	0	1,200	3,510	413	583	292	524	6,800
1937	0	424	184	0	0	0	666	401	0	0	244	60	1,980
1938	200	60	61	123	111	123	119	305	32	145	674	690	2,640
1939	184	595	922	861	1,020	940	155	1,640	0	0	115	0	6,430
1940	0	0	0	0	0	0	103	0	0	0	0	0	103
1941	0	0	0	0	0	0	0	0	65	24	718	456	1,260
1942	333	268	246	184	167	184	139	276	214	61	446	115	2,630
1943	0	0	0	0	0	0	1,690	875	0	0	407	353	3,320
1944	123	119	123	123	115	123	1,020	970	514	240	371	165	4,006
1945	135	210	264	343	333	286	161	0	212	69	754	377	3,140
1946	89	0	0	0	0	270	506	543	214	462	774	702	3,560
1947	77	127	188	177	190	434	230	343	385	321	528	143	3,140

Note: Annual totals are rounded off.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets

PLATE 3.

Monthly and annual discharge, in Acre-feet, of Rainbow Inlet Canal near Lingle, Idaho

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	9,260	1,900	1,230	920	2,250	13,290	114,100	58,530	18,770	1,350	1,540	1,250	224,390
1925	1,720	1,490	1,720	1,840	3,880	33,250	32,500	45,300	29,200	20,800	3,920	5,350	180,920
1926	3,830	2,760	1,900	1,430	1,670	26,050	17,500	5,350	5,080	3,080	3,010	1,830	73,440
1927	2,800	2,510	2,240	2,020	3,350	9,060	47,600	61,500	20,400	3,500	3,320	2,660	161,940
1928	4,380	12,900	8,130	9,190	10,000	39,000	40,400	103,600	30,400	2,780	2,530	1,660	265,170
1929	2,120	1,300	1,350	1,920	4,010	17,500	56,500	81,500	42,500	2,440	3,430	3,200	219,720
1930	5,660	3,610	3,390	2,960	7,560	23,900	46,000	6,560	2,850	2,600	5,110	4,310	114,510
1931	7,870	3,450	2,650	2,310	3,040	10,930	8,660	1,310	873	536	690	750	43,060
1932	857	2,160	3,800	3,730	3,820	10,010	31,960	62,010	62,340	13,360	2,930	1,930	198,910
1933	8,240	9,360	6,930	9,030	7,690	13,700	20,800	22,100	26,100	2,530	1,650	1,430	129,560
1934	1,860	5,690	4,600	5,570	7,790	8,040	1,510	552	367	297	250	320	36,850
1935	1,280	2,040	2,250	2,560	3,170	5,780	8,170	5,140	32,140	6,280	1,020	657	70,490
1936	2,400	4,870	3,690	4,520	4,710	11,130	55,900	142,950	57,390	15,890	14,990	5,100	323,900
1937	1,230	9,980	3,810	4,490	5,010	15,820	77,000	83,070	17,740	15,870	4,750	1,430	240,200
1938	2,440	10,340	9,010	8,060	6,610	24,260	61,780	90,410	47,990	18,700	4,520	3,170	290,300
1939	11,820	9,940	8,610	8,280	7,150	44,610	47,860	30,260	2,440	1,500	1,980	1,670	176,100
1940	1,480	5,490	6,230	5,930	6,640	9,350	2,980	573	766	545	472	262	40,700
1941	247	561	579	1,640	3,920	17,650	7,450	3,060	33,000	14,630	8,640	6,210	98,710
1942	10,620	13,990	9,750	8,070	7,230	13,370	74,150	27,950	20,190	3,330	2,380	805	191,540
1943	1,320	2,030	5,720	4,970	6,020	31,490	82,110	73,500	43,020	19,940	4,100	853	275,100
1944	3,460	8,150	7,290	7,050	8,150	11,100	62,200	51,170	43,720	2,910	1,790	885	215,000
1945	8,210	7,660	6,360	7,010	7,050	16,840	22,120	29,200	44,090	22,110	9,080	14,130	194,800
1946	10,090	14,140	11,090	13,430	10,100	45,200	105,800	91,630	23,290	8,250	6,970	8,990	349,000
1947	12,970	11,660	14,600	9,490	11,960	53,100	42,920	80,010	70,220	31,290	15,930	12,610	372,800

Note: Annual totals are rounded off.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets

PLATE 4.

Monthly and annual discharge, in Acre-feet, of Combined Flow River near Bear River at Stewart

[Drainage area, _____ square miles] (Total Bear R. below Stewart + Rainbow + Dingle

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	39,567	28,579	16,214	15,290	18,275	25,933	122,045	81,679	21,020	4,963	4,710	4,320	382,570
1925	9,396	8,329	7,430	8,600	12,160	36,631	45,830	48,741	33,520	29,346	9,364	14,841	264,140
1926	19,360	14,020	11,673	8,933	10,171	36,701	41,100	32,053	12,255	9,808	5,961	3,900	205,900
1927	7,989	7,848	6,777	7,130	7,950	18,850	48,193	68,358	52,734	25,203	8,920	10,330	270,260
1928	17,692	18,050	13,121	15,581	13,769	40,978	41,787	107,590	55,308	15,292	7,334	6,279	352,780
1929	9,449	11,751	8,465	10,315	10,340	20,121	57,861	82,860	67,519	23,636	12,536	16,287	331,130
1930	20,523	17,085	16,649	12,253	13,181	31,331	47,257	30,248	23,969	11,429	19,314	16,316	259,550
1931	16,680	12,790	11,270	11,060	10,450	15,200	12,071	2,012	1,353	603	799	889	95,181
1932	1,551	4,230	4,215	4,152	4,655	10,569	32,446	62,561	65,588	33,538	10,130	9,697	243,333
1933	11,490	9,892	7,436	9,583	8,134	14,192	21,294	22,897	37,200	8,860	4,290	2,980	158,249
1934	6,040	7,710	6,630	6,680	8,401	8,470	1,808	675	486	358	311	383	47,950
1935	1,526	2,278	2,496	2,850	3,483	6,137	8,529	5,441	32,477	6,707	2,110	1,089	75,129
1936	4,047	5,804	4,295	5,002	5,144	11,697	57,901	147,039	58,202	16,397	15,913	7,384	338,790
1937	11,400	12,504	9,534	8,700	8,420	16,701	78,382	84,060	18,315	16,890	7,064	3,190	275,160
1938	7,980	11,640	10,361	8,976	8,751	25,232	62,375	91,262	48,750	19,644	5,972	11,980	312,930
1939	14,854	13,325	12,052	10,771	8,690	46,088	48,491	32,392	2,916	3,260	2,611	3,810	199,240
1940	9,080	8,250	6,758	6,356	7,031	9,770	3,402	720	913	668	543	369	53,843
1941	4,457	6,241	5,369	5,330	5,760	17,961	7,650	3,699	32,813	15,257	9,911	7,150	121,600
1942	11,494	14,873	10,619	9,216	8,897	14,145	74,654	28,787	21,168	3,921	3,024	1,269	202,070
1943	5,870	8,860	6,810	5,882	6,877	32,258	84,641	75,865	44,560	21,310	14,077	9,476	316,510
1944	11,583	11,489	8,943	8,145	8,955	11,989	63,894	52,963	59,064	23,310	6,971	2,800	270,126
1945	9,051	8,493	7,233	8,012	7,986	17,781	22,936	30,015	45,532	24,829	18,924	16,097	216,880
1946	11,509	14,743	13,880	13,952	10,501	46,039	106,871	93,145	24,654	10,073	9,084	10,952	365,420
1947	14,043	12,668	15,714	10,431	12,961	54,574	44,150	81,733	78,155	34,211	19,098	14,023	391,800
										24 year average		-	239,600

Note: Annual totals are sums of Bear River below Stewart, Rainbow and Dingle annual totals.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet ____ of ____ Sheets

PLATE 5

Monthly and annual discharge of Combined Flow, in Rainbow & Dingle Canals at or near _____

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	9,967	2,079	1,414	920	2,365	13,413	114,695	60,599	19,290	1,723	2,610	1,500	230,570
1925	1,966	1,609	1,780	1,840	3,880	33,311	32,530	45,361	29,710	21,476	4,634	6,211	184,260
1926	4,560	2,820	2,023	1,553	1,781	26,201	17,500	5,953	5,235	3,658	3,871	2,000	77,100
1927	3,009	2,548	2,407	2,020	3,350	9,060	47,630	62,198	20,934	3,703	4,080	3,620	164,560
1928	4,592	12,960	8,191	9,281	10,059	39,738	40,737	104,370	30,606	2,992	3,494	1,779	268,800
1929	2,699	1,651	1,525	2,015	4,010	17,571	56,851	81,790	42,619	2,736	3,876	5,387	222,730
1930	5,823	3,785	3,549	3,083	7,631	24,011	46,137	6,748	2,969	2,779	5,614	4,316	116,450
1931	7,870	3,450	2,650	2,310	3,040	10,930	8,721	1,310	873	536	680	752	43,141
1932	857	2,160	3,800	3,730	3,820	10,010	32,055	62,045	62,368	13,538	3,330	2,037	199,803
1933	8,240	9,360	6,930	9,030	7,690	13,700	20,818	22,221	26,100	2,530	1,650	1,430	129,699
1934	1,860	5,690	4,600	5,570	7,790	8,040	1,510	552	367	297	250	323	36,850
1935	1,280	2,040	2,250	2,560	3,170	5,780	8,289	5,140	32,140	6,296	1,684	657	71,289
1936	2,487	5,066	3,690	4,520	4,710	11,130	57,100	146,460	57,803	15,863	15,282	5,624	329,700
1937	1,230	10,404	3,994	4,490	5,010	15,820	77,666	83,471	17,740	15,870	4,994	1,490	242,180
1938	2,640	10,400	9,071	8,183	6,721	24,383	61,899	90,715	48,022	18,845	5,194	6,860	292,940
1939	12,004	10,535	9,532	9,141	8,170	45,550	48,015	31,900	2,440	1,500	2,095	1,670	182,530
1940	1,480	5,490	6,230	5,930	6,640	9,350	3,083	573	766	545	472	262	40,803
1941	347	561	579	1,640	3,920	17,650	7,450	3,080	32,065	14,654	9,358	6,666	97,970
1942	10,953	14,258	9,996	8,254	7,397	13,554	74,289	28,226	20,404	3,391	2,526	920	194,170
1943	1,320	2,030	5,720	4,970	6,020	31,490	83,800	74,375	43,020	19,940	4,507	1,206	278,420
1944	3,583	8,269	7,413	7,173	8,265	11,223	63,220	52,140	50,234	4,150	2,261	1,050	219,006
1945	8,345	7,870	6,624	7,353	7,383	17,126	22,281	29,200	44,302	23,179	9,774	14,507	197,940
1946	10,179	14,140	11,090	13,430	10,100	45,470	106,306	92,173	23,504	8,712	7,744	9,692	352,560
1947	13,047	11,787	14,788	9,667	12,150	53,534	43,150	80,353	76,605	31,611	16,458	12,753	375,940

Note: Annual totals are sums of Rainbow and Dingle annual totals.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets

PLATE 6.

Monthly and annual discharge, in Acre-feet, of Bear Lake Outlet Canal at Dike

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	4,800	10,000	57,400	61,260	29,870	15,570	3,660	23,520	63,090	72,030	68,540	61,590	491,330
1925	41,490	29,170	36,900	33,100	13,300	3,810	2,500	27,800	32,500	53,700	55,700	34,900	364,870
1926	17,500	23,000	17,000	29,500	13,500	4,490	774	24,300	53,000	52,000	67,000	61,900	363,960
1927	39,200	35,700	39,700	40,900	18,300	12,900	371	369	357	42,500	50,800	28,700	309,800
1928	7,810	3,030	1,840	1,480	1,380	1,480	1,430	1,480	4,880	44,300	61,900	46,400	176,510
1929	19,600	14,800	26,100	14,100	10,500	2,780	1,190	1,230	1,190	32,600	40,700	13,600	178,400
1930	6,920	1,800	1,840	4,680	3,370	2,770	298	5,360	26,300	61,000	38,600	22,900	175,940
1931	5,010	8,560	7,650	7,160	5,810	400	260	23,130	44,270	72,040	56,850	31,420	262,570
1932	5,590	890	760	800	750	800	770	800	770	12,510	45,610	11,100	81,150
1933	1,410	125	123	123	111	123	119	123	2,980	46,400	52,300	40,500	144,440
1934	2,580	655	615	676	333	184	2,980	55,900	45,600	49,400	52,100	26,400	237,420
1935	1,110	1,310	2,770	1,080	278	349	357	1,540	19,040	57,800	42,860	22,030	150,520
1936	1,410	595	448	184	173	184	179	184	11,950	36,740	26,860	16,430	95,340
1937	902	706	738	2,440	722	432	119	61	14,700	33,620	39,170	20,420	114,000
1938	793	714	722	264	167	184	179	184	14,240	22,910	29,170	17,220	86,750
1939	20,400	14,590	10,280	6,110	1,220	615	595	28,460	24,030	54,240	51,280	19,690	231,500
1940	1,310	357	617	623	345	369	357	34,820	45,980	63,910	51,260	12,440	212,400
1941	1,540	238	246	246	222	246	238	2,570	26,310	54,070	29,750	17,410	133,080
1942	8,860	7,540	879	11,300	1,110	1,230	417	430	31,510	50,550	51,500	24,830	190,200
1943	6,330	2,900	6,100	5,570	2,960	615	595	10,550	10,070	43,190	33,310	28,550	150,700
1944	2,980	1,780	9,990	1,950	230	246	238	1,560	1,540	38,760	54,130	21,480	134,900
1945	692	450	2,340	1,610	1,070	466	357	204	2,670	39,720	27,940	13,010	90,530
1946	2,310	714	680	627	518	524	426	3,430	24,060	47,360	52,580	26,320	159,540
1947	9,270	15,830	13,770	33,130	2,360	863	635	6,400	16,740	67,380	73,080	49,730	289,200

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets

PLATE 7.

Monthly and annual ~~discharge~~, in amounts in Acre feet of Bear River Diversion to Bear Lake Storage. (Rainbow + Dingle - Outlet)

_____, of _____ River at/near _____

[Drainage area, _____ square miles]

\+ = Stored in Bear Lake
− = Draft on Bear Lake Storage.

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	+ 5,167	− 7,921	− 55,986	− 60,340	− 27,505	− 2,157	+ 111,035	+ 37,079	− 43,800	− 70,307	− 85,930	− 60,090	− 260,760
1925	− 39,524	− 27,561	− 35,120	− 31,260	− 9,420	+ 29,501	+ 30,030	+ 17,561	− 2,790	− 32,224	− 51,066	− 28,689	− 180,610
1926	− 12,940	− 20,180	− 14,977	− 27,947	− 11,719	+ 21,711	+ 16,726	− 18,347	− 47,765	− 48,342	− 63,129	− 59,900	− 286,860
1927	− 36,191	− 33,152	− 37,293	− 38,880	− 14,950	− 3,840	+ 47,259	+ 61,829	+ 20,577	− 38,797	− 46,720	− 25,080	− 145,240
1928	− 3,218	+ 9,930	+ 6,351	+ 7,801	+ 8,679	+ 38,258	+ 39,307	+ 102,890	+ 25,728	− 41,308	− 57,506	− 44,621	+ 92,290
1929	− 16,901	− 13,149	− 24,575	− 12,085	− 6,490	+ 14,791	+ 55,661	+ 80,560	+ 41,429	− 29,864	− 36,824	− 8,213	+ 44,330
1930	− 1,097	+ 1,985	+ 1,709	− 1,597	+ 4,261	+ 21,241	+ 45,839	+ 1,388	− 23,331	− 58,221	− 32,986	− 18,584	− 59,390
1931	+ 2,860	− 5,110	− 5,000	− 4,850	− 2,770	+ 10,530	+ 8,461	− 21,820	− 43,397	− 71,504	− 56,180	− 30,668	− 219,449
1932	− 4,733	+ 1,270	+ 3,040	+ 2,930	+ 3,070	+ 9,210	+ 31,285	+ 61,245	+ 61,598	+ 1,078	− 42,280	− 9,063	+ 118,653
1933	+ 6,830	+ 9,235	+ 6,807	+ 8,907	+ 7,579	+ 13,577	+ 20,699	+ 22,098	+ 23,120	− 43,270	− 50,650	− 39,070	− 14,741
1934	− 720	+ 5,035	+ 3,985	+ 4,894	+ 7,457	+ 7,856	− 1,470	− 55,348	− 45,233	− 49,103	− 51,850	− 26,077	− 200,570
1935	+ 170	+ 730	− 520	+ 1,480	+ 2,892	+ 5,431	+ 7,932	+ 3,600	+ 13,100	− 51,504	− 41,176	− 21,373	− 79,231
1936	+ 1,077	+ 4,471	+ 3,242	+ 4,336	+ 4,537	+ 10,946	+ 56,921	+ 146,276	+ 45,853	− 20,877	− 11,578	− 10,806	+ 234,360
1937	+ 328	+ 9,698	+ 3,256	+ 2,050	+ 4,288	+ 15,388	+ 77,547	+ 83,410	+ 3,040	− 17,750	− 34,176	− 18,930	+ 128,180
1938	+ 1,847	+ 9,686	+ 8,349	+ 7,919	+ 6,554	+ 24,199	+ 61,720	+ 90,531	+ 33,782	− 4,065	− 23,976	− 10,360	+ 206,190
1939	− 8,396	− 4,055	− 748	+ 3,031	+ 6,950	+ 44,935	+ 47,420	+ 3,440	− 21,590	− 52,740	− 49,185	− 18,020	− 48,970
1940	+ 170	+ 5,133	+ 5,613	+ 5,307	+ 6,295	+ 8,981	+ 2,726	− 34,247	− 45,214	− 63,365	− 50,788	− 12,178	− 171,597
1941	− 1,193	+ 323	+ 333	+ 1,394	+ 3,698	+ 17,404	+ 7,212	+ 510	+ 5,755	− 39,416	− 20,392	− 10,744	− 35,110
1942	+ 2,093	+ 6,718	+ 9,117	− 3,046	+ 6,287	+ 12,324	+ 73,872	+ 27,796	− 11,106	− 47,159	− 48,974	− 23,910	+ 3,970
1943	− 5,010	− 870	− 380	− 600	+ 3,060	+ 30,875	+ 83,205	+ 63,825	+ 32,950	− 23,250	− 28,803	− 27,344	+ 127,720
1944	+ 603	+ 6,489	− 2,577	+ 5,223	+ 8,035	+ 10,977	+ 62,982	+ 50,580	+ 48,694	− 34,610	− 51,869	− 20,430	+ 84,106
1945	+ 7,653	+ 7,420	+ 4,284	+ 5,743	+ 6,313	+ 16,660	+ 21,924	+ 28,996	+ 41,632	− 16,541	− 18,166	+ 1,497	+ 107,410
1946	+ 7,869	+ 13,426	+ 10,410	+ 12,803	+ 9,582	+ 44,946	+ 105,880	+ 88,743	− 556	− 38,648	− 44,836	− 16,628	+ 193,020
1947	+ 3,777	− 4,043	+ 1,018	− 23,463	+ 9,790	+ 52,671	+ 42,515	+ 73,953	+ 59,865	− 35,769	− 56,622	− 36,977	+ 86,740

Note: Annual totals for diversions from Rainbow, Dingle and outlet annual totals

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets
PLATE 8.

Gage height in feet of Bear Lake on first of each month
(Add 5,900 to obtain elevation on system datum)

Monthly and annual discharge, in _____, of _____ River at near _____

Elev. 5902.00 = 0 Ac. Ft.
Elev. 5925.00 = 1,516,600 Ac. Ft.

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	21.73			21.08	20.30	20.11	20.38	22.17	22.80	22.13	21.00	19.52	
1925	18.32	17.77	17.05	16.72	16.45	16.51	17.34	18.05	18.67	18.74	18.15	17.11	
1926	16.57	16.00	15.56	15.25	14.92	14.96	15.71	16.20	16.05	15.08	14.08	12.90	
1927	11.58	10.80	10.13	9.26	8.92	8.98	9.46	10.48	11.75	12.28	11.35	10.16	
1928	9.78	9.59	9.76	9.86	9.95	10.17	11.30	12.11	13.95	14.65	13.75	12.49	
1929	11.30	11.20	10.90	10.64	10.63	10.74	11.38	12.77	14.24	15.03	14.34	13.57	
1930	13.35	13.07	12.83	12.85	12.93	13.20	13.85	14.85	15.09	14.62	13.43	12.94	
1931	12.38	12.33	12.02	11.86	11.90	11.97	12.36	12.68	12.38	11.41	9.76	8.47	
1932	7.59	7.37	7.18	7.32	7.56	7.82	8.26	9.36	10.47	11.70	11.70	10.77	
1933	10.25	10.13	10.16	10.18	10.44	10.74	11.05	11.79	12.48	12.93	11.92	10.61	
1934	9.60	9.39	9.25	9.37	9.50	9.74	9.97	9.90	8.91	7.78	6.60	5.30	
1935	4.24	4.02	4.06	4.06	4.06	4.35	4.65	5.19	5.29	5.65	4.42	3.27	
1936	2.35	2.07	2.02	2.06	2.38	2.83	3.25	4.76	7.62	8.78	8.27	7.95	
1937	7.42	7.38	7.61	7.70	7.80	8.05	8.57	10.22	12.00	12.20	11.95	10.92	
1938	10.25	10.15	10.27	10.46	10.58	10.76	11.50	12.83	14.60	15.22	15.02	14.31	
1939	13.94	13.56	13.32	13.30	13.46	13.68	14.67	15.58	15.80	15.26	14.15	13.02	
1940	12.50	12.25	12.13	12.18	12.31	12.52	12.87	12.95	12.31	11.28	9.88	8.55	
1941	8.26	8.16	8.00	8.01	8.07	8.18	8.70	8.96	9.10	8.90	8.38	7.77	
1942	7.20	7.18	7.18	7.32	7.30	7.61	8.11	9.57	10.24	10.01	8.81	7.73	
1943	7.10	6.86	6.72	6.64	6.66	6.88	7.96	9.83	11.18	12.05	11.52	10.76	
1944	10.00	9.81	9.81	9.71	9.86	10.17	10.65	12.12	13.12	14.04	13.12	11.78	
1945	11.11	11.01	11.09	11.09	11.21	11.43	11.85	12.42	13.17	14.07	13.72	13.13	
1946	12.85	12.84	13.21	13.44	13.77	14.03	15.10	17.25	19.04	19.10	18.28	17.49	

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets
PLATE 9.

Contents of Bear Lake on the first of each month
(Contents in Acre-Feet above elevation of 5,902')

Monthly and annual discharge, in _____, of _____ River at or near _____

Elev. 5902.00 = 0 Ac. Ft.
Elev. 5925.00 = 1,516,600 Ac. Ft.

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	1,286,000			1,240,500	1,185,900	1,172,600	1,191,500	1,316,900	1,361,300	1,314,100	1,234,900	1,131,400	X
1925	1,048,000	1,009,900	960,400	937,800	919,300	923,400	980,300	1,029,200	1,072,200	1,077,100	1,036,200	964,500	X
1926	927,500	888,600	858,700	837,800	815,600	818,300	868,900	902,300	892,000	826,400	759,400	680,900	X
1927	594,400	543,700	500,600	444,900	423,300	427,100	457,700	523,000	605,400	640,100	579,400	502,500	None
1928	478,200	466,100	476,900	483,300	489,100	503,200	576,200	629,000	750,600	797,600	737,200	653,800	
1929	576,200	569,700	550,200	533,300	532,600	539,800	581,400	672,300	770,100	823,000	776,800	725,300	
1930	710,600	692,100	676,300	677,600	682,900	700,700	744,000	811,000	827,000	795,500	716,000	683,500	
1931	646,700	643,400	623,100	612,600	615,200	619,800	645,400	666,400	646,700	583,400	476,900	394,700	None
1932	339,500	325,700	313,800	322,600	337,600	353,800	381,500	451,300	522,400	602,200	602,200	541,800	None
1933	508,300	500,600	502,500	503,800	520,500	539,800	560,000	608,000	653,200	682,900	616,500	531,400	None
1934	466,700	453,300	444,300	452,000	460,300	475,700	490,400	485,900	422,600	351,300	277,800	197,800	None
1935	133,500	120,300	122,700	122,700	122,700	140,100	158,200	191,100	197,200	219,200	144,300	75,300	None
1936	20,600	4,100	1,200	3,500	22,400	49,100	74,100	164,900	341,300	414,400	382,100	362,000	None
1937	328,800	326,300	340,700	346,300	352,600	368,200	401,100	506,400	621,800	634,900	618,500	551,500	None
1938	508,300	501,900	509,600	521,700	529,400	541,100	589,200	676,300	794,200	835,700	822,300	774,800	?
1939	750,000	724,600	708,600	707,300	718,000	732,600	798,900	860,000	875,000	838,400	764,000	688,800	X
1940	654,500	638,200	630,300	633,600	642,100	655,800	678,900	684,200	642,100	574,900	484,600	399,800	?
1941	381,500	375,200	365,100	365,700	369,500	376,400	409,300	425,800	434,700	422,000	389,000	350,700	None
1942	315,100	313,800	313,800	322,600	321,300	340,700	372,000	464,800	507,700	492,900	416,300	348,200	None
1943	308,800	293,900	285,200	280,300	281,500	295,200	362,600	481,400	568,400	625,000	590,500	541,100	None
1944	492,300	480,100	480,100	473,700	483,300	503,200	534,000	629,600	695,400	756,700	695,400	607,400	?
1945	563,800	557,400	562,600	562,600	570,400	584,600	612,000	649,300	698,700	758,700	735,200	796,100	?
1946	677,600	676,900	701,400	716,600	738,600	756,000	827,700	974,000	1,098,000	1,102,000	1,045,000	990,600	X
1947	950,800	945,300	938,400	953,500	929,600	958,300	1,031,000	1,078,000	1,176,000	1,252,000	1,211,000	1,146,000	X

9—2300

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets

PLATE 10.

Change in contents in Bear Lake Storage in Acre-Feet.

Monthly and annual ~~discharge~~, in _____, of _____ River at near _____ Monthly Change in contents from first of month to first of month (+ increase) (- decrease)

[Drainage area, _____ square miles]

Annual Change in contents 1st of Oct. to 1st Oct.

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924				-54,600	-13,300	+18,900	+125,400	+44,400	-47,200	-79,200	-103,500	-83,400	-238,000
1925	-38,100	-49,500	-22,600	-18,500	+ 4,100	+56,900	+48,900	+43,000	+ 4,900	-40,900	-71,700	-37,000	-120,500
1926	-38,900	-29,900	-20,900	-22,200	+ 2,700	+50,600	+33,400	-10,300	-65,600	-67,000	-78,500	-86,500	-333,100
1927	-50,700	-43,100	-55,700	-21,600	+ 3,800	+30,600	+65,300	+82,400	+34,700	-60,700	-76,900	-24,300	-116,200
1928	-12,100	+10,800	+ 6,400	+ 5,800	+14,100	+73,000	+52,800	+121,600	+47,000	-60,400	-83,400	-77,600	+ 98,000
1929	- 6,500	-19,500	-16,900	- 700	+ 7,200	+41,600	+90,900	+97,800	+52,900	-46,200	-51,500	-14,700	+134,400
1930	-18,500	-15,800	+ 1,300	+ 5,300	+17,800	+43,300	+67,000	+16,000	-31,500	-79,500	-32,500	-36,800	- 63,900
1931	- 3,300	-20,300	-10,500	+ 2,600	+ 4,600	+25,600	+21,000	-19,700	-63,300	-106,500	-82,200	-55,200	-307,200
1932	-13,800	-11,900	+ 8,800	+15,000	+16,200	+27,700	+69,800	+71,100	+79,800	0	-60,400	-33,500	+168,800
1933	- 7,700	+ 1,900	+ 1,300	+16,700	+19,300	+20,200	+48,000	+45,200	+29,700	-66,400	-85,100	-64,700	-41,600
1934	-13,400	-9,000	+ 7,700	+ 8,200	+15,400	+14,700	- 4,500	-63,300	-71,300	-73,500	-80,000	-64,300	-333,200
1935	-13,200	+ 2,400	0	0	+17,400	+18,100	+32,900	+ 6,100	+22,000	-74,900	-69,000	-54,700	-112,900
1936	-16,500	- 2,900	+ 2,300	+18,900	+26,700	+25,000	+90,800	+176,400	+73,100	-32,300	-20,100	-33,200	+308,200
1937	- 2,500	+14,400	+ 5,600	+ 6,300	+15,600	+32,900	+105,300	+115,400	+13,100	-16,400	-67,000	-43,200	+179,500
1938	- 6,400	+ 7,700	+12,100	+ 7,700	+11,700	+48,100	+87,100	+117,900	+41,500	-13,400	-47,500	-24,800	+241,700
1939	-25,400	-16,000	- 1,300	+10,700	+14,600	+66,300	+61,100	+15,000	-36,600	-74,400	-75,200	-34,300	- 95,500
1940	-16,300	- 7,900	+ 3,300	+ 8,500	+13,700	+23,100	+ 5,300	-42,100	-67,200	-90,300	-84,800	-18,300	-273,000
1941	- 6,300	-10,100	+ 600	+ 3,800	+ 6,900	+32,900	+16,500	+ 8,900	-12,700	-33,000	-38,300	-35,600	- 66,400
1942	- 1,300	0	+ 8,800	- 1,300	+19,400	+31,300	+92,800	+42,900	-14,800	-76,600	-68,100	-39,400	- 6,300
1943	-14,900	- 8,700	- 4,900	+ 1,200	+13,700	+67,400	+118,800	+87,000	+56,600	-34,500	-49,400	-43,800	+183,500
1944	-12,200	0	- 6,400	+ 9,600	+19,900	+30,800	+95,600	+65,800	+61,300	-61,300	-88,000	-43,600	+ 71,500
1945	- 6,400	+ 5,200	0	+ 7,800	+14,200	+27,400	+37,300	+49,400	+60,000	- 23,500	+60,900	-118,500	+113,800
1946	-700	+24,500	+15,200	+22,000	+17,400	+71,700	+146,300	+124,000	+ 4,000	-57,000	-54,400	-39,800	+273,200
1947	- 5,500	- 6,900	+15,100	-23,900	+28,700	+72,700	+47,000	+98,000	+76,000	-41,000	-65,000	-50,000	+145,200

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets
PLATE 11.

Monthly and annual discharge, in _____, of _____ River at near _____

[Drainage area, _____ square miles]

Increase and decrease in Bear Lake storage exclusive of Bear River water.

Change in contents in Bear Lake Storage - Bear R. diversion to Bear Lake Storage.

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924				+ 5,740	+14,205	+21,057	+14,365	+ 7,321	- 3,400	- 8,893	-17,570	-23,310	+22,760
1925	+ 1,424	-21,939	-12,520	+12,760	+13,520	+27,399	+18,870	+25,439	+ 7,690	- 8,676	-20,634	- 8,311	+60,110
1926	-25,960	- 9,720	+ 5,923	+ 5,747	+14,419	-28,889	+16,674	+ 8,047	-17,835	-18,658	-15,371	-26,600	-46,240
1927	-14,509	- 9,948	-18,407	+17,280	+18,750	+34,440	+18,041	+20,571	+14,123	- 21,903	-30,180	+ 780	+29,040
1928	- 8,882	+ 870	+ 49	- 2,001	+ 5,421	+34,472	+13,493	+18,710	+21,272	-19,092	-25,894	-32,979	+ 5,710
1929	+10,401	- 6,351	+ 7,675	+11,385	+13,690	+26,809	+35,239	+17,240	+11,471	-16,336	-14,676	- 6,487	+90,070
1930	-17,403	-17,785	- 409	+ 6,897	+13,539	+22,059	+21,161	+14,612	- 8,169	- 21,279	+ 486	-18,216	- 4,510
1931	- 6,160	-15,190	- 5,500	+ 7,450	+ 7,370	+15,070	+12,539	+ 2,120	-19,903	-34,996	-26,020	-24,532	-87,751
1932	- 9,067	-13,170	+ 5,760	+12,070	+13,130	+18,490	+38,515	+ 9,855	+18,202	- 1,078	-18,120	-24,437	+50,147
1933	-14,530	- 7,335	- 5,507	+ 7,793	+11,721	+ 6,623	+27,301	+23,102	+ 6,580	-22,530	-34,450	-25,630	-28,859
1934	-12,680	-14,035	+ 3,715	+ 3,406	+ 7,943	+ 6,844	- 3,030	- 7,952	-26,067	-24,397	-28,150	-38,223	-132,630
1935	-13,370	+ 1,670	+ 520	- 1,480	+14,508	+12,669	+24,968	+ 2,500	+ 8,900	-23,396	-27,824	-33,327	-33,669
1936	-17,577	- 7,371	- 942	+14,564	+22,163	+14,054	+33,879	+30,124	+27,247	-11,423	- 8,522	-22,394	+73,840
1937	- 2,828	+ 4,702	+ 2,344	+ 4,250	+11,312	+17,512	+27,753	+31,990	+10,060	+ 1,350	-32,824	-24,270	+51,320
1938	- 8,247	- 1,986	+ 3,751	- 219	+ 5,146	+23,901	+25,380	+27,369	+ 7,718	- 9,335	-23,524	-14,440	+35,510
1939	-17,004	-11,945	- 552	+ 7,669	+ 7,650	+21,365	+13,680	+11,560	-15,010	-21,660	-26,015	-16,280	-46,530
1940	-16,470	-13,033	- 2,313	+ 3,193	+ 7,405	+14,119	+ 2,574	- 7,853	-21,986	-26,935	-34,012	- 6,122	-101,403
1941	- 5,107	-10,423	+ 267	+ 2,406	+ 3,202	+15,496	+ 9,288	+ 8,390	-18,455	+ 6,416	-17,908	-24,856	- 31,290
1942	- 3,393	- 6,718	- 311	+ 1,746	+13,113	+18,976	+18,928	+15,104	- 3,694	-29,441	-19,126	-15,490	-10,270
1943	- 9,890	- 7,830	- 4,520	+ 1,800	+10,640	+36,525	+35,595	+23,175	+23,650	-11,250	-20,597	-21,456	+55,780
1944	-12,803	- 6,489	- 3,823	+ 4,377	+11,865	+19,823	+32,618	+15,220	+12,606	- 26,690	-36,131	-23,170	-12,606
1945	-14,053	- 2,220	- 4,284	+ 2,057	+ 7,887	+10,740	+15,376	+20,404	+18,368	- 6,959	+79,066	-19,997	+ 6,390
1946	- 8,569	+11,074	+ 4,790	+ 9,197	+ 7,818	+26,754	+40,420	+35,257	+ 4,556	-18,352	- 9,564	-23,172	+80,180
1947	- 9,277	- 2,857	+14,082	- 437	+18,910	+20,029	+ 4,485	+24,047	+16,135	- 5,231	- 8,378	-13,023	+58,460
												Total	+85,844
												Mean	+ 3,577

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

Sheet _____ of _____ Sheets
PLATE 12.

Monthly and annual discharge, in Acre-Feet, of Bear River near Collinston, Utah

[Drainage area, _____ square miles]

YEAR	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	ANNUAL
1924	121,000	109,000	142,000	145,000	147,000	122,000	181,000	99,600	38,100	25,900	25,700	46,800	1,200,000
1925	72,600	85,100	94,700	104,000	121,000	113,000	150,000	144,000	89,800	18,800	34,400	54,200	1,080,000
1926	76,900	85,700	87,300	84,200	85,500	108,000	143,000	96,500	11,900	23,800	29,100	42,300	874,000
1927	77,500	85,700	94,700	103,000	114,000	115,000	144,000	160,000	105,000	18,900	26,700	33,100	1,080,000
1928	67,600	76,200	78,100	79,300	73,000	122,000	123,000	149,000	48,400	3,540	19,400	38,300	878,000
1929	63,300	81,500	85,500	75,000	70,000	144,000	159,000	147,000	55,200	7,620	2,850	32,300	923,000
1930	70,700	70,200	68,200	51,100	89,900	88,200	94,300	68,300	9,340	4,770	31,900	36,600	684,000
1931	57,900	64,900	62,100	62,100	63,300	75,000	52,000	10,200	1,690	1,620	1,590	1,570	454,000
1932	12,300	34,600	44,500	44,200	51,400	116,000	167,000	200,000	85,700	9,200	2,500	12,700	780,000
1933	30,600	44,400	52,900	52,100	51,500	89,200	115,000	137,000	46,700	2,060	1,960	1,930	625,000
1934	20,090	43,860	60,310	57,110	48,650	48,700	28,860	1,680	1,400	1,370	1,200	6,590	319,800
1935	18,970	42,790	43,110	36,210	50,810	67,980	72,320	77,970	37,500	1,310	1,230	1,120	451,300
1936	21,210	39,610	38,760	51,060	66,450	80,130	207,500	234,000	79,180	1,290	1,280	6,080	826,600
1937	45,010	64,580	61,230	55,780	59,350	132,900	134,400	158,600	40,310	6,380	1,080	3,220	762,800
1938	51,600	51,790	70,470	58,760	71,670	111,800	158,400	172,400	32,880	20,440	1,090	5,730	807,000
1939	53,610	85,750	82,160	59,680	61,710	128,700	105,400	51,940	2,950	1,290	1,210	25,490	659,900
1940	45,000	39,760	48,500	54,050	65,870	85,960	73,210	15,790	2,070	1,250	1,210	15,380	448,000
1941	37,380	48,060	52,280	47,550	73,450	84,290	88,060	53,340	6,710	1,360	4,330	9,240	506,000
1942	47,930	50,700	61,680	57,980	61,320	99,900	159,000	132,800	20,430	2,180	1,290	6,850	702,100
1943	36,520	55,340	66,750	79,150	79,380	113,000	206,100	126,200	119,100	9,090	6,920	13,690	911,200
1944	56,900	67,560	64,920	56,270	57,740	86,610	102,900	118,100	77,890	1,980	1,570	1,800	694,000
1945	27,520	53,090	46,910	49,500	92,040	92,370	91,880	137,600	162,600	5,720	22,480	40,560	822,300
1946	47,950	83,410	86,040	86,620	66,060	151,400	258,900	159,400	64,550	8,170	35,180	42,200	1,090,000
1947	75,490	99,340	108,200	89,730	93,940	110,700	115,800	129,500	86,810	14,630	51,120	60,630	1,036,000
1948	81,460	94,790	98,980	79,010	93,440	88,570	160,300	213,700	104,600	18,310	28,520	38,420	1,100,000

SUMMARY OF BEAR RIVER STORAGE OPERATION EXCLUDING T

(Quantitie

Water Year	Oct. 1 to Mar. 31				April 1 to start of storage draft				Start of storage dra Sept. 30, whiche		
	Flow at Stewart (Below Stewart + Rainbow + Dingle)	Stored in Bear Lake	Draft on Bear Lake	By-passing Bear Lake	Date Storage Ended	Flow at Stewart	Stored in Bear Lake	By-passing Bear Lake (6) - (7)	Date Storage Draft Started	Date Storage Draft Ended	Flow at Stewart
	1	2	3	4	5	6	7	8	9	10	11
924	143,858		148,740	143,858	May 25	192,660	149,810	42,850	May 26	Sept.30	46,07
925	82,546		113,384	82,546	*	113,912	59,884	54,028	*	Sept.30	67,76
926	100,858		66,052	100,858	Apr 30	41,100	16,726	24,374	May 1	Sept.30	63,97
927	56,544		164,306	56,544	July 4	173,309	129,861	43,448	July 5	Sept.30	40,42
928	119,191	67,801		51,390	June 26	202,139	171,211	30,928	June 27	Sept.30	31,15
929	70,441		58,409	70,441	July 5	213,893	177,878	36,015	July 6	Sept.23	42,16
930	111,022	26,502		84,520	May 21	70,432	51,553	18,879	May 22	Sept.30	78,10
931	77,450		4,340	77,450	May 6	12,482	8,489	3,993	May 7	Sept.30	5,24
932	29,372	14,787		14,585	**	188,721	165,865	22,856	**	Sept.30	21,67
933	60,727	52,935		7,792	June 27	79,997	68,051	11,946	June 28	Sept.30	17,52
934	43,931	28,507		15,424	Apr 19	1,350	1,019	331	Apr 20	Sept.30	2,67
935	18,770	10,183		8,587	June 23	40,652	30,541	10,111	June 24	Sept.30	15,70
936	35,989	28,609		7,380	June 21	258,291	252,436	5,855	June 22	Sept.30	44,54
937	67,259	35,008		32,251	June 16	177,786	170,767	7,019	June 17	Sept.27	29,71
938	72,940	58,554		14,386	***	209,789	196,610	13,179	***	Sept.26	28,65
939	105,780	41,717		64,063	May 15	69,055	64,317	4,738	May 16	Sept.30	24,42
940	47,245	31,499		15,746	May 6	3,557	2,774	783	May 7	Sept.30	3,05
941	45,118	21,959		23,159	****	36,652	26,100	10,683	****	Sept.21	37,45
942	69,244	33,493		35,751	June 6	109,909	106,161	3,748	June 7	Sept.30	22,91
943	66,557	27,075		39,482	June 25	200,175	182,250	17,925	June 26	Sept.30	49,75
944	61,104	28,750		32,354	July 8	186,300	163,016	23,284	July 9	Sept.30	22,70
945	58,556	48,073		10,483	July 5	104,655	98,066	6,589	July 6	Sept.6	41,12
946	110,624	99,036		11,588	June 11	213,420	206,552	6,868	June 12	Sept.30	41,36
947	120,391	39,750		80,641	July 7	217,643	179,975	37,668	July 8	Sept.30	53,72
tal	1,775,517	694,238	555,231	1081279		3,117,879	2679912	437,967			831,90
erage	73,980	28,926	23,135	45,053		129,912	111,663	18,249			34,66

* Storage draft periods - April 30 - May 7; June 13 - Sept. 30.

*** Storage draft periods - June 21-29; July 13 - Aug. 30; Sept. 10-26.

RARY PONDAGE IN SODA, ONEIDA AND CUTLER RESERVOIRS

acre-feet)

o end of storage draft or comes first.				End of storage draft to Sept. 30.				Annual			
Draft on Bear Lake	By-passing Bear Lake Col. (11)	Storage passing Collinston	Storage to Irrigation (12) - (14)	Day after end of Storage Draft	Flow at Stewart	Stored in Bear Lake	By-passing Bear Lake (17) - (18)	Flow at Stewart (1) + (6) + (11) + (17)	Stored in Bear Lake (2) + (7) - (12) + (18)	Draft on Bear Lake (3) - (7) + (12) - (18)	Annual Storage Release for Power past Collinston
12	13	14	15	16	17	18	19	20	21	22	23
61,800	46,076	127,328	134,472	-	-	-	-	382,594		260,730	276,068
27,062	67,764	95,344	31,718	-	-	-	-	264,222		180,562	208,733
37,483	63,977	126,954	110,529	-	-	-	-	205,935		286,809	193,006
10,971	40,429	56,845	54,126	-	-	-	-	270,282		145,416	221,151
28,970	31,150	62,704	84,266	-	-	-	-	352,480	92,042		62,704
77,298	42,160	16,233	61,065	Sept.24	4,646	2,078	2,568	331,140	44,249		74,642
37,448	78,101	55,709	81,739	-	-	-	-	259,555		59,393	55,709
33,597	5,245	8,646	214,951	-	-	-	-	95,177		219,448	12,986
92,456	21,674	5,470	56,986	**	3,565	454	3,111	243,332	118,650		5,470
35,724	17,524	8,244	127,480	-	-	-	-	158,248		14,738	8,244
30,100	2,671	7,577	222,523	-	-	-	-	47,952		200,574	7,577
19,962	15,701	5,334	114,628	-	-	-	-	75,123		79,238	5,334
46,646	44,548	4,205	42,441	-	-	-	-	338,828	234,399		4,205
77,666	29,714	4,931	72,735	Sept.28	401	40	361	275,160	128,149		4,931
49,097	28,652	6,171	42,926	Sept.27	1,547	119	1,428	312,928	206,186		6,171
24,997	24,425	14,145	140,852	-	-	-	-	199,260		48,963	14,145
05,843	3,058	8,901	196,942	-	-	-	-	53,860		171,570	8,901
94,180	37,458	6,323	77,857	Sept.22	2,382	1,031	1,351	121,610		35,090	6,323
35,639	22,915	7,751	127,888	-	-	-	-	202,068	4,015		7,751
81,668	49,752	21,531	60,137	-	-	-	-	316,484	127,657		21,531
27,664	22,702	5,921	101,743	-	-	-	-	270,106	84,102		5,921
44,302	41,127	27,394	16,908	Sept.7	12,548	5,580	6,968	216,886	107,417		27,394
12,594	41,363	69,161	43,433	-	-	-	-	365,407	192,994		69,161
33,013	53,721	80,656	52,357	-	-	-	-	391,755	86,712		80,656
3104180	831,907	833,478	2270702		25,089	9,302	15,787	5750392	Net 24 yr. total.		1388714
29,341	34,663	34,728	94,612		1,045	387	658	239,600	Draft → 275,959		57,863

** Storage draft periods - July 23 - Aug. 29; Sept. 9 - 30.

**** Storage draft periods - May 25-29; June 23 - Sept. 21.

9-230.

PLATE 14.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... / District .....

UPPER WYOMING SECTION — BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET May to Sept. 1944	1945	1946	1947	ACRE-FEET PER ACRE 1944	1945	1946	1947	Average
Hilliard East Fork (b)	2,644	1,360	3,539	3,001	3,496	.51	1.34	1.14	1.32	1.08
Lannon	936	1,400	2,588	2,592	2,371	1.50	2.76	2.77	2.53	2.39
Hilliard West Side	2,072	3,204	2,907	4,028	2,589	1.54	1.40	1.94	1.25	1.53
Bear	4,763	7,627	8,086	6,140	10,174	1.60	1.70	1.29	2.14	1.68
Tronic	584	168	287	456	441	.29	.49	.78	.76	.58
Danielson	400	1,302	1,708	1,124	2,215	3.26	4.27	2.81	5.54	3.97
Pine Grove	2,236	4,438	3,735	4,206	4,348	1.98	1.67	1.88	1.94	1.87
McGraw & Big Bend	1,013	2,535	5,476	5,577	5,922	2.50	5.41	5.51	5.85	4.82
Homer	107	331	646	813	870	3.09	6.04	7.60	8.13	6.22
Lewis	822	460	1,356	1,466	1,473	.56	1.65	1.78	1.79	1.44
Lewis & Blanchard	207	719	822	1,197	824	3.47	3.97	5.78	3.98	4.30
Myers No. 2	654	1,102	2,932	963	1,788	1.69	4.48	1.47	2.73	2.59
Hare	151	1,617	1,440	1,429	1,240	10.71	9.54	9.46	8.21	9.48
Coffman	234	973	1,564	1,033	1,420	4.16	6.69	4.41	6.07	5.34
Knoder	194	346	872	599	412	1.78	4.49	3.09	2.12	2.87
Myers No. 1	258	592	704	199	426	2.29	2.73	.77	1.65	1.86
Myers Irrigation	232	1,535	1,710	1,572	1,050	6.62	7.37	6.78	4.53	6.32
Booth	800	299	613	1,115	1,381	.37	.77	1.39	1.73	1.06
Anel	332	2,081	2,185	1,753	1,264	6.27	6.58	5.28	3.81	5.48
Corneilson	76	644	2,302	1,833	2,862	8.47	30.29	24.12	37.66	25.14
Evanston Water Supply	528	1,611	2,110	1,361	1,965	3.05	4.00	2.58	3.72	3.34
Anderson	407	899	841	830	1,037	2.21	2.07	2.04	2.55	2.22
Knight No. 1	170	0	479	271	73	—	2.82	1.59	.43	1.13
Knight No. 2	270	121	352	241	285	.45	1.30	.89	1.06	.92
Evanston Water	1,527	5,296	5,360	3,873	6,269	3.47	3.51	2.54	4.11	3.41
Barton	148	701	756	604	638	4.74	5.11	4.08	4.31	4.56
Faulkner	118	1,821	2,322	1,515	1,720	15.43	19.68	12.84	14.58	15.63
Rocky Mtn. Blythe	833	3,830	3,012	2,499	2499	4.60	3.62	3.00	3.00	3.56
Fife	20	35	43	27	3	1.75	2.15	1.35	.15	1.35
Johnson Narramore	66	37	17	32	92	.56	.26	.48	1.39	.67
Bruce Barton	196	240	202	266	300	1.22	1.03	1.36	1.53	1.28

(a) Planimetered on land use maps.
(b) Includes only supplemental supply from Bear River.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLATE 15.

File No. { Washington ..... / District .....

UPPER WYOMING SECTION (Continued) BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET May to Sept. 1944	1945	1946	1947	ACRE-FEET PER ACRE 1944	1945	1946	1947	Aver-age
A. W. Sims	252	547	978	883	889	2.17	3.88	3.50	3.53	3.27
John Anderson	30	8	41	50	187	.27	1.37	1.67	6.23	2.38
Crompton No. 2	212	252	718	389	419	1.19	3.39	1.83	1.98	2.10
Fearne	48	653	762	818	517	13.60	15.85	6.62	10.77	11.70
Saxton-Turner	30	142	413	121	276	4.73	13.75	4.03	9.20	7.93
Saxton Irrigation	288	990	1340	984	3769	3.44	4.65	3.42	13.09	6.15
John Sims	194	788	1472	803	792	4.06	7.58	4.14	4.08	4.97
Southern Pacific	288	667	1201	761	368	2.32	4.17	2.64	1.28	2.60
Heward	72	2910	219	123	22	40.42	3.04	1.71	.31	11.37
Saxton-Thomas	92	1260	1,781	1,467	1527	13.70	19.35	15.95	16.55	16.40
Ramsey	819	2,538	3,565	2,256	3,210	3.10	4.35	2.75	3.92	3.53
Almy	76	1,073	304	252	654	14.12	4.00	3.32	8.61	7.51
Sims, Blythe, Turner	428	681	1,115	690	1,364	1.59	2.61	1.61	3.19	2.25
Bowns	76	450	377	252	210	5.92	4.96	3.32	2.76	4.24
Russell	20	40	109	94	173	2.00	5.45	4.70	8.65	5.20
Turner	200	437	600	387	365	2.18	3.00	1.94	1.82	2.24
Upper Morris	271	3,417	1,630	1,952	3,459	12.61	6.02	7.20	12.76	9.65
Chapman	8,997	9,336	13,798	9,317	12,457	1.04	1.54	1.08	1.38	1.26
Lower Morris	1,283	359	385	576	768	.28	.30	.45	.60	.41
Bruce Bowns	364	1,181	1,108	982	2,424	3.24	3.04	2.70	6.66	3.91
Tunnel	759	2,096	3,053	1,636	1,976	2.76	4.02	2.16	2.60	2.88
Fowkes	237	321	345	183	293	1.35	1.46	.77	1.24	1.20
Christensen	161	258	221	260	524	1.60	1.37	1.61	3.25	1.96
Upper Island	266	644	1,044	853	680	2.52	4.08	3.33	2.66	3.15
Blight Irrigation	616	533	1,342	1199	1,348	.87	2.18	1.95	2.19	1.80
Acock & Cowlishaw	287	193	209	768	1287	.67	.73	2.68	4.48	2.14
Lower Island	269	1,666	1,700	583	1,238	6.19	6.32	2.16	4.60	4.82
Totals	39,613	80,764	100,796	81,154	102,643	2.04	2.52	2.05	2.59	2.30

a Planimetered on land use maps.

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PLATE 16

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington .....
District .....

MIDDLE UTAH SECTION

BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET				ACRE-FEET PER ACRE				
		1944	May to Sept. 1945	1946	1947	1944	1945	1946	1947	Aver-age.
Francis Lee	673	4,090	5,836	3,346	5,389	6.08	8.67	4.97	8.01	6.93
Bear River	1,838	7,247	8474	5,079	8526	3.94	4.61	2.76	4.64	3.99
Neville		0	0	0	0					
Rees Land & Live stock	412	3347	4,506	2,004	3289	8.12	10.91	4.86	7.98	7.98
Booth	307	1,288	1,074	814	3,154	4.20	3.50	2.65	10.27	5.15
Randolph-Woodruff	9,550	26,459	29,932	19,676	31,616	2.77	3.01	2.06	3.31	2.79
Crawford-Thompson	5,635	12,941	17,323	11,094	14,028	2.30	3.08	1.97	2.49	2.46
Dykens	1,298	2824	1,820	1,683	4,070	2.18	1.40	1.30	3.14	2.00
Randolph-Sage Creek	9,380	15,970	13,140	10,518	15,853	1.70	1.40	1.12	1.69	1.48
McMinn	1,382	4,200	1,160	621	2,588	3.04	.84	.45	1.87	1.55
Enberg	820	2,314	1,955	1,436	1,806	2.82	2.38	1.75	2.20	2.29
B.C. West Side	5,813	19,620	25,007	14,413	16,343	3.38	4.38	2.48	2.81	3.26
Totals	37,108	100,300	110,227	70,684	106,662	2.70	2.97	1.90	2.87	2.61

(a) Planimetered on land use maps.

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PLATE 17.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... / District .....

MIDDLE WYOMING SECTION — BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET May to Sept. 1944	1945	1946	1947	ACRE-FEET PER ACRE 1944	1945	1946	1947	Average
B. Q. West Slough	1,882	6,673	10,101	7,715	3,009	3.55	5.54	4.10	1.60	3.70
McFarland	300	1,149	1,223	675	577	3.83	4.08	2.25	1.92	3.02
B. Q. East Side	2,104	9,709	13,139	13,013	8,518	4.61	6.24	6.18	4.05	5.27
Pixley	2,614	8,347	4,858	2,626	8,331	3.19	1.86	1.00	3.19	2.31
Totals	6,900	25,873	29,321	24,029	20,435	3.75	4.25	3.49	2.95	3.61

(a) Planimetered on land use maps.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... District .....

PLATE 18.

LOWER WYOMING SECTION SMITHS FORK AND BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET May to Sept. 1944	1945	1946	1947	ACRE-FEET PER ACRE 1944	1945	1946	1947	Aver-age
Quinn Bourne	354	262	1,175	249	1,293	.74	3.32	.70	3.66	2.10
Button Flat	241	862	458	263	0	3.57	1.90	1.09	0	1.64
Perry Partridge	263	346	270	377	0	1.31	1.02	1.43	0	.94
Progress	218	634	602	760	456	2.91	2.76	3.48	2.09	2.81
Emelle	659	2,646	3,107	3,566	4323	4.02	4.72	5.42	6.66	5.20
Cooper	414	1,440	891	1,040	2,062	3.48	2.15	2.51	4.99	3.28
Wheelock (Upper)	175	302	308	1,314	598	1.72	1.76	7.52	3.41	3.60
Wheelock (Lower)	189	973	1,392	726	585	5.15	7.35	3.84	3.10	4.86
Covey, Mau & Collat	4,396	16,611	13,245	15,542	14,117	3.77	3.02	3.53	3.22	3.38
Tanner, Hunt, Garrett	288	1,644	1,864	2,161	2,701	5.71	6.48	7.51	9.38	7.27
Whites Water	915	5826	8293	7,548	6,129	6.37	9.07	8.25	6.70	7.60
Martin	149	350	118	85	0	2.35	.79	.57	0	.93
Bourne	117	1,939	1,640	1,801	1,573	16.58	14.00	15.40	13.45	14.86
Forgeon	210	1,366	1,264	937	1,196	6.51	6.03	4.47	5.70	4.54
Stoner	369	1,221	2,700	1,492	1,874	3.31	7.32	4.04	5.08	4.94
Morgan	144	1,490	2,343	1,949	1,629	10.35	16.27	13.55	11.32	12.87
Cokeville	69	613	652	833	741	8.88	9.45	12.09	10.75	10.29
Tanner 1 & 2	110	1,152	886	1,118	1,412	10.49	8.06	10.15	12.85	10.39
Smiths Fk. Canal	142	1,056	1,824	1,568	1,015	7.44	12.85	11.03	7.16	9.62
South Branch 1 & 2	737	4,803	5,509	5,109	5006	6.51	7.47	6.94	6.80	6.93
Garrett	217	1,301	1,281	1,629	869	6.00	5.91	7.51	4.00	5.85
Sights	705	1,939	2,570	2,469	1,811	2.75	3.65	3.50	2.57	3.12
Wyman (East)	234	2,462	2,203	918	1,121	10.52	9.40	3.90	4.79	7.15
Wyman (West)	369	5,172	5,180	3182	3229	14.02	14.04	8.62	8.75	11.36
Snyder	351	3969	4,503	4640	4257	11.31	12.82	13.22	12.13	12.37
Rocky Point	256	723	1,749	1,438	1554	2.82	6.83	5.62	6.07	5.33
Cook	2,925	6,102	6,407	5363	5843	2.08	2.19	1.83	2.00	2.02
J. R. Richards	419	1,422	463	586	3,158	3.39	1.10	1.40	7.54	3.36
Totals	15,635	68,626	72,897	68,657	68,552	4.37	4.65	4.38	4.38	4.44

(a) Planimetered on land use maps.

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PLATE 19.

File No. { Washington ..... / District .....

UPPER IDAHO SECTION

BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET May to Sept. 1944	1945	1946	1947	ACRE-FEET PER ACRE 1944	1945	1946	1947	Aver-age
Miller	666	1,697	1,935	1,407	1,436	2.55	2.91	2.11	2.15	2.43
Neuffer	936	5,728	5,751	6,130	3,875	6.12	6.14	6.55	4.14	5.74
Pacific	650	1,916	2,002	722	2,478	2.95	3.08	1.11	3.81	2.74
Transtrum	257	0	0	0	0	0	0	0	0	0
Loyd	246	390	766	841	1,343	1.59	3.11	3.42	5.46	3.40
Phelps Estate	327	1,706	772	1,087	1,864	5.22	2.36	3.32	5.70	4.15
Dingle Irrigation	1,751	8435	6274	9716	5831	4.82	3.58	5.55	3.33	4.32
Ream-Crockett	2,603	10,054	8995	7291	9,149	3.86	3.46	2.80	3.51	3.41
Black Otter-Peg Leg	5872	20,125	16,454	21,818	22,520	3.43	2.80	3.72	3.84	3.45
Montpelier-Preston	3347	8882	7929	12,172	8784	2.65	2.37	3.64	2.62	2.82
Kent-Larocco	697	3,096	2445	2,972	2,232	4.44	3.51	4.26	3.20	3.85
Pugmire	214	248	333	357	0	1.16	1.56	1.67	0	1.10
West Fork	5,712	18,254	13,561	14,146	17,802	3.20	2.37	2.48	3.12	2.79
Totals	(b) 23,021	80,531	67,217	78,659	77,314	3.50	2.92	3.41	3.36	3.30

(a) Planimetered on land use maps.

(b) Excludes Transtrum Canal acreage.

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File No. { Washington ..... / District .....

PLATE 20.

LOWER IDAHO SECTION — BEAR RIVER DIVERSIONS 1944 to 1947.

NAME OF CANAL	Acres Irrig. (a)	DIVERTED ACRE-FEET May to Sept. 1944	1945	1946	1947	ACRE-FEET PER ACRE 1944	1945	1946	1947	Average
Johnson	197	859	541	706	905	4.36	2.75	3.58	4.59	3.82
Budge	1176	1,912	1,430	2,006	2,225	1.63	1.22	1.71	1.89	1.61
Last Chance										
Bench "B"	39,736	82,927	83,709	93,153	98,606	2.09	2.11	2.34	2.48	2.26
Tanner "B"										
Gentile Valley	3,982	15,866	11,936	13,241	14,536	3.98	3.00	3.33	3.65	3.49
Smith Bosen	291	1,356	1,029	1,422	1,069	4.66	3.54	4.89	3.64	4.18
Riverdale-Preston	737	1,164	685	1,906	1,916	1.58	.93	2.59	2.60	1.92
Nelson	374	490	242	722	394	1.31	.65	1.93	1.05	1.24
Riverdale	976	2,554	2,169	3,745	3510	2.62	2.22	3.84	3.60	3.07
West Cache	18,541	30,782	25,674	31,400	28,860	1.66	1.38	1.69	1.56	1.57
Cub River Pumps (b)	6,317	11,446	6,537	9,493	7,566	1.81	1.03	1.50	1.20	1.38
Totals	72,327	149,356	133,952	157,794	159,577	2.06	1.85	2.18	2.21	2.08
LOWER UTAH SECTION										
West Side near Collinston	40,000 (c)	139,430	130,240	163,090	148,690	3.49	3.31	4.08	3.72	3.65
Hammond East Side	12,000 (c)	31,950	29,740	38,470	33,340	2.66	2.48	3.20	2.78	2.78
Totals	52,000	171,440	159,980	201,560	182,030	3.29	3.08	3.88	3.50	3.44

(a) Planimetered on land use maps.
(c) Reported by Bureau of Reclamation.

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File No. { Washington ..... / District .....

PLATE 21.

Upper Wyoming Section (Incl. Tribs) 1944

	Acre-Feet					
	May	June	July	Aug	Sept	Total
Supply						
Bear River nr. Ut.-Wyo. St. line	42,790	58,460	23,990	3,870	2,090	131,200
Hilliard E.F. Canal	0	0	536	551	273	1,360
Mill Cr. nr. Evanston	9,240	8,850	988	382	265	20,225
Goodman-Cunnington Canal	0	119	95	22	0	236
Hilliard E.F. (Mill Cr.) Canal	155	1,183	543	0	0	1,881
John Goodman Canal	13	24	98	28	30	193
Sulphur & Willow Crs. above div.	2,770	1,420	103	9	6	4,308
Yellow Cr. nr. Evanston	3,520	733	76	13	12	4,354
Total Supply	58,988	70,789	26,429	4,875	2,676	163,757
Diverted						
Hilliard E.F. Canal (BR)	0	0	536	551	273	1,360
Lannon Canal	433	470	386	104	7	1,400
Hilliard W. Side Canals	0	501	1,656	782	265	3,204
Bear to Barton Canals	6,100	14,734	11,156	2,212	1,195	35,397
Faulkner to Turner Canals	5,327	8,927	3,895	116	207	18,472
Bowns to Island Canals	3,672	12,341	4,775	74	69	20,931
Mill Cr. (Wyo.) Canals	452	3,615	2,962	370	345	7,744
Sulphur & Willow Cr. canals	1,664	897	454	289	88	3,392
Yellow Cr. Canals less Black Ranch	2,104	2,380	495	30	0	5,009
Total Diverted	19,752	43,865	26,315	4,528	2,449	96,909
Gain in Section	25,024	32,466	12,036	-273	-227	69,026
Excess - Bear River nr. Woodruff	64,260	59,390	12,150	74	0	135,874
Apparent depletion (Supply-Excess)	-5,272*	11,399	14,279	4,801	2,676	27,883

*Caused by local unmeasured supply.

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PLATE 22.

File No. { Washington ..... / District ..... }

Middle Utah Section (Including Tributaries) 1944

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Woodruff	64,260	59,390	12,150	74	0	135,874
Woodruff Cr. at Putnam Ranch	8,162	3,381	821	401	303	13,068
Putnam Cornia Canal	138	137	75	25	18	393
Huttaker Canal	218	138	80	8	31	475
Big Creek nr. Randolph	938	494	388	323	344	2,487
Sam South Canal	0	0	0	0	0	0
Makinnon Canal	0	26	22	10	0	58
Randolph Cr. Canals	100	340	475	329	209	1,453
Otter Cr. above div. (Est.)	744	720	744	744	720	3,672
Total Supply	74,560	64,626	14,755	1,914	1,625	157,480
Diverted						
Francis Lee to BQ W. Side Canals	36,016	46,518	12,064	306	396	100,300
Woodruff Cr. Canals (less Smith, Cornia #2)	8,833	3,935	1,090	410	339	14,607
Big Creek Canals	1,101	672	458	394	415	3,040
Randolph Cr. Canals	100	340	475	329	209	1,453
Otter Cr. Canals	1,002	959	799	757	765	4,282
Total diverted	47,052	52,424	19,886	2,196	2,124	123,682
Gain in Section	16,032	33,548	16,801	2,872	2,109	71,362
Excess - Bear River nr. Randolph	43,540	45,750	11,670	2,590	1,610	105,160
Apparent depletion (Supply - Excess)	31,020	18,876	3,085	-676	15	52,320

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File No. { Washington ..... / District .....

PLATE 23.

Middle and Lower Wyoming Sections (Including Tributaries) 1944

	Acre-Feet					
	May	June	July	Aug	Sept	Total
Supply						
Bear River nr. Randolph	43,540	45,750	11,670	2,590	1,610	105,160
Twin Cr. at Sage	1,970	4,550	433	305	275	7,533
Smiths Fork nr. Border	20,180	31,600	15,060	8,330	5,990	81,160
Hoxland Creek	575	591	315	208	134	1,823
Groade Creek	199	416	299	207	151	1,272
Pine Cr. at canyon mouth	1,075	1,140	1,095	1,041	966	5,317
Sublette Creek below swamps	282	415	242	181	121	1,241
Leeds Creek	93	73	59	29	18	272
Birch Creek	9	48	151	79	24	311
Chalk Creek	6	44	32	6	6	94
Total Supply	67,929	84,627	29,356	12,976	9,295	204,183
Diverted						
B.Q. to Richards Canals	10,790	25,492	8,526	1,527	2,628	48,963
Misc. canals Randolph to Border	588	1,351	986	498	246	3,669
Smiths Fork Canals	2,688	13,258	14,383	9,222	5,985	45,536
Misc. Smiths Fork canals	1,085	1,513	1,315	1,328	1,104	6,345
Total diverted	15,151	41,614	25,210	12,575	9,963	104,513
Gain in Section	14,262	33,437	23,384	9,209	7,188	87,480
Excess - Bear River nr. Border	67,040	76,450	27,530	9,610	6,520	187,150
Apparent depletion (Supply - Excess)	889	8,177	1,826	3,366	2,775	17,033

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PLATE 24.

Upper Idaho Section (Including Tributaries) 1944

	Acre-Feet					
	May	June	July	Aug	Sept.	Total
Supply						
Bear River nr. Border	67,040	76,450	27,530	9,610	6,520	187,150
Thomas Fork & Tribs above div.	5,960	6,240	2,447	996	789	16,432
Raymond Cr. (Est.)	620	660	430	260	190	2,160
Total Supply	73,620	83,350	30,407	10,866	7,499	205,742
Diverted						
Miller to West Fork Canals	21,452	28,831	14,747	8,520	6,981	80,531
Thomas Fork Canals	3,290	5,855	2,823	910	1,046	13,924
Raymond Creek Canals	620	660	430	260	190	2,160
Total Diverted	25,362	35,346	18,000	9,690	8,217	96,615
Gain in Section	4,705	11,060	10,903	5,795	3,518	35,981
Excess						
Bear River below Stewart	823	8,830	19,160	4,710	1,750	35,273
Rainbow Canal	51,170	49,720	3,910	1,890	885	107,525
Dingle Inlet Canal	970	514	240	371	165	2,260
Total Excess	52,963	59,064	23,310	6,971	2,800	145,108
Apparent depletion (Supply - Excess)	20,657	24,286	7,097	3,895	4,669	60,634

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PLATE 25.

Idaho Stewart to Pescadero (Including Tributaries) 1944

	Acre-feet					
	May	June	July	Aug.	Sept	Total
Supply						
Bear River below Stewart	823	8,830	19,160	4,710	1,750	35,273
Outlet Canal at Dike	1,560	1,540	38,760	54,130	21,480	117,470
Paris Creek nr. Paris	1,570	980	233	190	156	3,129
Paris Power Canal	2,040	2,470	1,850	1,530	1,210	9,100
Slight Canyon Cr. nr. Paris	197	54	9	0	0	260
Mill Creek nr. Liberty	1,720	1,290	541	413	276	4,240
Sharon Canal	670	800	386	190	127	2,173
Emigration Creek nr. Liberty	608	531	127	67	63	1,396
North Creek nr. Liberty	791	738	209	94	63	1895
Montpelier Creek at Irrigators Weir	1,780	1,750	952	564	443	5489
Bennington Creek above div	540	686	513	348	254	2,341
Total Supply	12,299	19,669	62,740	62,236	25,822	182,766
Diverted						
Paris Creek Canals	3,668	3,542	2,283	1,823	1,443	12,759
Mill, Emigration & North Cr. Canals	4,307	3937	1,593	897	718	11,452
Slight Canyon Cr. Canal	197	54	9	0	0	260
Montpelier Cr. Canals	1379	1,718	940	562	443	5,042
Bennington Cr. Canals	540	686	513	348	254	2,341
Total diverted	10,091	9,937	5,338	3,630	2858	31,854
Gain in Section	12,882	18,228	3978	3254	2656	40,998
Excess-Bear River at Pescadero	15090	27,960	61,380	61,860	25,620	191,910
Apparent depletion (Supply-Excess)	-2,791	-8,291	1,360	376	202	-9,144

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PLATE 26.

Pescadero to Oneida (including Tributaries) 1944

Supply		May	June	July	Aug.	Sept.	Total
		Acre-ft.					
Bear River at Pescadero		15,090	27,960	61,380	61,860	25,620	191,910
Georgetown Creek nr Georgetown		1,790	2,270	2,120	1,980	1,870	10,030
West Fork Georgetown		106	109	103	103	97	518
Stauffer Cr. above div.	(Est.)	1,200	1,500	380	80	50	3,210
Coop Creek above div.	(Est.)	500	700	180	100	80	1,560
Skinner Cr. above div.	(Est.)	670	700	180	100	80	1,730
Pearl Cr. above div.	(Est.)	560	720	310	60	0	1,650
Eight Mile Cr. above div.	(Est.)	2,690	3,400	1,270	500	450	8,310
Ledge Cr. (less city pipe line)	(Est.)	210	120	70	70	60	530
Formation Springs		1,300	1,260	1,300	1,300	1,260	6,420
Soda Creek	(Est.)	3,700	3,706	4,001	3,555	2,598	17,560
Bailey Creek	(Est.)	500	450	321	259	250	1,780
Whiskey Creek		1,000	1,730	1,920	2,050	2,000	8,700
Trout Creek		1,810	2,810	1,950	1,530	1,150	9,250
Warm Creek	(Est.)	800	800	800	800	800	4,000
Williams Creek	(Est.)	2,000	6,000	3,000	2,000	1,500	14,500
Cottonwood Cr. nr Cleveland	+ Treasureton Canal	3,884	2,040	830	342	324	7,420
Total Supply (inflow)		37,810	56,275	80,115	76,689	38,189	289,078
Soda Reservoir		100	-2,260	1,080	-610	260	-1,430
Oneida Reservoir		2,600	170	90	-840	310	2,330
Total Reservoir Supply		2,700	-2,090	1,170	-1,450	570	900
Total Net Supply		40,510	54,185	81,285	75,239	38,759	289,978

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PLATE 27.

File No. Washington ..... District .....

(continued)

Pescadero to Oneida (including Tributaries) 1944

Diversions	May	June	July	Aug.	Sept.	Total
	Acre-ft					
Georgetown Creek	999	2,376	2,223	2,080	1,972	9,650
Stauffer Creek (Est.)	0	750	380	80	50	1,260
Coop Creek (Est.)	0	350	180	100	80	710
Skinner Creek (Est.)	0	350	180	100	80	710
Pearl Creek	560	720	310	60	0	1,650
Eight Mile Creek	849	1,674	1,489	755	522	5,283
Ledge Creek	210	120	70	70	60	530
Formation Springs	1,300	1,260	1,300	1,300	1,260	6,420
Soda Creek	849	3,706	4,001	3,585	2,598	14,709
Bailey Creek	0	450	321	259	250	1,280
Whiskey Creek	830	1,880	1,910	2,010	2,040	8,670
Trout Creek	1,960	3,069	2,133	1,723	1,194	10,079
Warm Creek	296	586	567	703	618	2,770
Williams Creek	1,138	1,692	1,531	1,296	1,037	6,694
Cottonwood Creek	1,039	1,519	692	342	320	3,906
Bear River Pescadero to Alexander	0	787	1,261	615	109	2,772
Bear River Alexander to Oneida	12,571	28,692	26,706	20,909	10,515	98,793
Total diverted	22,595	49,975	45,254	35,357	22,705	175,886
Gain in Section	12,955	20,750	13,829	12,618	17,916	78,068
Excess - Bear River at Oneida	30,870	24,960	49,860	52,500	33,970	192,160
Apparent depletion (Supply - Excess)	9,640	29,225	31,425	22,739	4,789	97,818

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PLATE 28.

File No. { Washington ..... / District .....

Oneida to Cutler Dam Section (Including Tributaries) 1944

Supply	May	June	July	Aug.	Sept.	Total
	Acre-ft.					
Bear River at Oneida	30,870	24,960	49,860	52,500	33,970	192,160
Mink Cr at head of Twin Lakes Canal	14,020	12,150	4,800	3,120	2,670	36,760
Cub River nr. Preston	16,160	16,600	4,870	2,620	1,900	42,050
Cub River inflow Preston sta. to Franklin	2,823	1,223	684	477	338	5,545
Maple Creek	5,320	8,540	781	250	229	10,070
High Creek nr. Richmond	5,400	6,430	1,910	978	772	15,490
Cherry Creek	1,160	1,600	241	80	29	3,110
Summitt Creek	4,500	3,380	1,130	296	404	9,710
Birch Creek	344	680	438	160	56	1,678
Logan River	26,670	27,360	15,280	10,680	8,150	88,140
Providence Creek (Est.)	870	840	870	870	840	4,290
Garr Spring (Est.)	310	300	310	310	300	1,530
Blacksmith Fork	9,190	6,530	5,340	4,630	4,030	29,720
Little Bear + Paradise & Hyrum Canals	15,040	10,046	4,350	2,759	2,574	34,769
Weston Creek below Reservoir (Est.)	200	720	740	620	370	2,650
Clarkston Creek nr. Newton	268	550	917	174	27	1,936
Total Supply (inflow)	133,145	116,809	92,471	80,524	56,659	479,608
Cutler Reservoir Release (Cutler gage) (last of mo.)	0	-10,050	+10,050	-4,400	-5,650	-10,050
Hyrum Reservoir	0	430	4,830	3,810	2,670	11,740
Total Reservoir Supply	0	-9,620	14,880	-590	-2,980	1,690
Total Net Supply	133,145	107,189	107,351	79,934	53,679	481,298

Does not include additional supplies from Deep Creek, Battle Creek, Springs in vicinity of Wellsville, and storage from Glendale Reservoir, Twin Lakes Reservoir, Strong Arm Reservoir.

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PLATE 29.

Oneida to Cutler Dam Section (Including Tributaries) 1944

Diverted	Acre-ft. May	June	July	Aug	Sept.	Total
Bear River, Oneida to Preston	3,505	5,508	10,953	9,777	6,603	36,346
Cub River pumps	0	0	3,673	4,590	3,183	11,446
Cache Valley Pumps	84	700	2,353	2,400	1,347	6,884
Twin Lakes Canal	5,700	6,920	2,520	1,320	1,070	17,530
Preston-Riverdale & Mink Cr. Canal	121	1,680	2,190	1,730	1,550	7,271
Cub River Canals	2,085	5,351	6,001	3,401	2,275	19,111
Maple Creek Canals	297	639	723	254	232	2,145
High Creek Canals	1,404	2,102	1,764	790	469	6,529
Cherry Creek Canals	373	754	244	82	30	1,483
Summit & Birch Cr. Canals	1,365	1,847	2,003	956	706	6,877
Logan River Canals	7,855	9,778	17,103	11,739	8,872	55,347
Blacksmith Fork Canals	3,060	3,651	7,198	6,503	5,521	25,933
Providence Cr. Canals	870	840	870	870	840	4,290
Garr Springs Canals	310	300	310	310	300	1,530
Little Bear River Canals	1,241	6,918	9,174	6,729	5,419	29,481
Weston Creek Canals	410	820	790	560	310	2,890
Clarkston Cr. Canals below dam	268	550	917	174	27	1,936
Total diverted	28,946	48,358	68,786	52,185	38,754	237,029
Gain (adjusted for reservoir supply)	92,011	40,059	13,336	18,591	24,615	128,511
Excess						
Bear River nr Collinston	118,100	77,890	1,980	1,570	1,800	201,340
West Side Canal	14,960	17,850	40,570	35,680	30,430	139,490
Hammond Canal	3,150	3,150	9,350	9,090	7,210	31,950
Total	136,210	98,890	51,900	46,340	39,440	372,780
Apparent depletion (Total net Supply - Excess)	-3,065	8,299	55,451	33,594	14,239	108,518

Does not include water diverted into West Cache Canal from Deep Creek, water applied from Strong Arm Reservoir, Twin Lakes Reservoir, and Glendale Reservoir.

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... / District .....

PLATE 30.

Upper Wyoming Section (Including Tributaries) 1945

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Ut.-Wyo. St. Line	32,690	40,110	22,490	8,890	4,200	108,380
Hilliard E.F. Canal	0	642	1,371	1,027	499	3,539
Mill Cr. nr. Evanston	6,690	5,970	1,790	1,460	685	16,595
Goodman-Cunnington Canal	102	173	73	1	0	349
Hilliard E.F. (Mill Cr.) Canal	406	814	26	81	8	1,334
John Goodman Canal	290	247	75	55	20	687
Sulphur & Willow Crs. above div.	2,065	984	108	39	16	3,212
Yellow Cr. nr. Evanston	1,370	501	43	79	0	1,993
Total Supply	43,612	49,441	25,976	11,632	5,428	136,089
Diverted						
Hilliard E.F. Canal (B.R.)	0	642	1,371	1,027	499	3,539
Lannon Canal	339	948	868	321	112	2,588
Hilliard W. Side Canal	77	251	1,871	476	232	2,907
Bear to Barton Canals	6,077	17,773	14,675	5,946	1,865	46,336
Faulkner to Turner Canals	3,493	7,810	5,530	2,000	672	19,505
Bown to Island Canals	5,830	12,072	5,988	1,725	306	25,921
Mill Cr. (Wyo.) Canals	1,644	4,295	2,872	1,279	440	10,530
Sulphur & Willow Cr. Canals	646	813	278	202	26	1,965
Yellow Cr. Canals less Black Ranch	1,103	1,517	376	211	31	3,238
Total diverted	19,209	46,121	33,829	13,187	4,183	116,529
Gain in Section	13,067	33,160	17,993	9,505	975	74,700
Excess-Bear River nr. Woodruff	37,470	36,480	10,140	7,950	2,220	94,260
Apparent depletion (Supply-Excess)	6,142	12,961	15,836	3,682	3,208	41,829

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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File No. { Washington ..... / District .....

PLATE 31.

Middle Utah Section (Including Tributaries) 1945

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Woodruff	37,470	36,480	10,140	7,950	2,220	94,260
Woodruff Cr. at Putnam Ranch	6,916	4,596	1,152	783	486	13,933
Putnam Cornia Canal	305	296	65	4	23	693
Huffaker Canal	174	293	129	7	75	678
Big Creek nr. Randolph	522	698	466	461	424	2,571
Sam South Canal	9	7	0	5	0	21
McKinnon Canal	34	24	6	14	0	78
Randolph Cr. Canals	201	243	297	261	177	1,179
Otter Cr. above div. (Est.)	744	720	744	744	720	3,672
Total Supply	46,375	43,357	12,999	10,229	4,125	117,085
Diverted						
Francis Lee to B.Q.W. Side Canals	38,184	44,794	21,649	4,425	1,175	110,227
Woodruff Cr. Canals (less Smith, Cornia Etc)	8,922	4,500	1,669	1,084	771	18,946
Big Cr. Canals	680	961	632	576	567	3,416
Randolph Cr. Canals	201	243	297	261	177	1,179
Otter Cr. Canals	990	1,039	882	926	863	4,700
Total diverted	48,977	53,537	25,129	7,272	3,553	138,468
Gain in Section	16,252	32,320	20,240	5,403	3,528	77,743
Excess - Bear River nr. Randolph	13,650	22,140	8,110	8,360	4,100	56,360
Apparent depletion (Supply - Excess)	32,725	21,217	4,889	1,869	25	60,725

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File No. { Washington .....
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PLATE 32.

Middle and Lower Wyoming Sections (Including Tributaries) 1945

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Randolph	13,650	22,140	8,110	8,360	4,100	56,360
Twin Cr. at Sage	590	862	312	1,380	294	3,438
Smiths Fork nr. Border	25,360	35,440	19,430	10,150	7,170	97,550
Howland Creek	508	625	390	239	156	1,918
Grade Creek	334	468	376	244	170	1,592
Pine Cr. at canyon mouth	879	1,051	1,142	1,083	1,000	5,155
Sublette Cr. below swamps	396	349	245	252	176	1,418
Leeds Creek (Est.)	90	80	60	30	20	280
Birch Creek	35	60	89	63	25	272
Chalk Creek	6	85	55	41	0	187
Total Supply	41,848	61,160	30,209	21,842	13,111	168,170
Diverted						
B.Q. to Richards Canals	12,717	27,617	10,329	1,359	1,655	53,677
Misc. Canals Randolph to Border	865	1,109	858	588	424	3,844
Smiths Fork Canals	6,278	14,888	13,962	10,507	2,906	48,541
Misc. Smiths Fork Canals	992	1,483	1,544	1,284	1,120	6,423
Total diverted	20,852	45,097	26,693	13,738	6,105	112,485
Gain in Section	13,304	36,497	23,654	10,736	7,834	92,025
Excess - Bear River at Border	34,300	52,560	27,170	18,840	14,840	147,710
Apparent depletion (Supply - Excess)	7,548	8,600	3,039	3,002	-1,729	20,460

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UNITED STATES
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PLATE 33.

File No. { Washington
District

Upper Idaho Section (Including Tributaries) 1945

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River at Border	34,300	52,560	27,170	18,840	14,840	147,710
Thomas Fork & Tribs. above div.	11,922	11,704	4,967	2,479	1,773	32,839
Raymond Cr. (Est.)	550	740	520	350	240	2,400
Total Supply	46,772	65,004	32,657	21,663	16,853	182,949
Diverted						
Miller to West Fork Canals	14,131	26,348	16,354	7,160	3,224	67,217
Thomas Fork Canals	8,110	8,538	5,707	1,916	1,420	25,691
Raymond Creek Canals (Est.)	550	740	520	350	240	2,400
Total diverted	22,791	35,626	22,581	9,426	4,884	95,308
Gain in Section						
Excess						
Bear River below Stewart	815	1,230	1,650	9,150	1,590	14,435
Rainbow Canal	29,200	44,090	23,110	9,020	14,130	119,550
Dingle Inlet Canal	0	212	69	754	377	1,412
Total Excess	30,015	45,532	24,829	18,924	16,097	135,397
Apparent depletion (Supply-Excess)	16,757	19,472	7,828	2,739	756	47,552

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File No. { Washington ..... / District .....

PLATE 34.

Idaho Stewart to Pescadero (Including Tributaries) 1945

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River below Stewart	815	1,230	1,650	9,150	1,590	14,435
Outlet Canal at Dike	204	2,670	39,720	27,940	13,010	83544
Paris Creek nr. Paris	1,480	2,090	337	183	151	4,241
Paris Power Canal	1,990	2,140	2,140	1,630	1,360	9260
Slight Canyon Cr. nr. Paris	328	129	20	0	0	477
Mill Cr. nr. Liberty	3,010	3,580	736	504	468	8,298
Sharon Canal	313	613	551	316	150	1,943
Emigration Cr. nr. Liberty	1,246	855	164	128	90	2,483
North Creek nr. Liberty	1,179	1,238	345	167	121	3,050
Montpelier Creek at Irrigators Weir	2,810	3,650	1,710	974	744	9,888
Bennington Creek above div.	343	900	566	424	233	2,466
Total Supply	13,718	19,095	47,939	41,416	17,917	140,085
Diverted						
Paris Creek Canals	3,922	4,663	2,775	2,492	1,725	15,577
Mill, Emigration & North Cr. Canals	8,397	7,858	2,215	1,287	916	20,673
Slight Canyon Cr. Canal	328	129	20	0	0	477
Montpelier Cr. Canals	2,477	2,395	1,805	1,029	677	8,383
Bennington Cr. Canals	343	900	566	424	233	2,466
Total Diverted	15,467	15,945	7,381	5,232	3,551	47,576
Gain in Section	13,469	23,050	7,262	5,316	4,484	53,581
Excess - Bear River at Pescadero	11,720	26,200	47,820	41,500	18,850	146,090
Apparent depletion (Supply - Excess)	1,998	-7,105	119	-84	-933	-6,005

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PLATE 35.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington ..... / District .....

Pescadero to Oneida (including trib) 1945

Supply	Acre-ft. May	June	July	Aug	Sept	Total
Bear River at Pescadero	11,720	26,200	47,820	41,500	25,620	152,860
Georgetown Cr. nr Georgetown	1,730	2,720	2,340	2,200	1,960	10,950
West Fork Georgetown	103	153	182	148	135	721
Stauffer Cr. above div. (est.)	1,560	2,100	420	80	50	4,210
Co-op Cr. above div. (est.)	720	1,000	350	150	120	2,340
Skinner Cr. above div. (est)	896	1,083	310	124	140	2,553
Pearl Cr. above div. (est)	500	600	380	180	180	1,840
Eight Mile Cr. above div. (est.)	4,834	5,844	2,467	1,286	839	15,270
Ledge Cr. (less city pipeline) (est.)	150	170	160	260	300	1,040
Formation Springs	1,300	1,260	1,300	1,300	1,260	6,420
Soda Creek (est.)	3,800	3,670	3,689	3,813	3,735	18,707
Bailey Creek (est)	350	480	300	300	300	1,730
Whiskey Creek	1,243	1,390	1,732	2,209	2,227	8,801
Trout Creek	1,860	3,690	2,770	1,950	1,430	11,700
Warm Creek (est)	800	800	800	800	800	4,000
Williams Creek (est.)	1,995	6,450	2,748	2,233	1,708	15,134
Cottonwood Cr. + Treasureton Canal nr. Cleveland	11,251	7,820	1,742	1,101	831	22,745
Total Supply (inflow)	44,812	66,430	69,510	59,634	41,635	281,021
Soda Reservoir	-3,840	-130	2,000	380	-1,540	-3,130
Oneida Reservoir	490	-290	-108	1,850	-2,500	-558
Total Reservoir Supply	-3350	-420	1,892	2,230	-4,040	-3,688
Total Net Supply	41,462	65,010	71,402	61,864	37,595	277,333

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington
District

PLATE 36.

(Continued)

Pescadero to Oneida (including tribs) 1945

Diversions	May	June	Acre-ft. July	Aug	Sept	Total
Georgetown Creek	732	2,307	2,518	2,351	902	8,810
Stauffer Creek (est.)	0	1,050	420	80	50	1,600
Co-op Creek (est)	0	500	350	150	120	1,120
Skinner Creek (est)	0	540	310	124	140	1,114
Pearl Creek	500	600	380	180	180	1,840
Eight-Mile Creek	733	1,057	1,486	643	319	4,238
Ledge Creek	150	170	160	260	300	1,040
Formation Springs.	1,300	1,260	1,300	1,300	1,260	6,420
Soda Creek	91	2422	3,689	3,673	1,896	11,771
Bailey Creek	0	389	267	362	238	1,256
Whiskey Creek	1,243	1,390	1,732	2,209	2,227	8,801
Trout Creek	1,860	3,690	2,770	1,950	1,430	11,700
Warm Creek	375	578	689	638	225	2,505
Williams Creek	1,585	1,696	2,098	1,373	837	7,589
Cottonwood Creek	774	955	1,346	853	389	4,317
Bear River Pescadero to Alexander	0	419	843	591	119	1,972
Bear River Alexander to Oneida	5,024	21,727	29,292	23,897	15,832	95,772
Total diverted	14,367	40,750	99,650	40,634	26,464	171,865
Gain in Section	21,915	27,540	19,628	20,180	18,599	107,862
Excess- Bear River at Oneida	49,010	51,800	41,380	41,410	29,730	213,330
Apparent depletion (Supply-Excess)	-7,548	13,210	30,022	20,454	7,866	64,003

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLATE 37.

File No. Washington .... District ....

Oneida to Cutler Dam Section (Including Tributaries) 1945

Supply	May	June	July	Aug.	Sept	Total
	Acre-ft.					
Bear River at Oneida	49,010	51,800	41,380	41,410	29,730	213,330
Mink Creek at head of Twin Lakes Canal	16,530	22,445	8,058	4,692	3,591	55,316
Cub River nr. Preston	15,540	20,240	7,180	3,000	2,140	48,100
Cub River inflow Preston sta. to Franklin	4,109	3,913	1,720	1,200	968	11,910
Maple Creek	6,340	5,524	892	397	205	13,358
High Creek nr. Richmond	1,323	5,923	8,168	2,767	1,103	19,284
Cherry Creek	1,402	1,983	481	120	45	4,031
Summitt Creek	4,372	4,451	1,529	709	538	11,599
Birch Creek	228	1,355	439	196	101	2,319
Logan River	27,920	38,920	23,580	14,290	11,020	115,730
Providence Creek (Est)	870	840	870	870	840	4,290
Garr Spring (Est.)	310	300	310	310	300	1,530
Blacksmith Fork	11,810	12,310	7,060	6,180	5,320	42,680
Little Bear + Paradise-Hyrum Canals	3,040	7,236	10,769	7,432	4,787	33,264
Weston Creek below Reservoir (Est)	330	480	750	710	140	2,410
Clarkston Creek nr. Newton	382	1,060	1,240	416	384	3,482
Total Supply (inflow)	143,516	178,780	114,426	84,699	61,212	582,633
Cutler Reservoir Release (Cutler gage 1st of mo.)	-5,460	-1,320	2,640	-8,290	10,050	-2,380
Hyrum Reservoir	240	-200	3,820	2,660	530	7,050
Total Reservoir Supply	-5,220	-1,520	6,460	-5,630	10,580	4,670
Total Net Supply	138,296	177,260	120,886	79,069	71,792	587,303

Does not include additional supplies from Deep Creek, Battle Creek, Springs in vicinity of Wellsville, and storage from Glendale Reservoir, Twin Lakes Reservoir, Strong Arm Reservoir.

Creek, water applied from Strong Arm Reservoir, Twin Lakes Reservoir, and Glendale Reservoir

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UNITED STATES
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GEOLOGICAL SURVEY

File No. { Washington
District

PLATE 38.

(Continued)

Oneida to Cutler Dam Section (including Tributaries) 1945

Diverted	May	June	July	Aug.	Sept.	Total
	Acre-ft.					
Bear River, Oneida to Preston	1,559	5,499	9,924	7,374	5,443	29,799
Cub River Pumps	0	0	3,457	2,106	974	6,537
Cache Valley Pumps	205	569	1,578	1,129	376	3,857
Twin Lakes Canal	8,010	6,650	5,140	2,340	1,780	23,920
Preston-Riverdale & Mink Creek Canal	380	435	2,370	2,110	1,130	6,425
Cub River Canals	3,374	5,686	8,286	3,876	2,708	23,930
Maple Creek Canals	94	375	856	397	205	1,927
High Creek Canals	1,267	2,544	2,565	1,038	625	8,039
Cherry Creek Canals	526	622	482	120	45	1,795
Summitt & Birch Cr. Canals	1,612	2,329	3,107	1,394	796	9,238
Logan River Canals	7,302	11,223	20,868	13,409	7,629	60,431
Blacksmith Fork Canals	2,622	4,792	9,266	7,699	4,475	28,854
Providence Creek Canals	870	840	870	870	840	4,290
Garr Springs Canals	310	300	310	310	300	1,530
Little Bear River Canals	3040	7,236	10,769	7,432	4,787	33,264
Weston Creek Canals (Est.)	530	940	1,150	1,120	640	4,380
Clarkston Creek Canals below dam	382	1,060	1,240	416	384	3,482
Total Diverted	32,083	51,100	82,238	53,140	33,137	251,698
Gain (adjusted for reservoir supply)	50,877	63,770	15,852	33,361	29,475	193,335
Excess						
Bear River nr. Collinston	137,600	162,600	5,720	22,480	40,560	368,960
West Side Canal	16,540	22,430	39,330	29,190	22,750	130,240
Hammond Canal	2,950	4,900	9,450	7,620	4,820	29,740
Total	157,090	189,930	54,500	59,290	68,130	528,940
Apparent depletion-Total net (Supply-Excess)	-18,794	-12,670	66,386	19,779	3,662	58,363

Does not include water diverted into West Cache Canal from Deep Creek, water applied from Strong Arm Reservoir, Twin Lakes Reservoir, and Glendale Reservoir

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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PLATE 39.

File No. { Washington
District

Upper Wyoming Section (Bear River) 1944

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Ut.-Wyo. St. line	42,790	58,460	23,990	3,870	2,090	131,200
Hilliard E.F. Canal (BR)	0	0	536	551	273	1,360
Mill Cr. below Div. (Est.)	9,370	6,490	0	0	0	15,860
Sulphur Cr. nr. Evanston	7,020	2,930	392	48	24	10,414
Yellow Cr. below div.	3,000	500	0	0	0	3,500
Total Supply	62,180	68,380	24,918	4,469	2,387	162,334
Diverted						
Hilliard E.F Canal (BR)	0	0	536	551	273	1,360
Lannon Canal	433	470	386	104	7	1,400
Hilliard W. Side Canal	0	501	1,656	782	265	3,204
Bear to Barton Canals	6,100	14,734	11,156	2,212	1,195	35,397
Faulkner to Turner Canals	5,327	8,927	3,895	116	207	18,472
Bowns to Island Canal	3,672	12,341	4,775	74	69	20,931
Total diverted	15,532	36,973	22,404	3,839	2,016	80,764
Gain in Section	17,612	27,983	9,636	-556	-371	54,304
Excess - Bear River nr. Woodruff	64,260	59,390	12,150	74	0	135,874
Apparent depletion (Supply - Excess)	-2,080	8,990	12,768	4,395	2,387	26,460
Diverted out of section						
Hilliard E.F. (BR) canal	0	0	536	551	273	1,360
Hilliard W. Side Canal	0	501	1,656	782	265	3,204
Bear Canal	228	3,045	3,358	755	241	7,627
Chapman Canal at St. line	718	4,310	936	0	0	5,964
Total	946	7,856	6,486	2,088	779	18,155

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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PLATE 4C.

File No. { Washington
District

Middle Utah Section (Bear River) 1944

	May	June	July	Aug	Sept.	Total
Supply						
Bear River nr. Woodruff	64,260	59,390	12,150	74	0	135,874
Diverted						
Francis Lee to BQ W. Side Canals	36,016	46,518	12,064	306	396	100,300
Gain in Section	15,296	32,878	16,584	2,822	2,006	69,586
Excess - Bear River nr. Randolph	43,540	45,750	11,620	2,590	1,610	105,160
Apparent depletion (Supply - Excess)	20,720	13,640	480	-2516	-1,610	30,714

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DEPARTMENT OF THE INTERIOR
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File No. { Washington ..... / District .....

PLATE 41.

Middle & Lower Wyoming Sections (Bear River & Sm. Fork) 1944

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Randolph	43,540	45,750	11,670	2,590	1,610	105,160
Smiths Fork nr. Border	20,180	31,600	15,060	8,330	5,990	81,160
Howland Creek	575	591	315	208	134	1,823
Pine Cr. above Covey	531	288	379	283	474	1,955
Spring Cr. above Covey	323	250	222	262	248	1,305
Twin Creek below div.	1,722	3,824	10	155	212	5,973
Total Supply	66,921	82,303	27,656	11,828	8,668	197,376
Diverted						
BQ. to Richards canals	10,790	25,492	8,526	1,527	2,628	48,963
Smiths Fork canals	2,688	13,258	14,383	9,222	5,985	45,536
Haggerty East canal	0	107	4	55	0	166
Haggerty West canals	4	0	5	110	13	132
Total diverted	13482	38857	22,918	10,914	8,626	94,797
Gain in Section	13,601	33,004	22,792	8,696	6,478	84,571
Excess - Bear River at Border	67,040	76,450	27,530	9,610	6,520	187,150
Apparent depletion (Supply - Excess)	-119	5,853	126	2,218	2,148	10,226

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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PLATE 42.

File No. { Washington ..... / District .....

Upper Idaho Section (Bear River) 1944

	Acre-Feet					
	May	June	July	Aug	Sept.	Total
Supply						
Bear River at Border	67,040	76,450	27,530	9,610	6,520	187,150
Thomas Fork below Dalton Canal	4,768	2,699	1,600	1,605	871	11,543
Total Supply	71,808	79,149	29,130	11,215	7,391	198,693
Diverted Miller to West Fork Canals	21,452	28,831	14,747	8,520	6,981	80,531
Gain in Section	2,607	8,746	8,927	4,276	2,390	26,946
Excess						
Bear River below Stewart	823	8,830	19,160	4,710	1,750	35,273
Rainbow Canal	51,170	49,720	3,910	1,890	885	107,575
Dingle Inlet Canal	970	514	240	371	165	2,260
Total Excess	52,963	59,064	23,310	6,971	2,800	145,108
Apparent depletion (Supply - Excess)	18,845	20,075	5,820	4,244	4,591	53,585

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File No. { Washington ..... / District .....

PLATE 43.

Idaho Stewart to Pescadero (Bear River) 1944

	May	June	July	Aug	Sept.	Total
Supply						
Bear River below Stewart	823	8,830	19,160	4,710	1,750	35,273
Outlet Canal at Dike	1,560	1,540	38,760	54,130	21,480	117,470
Montpelier Cr. below diversions	404	30	12	3	0	449
Total Supply	2,787	10,400	57,932	58,843	23,230	153,192
Diverted	0	0	0	0	0	0
Gain in Section	12,303	17,560	3,448	3,017	2,390	38,718
Excess - Bear River at Pescadero	15,090	27,960	61,380	61,860	25,620	191,910
Apparent depletion (Supply - Excess	-12,303	-17,560	-3,448	-3,017	-2,390	-38,718

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington .....
District .....

PLATE 45.

Middle Utah Section (Bear River) 1945

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply Bear River nr. Woodruff	31,470	36,480	10,140	1,950	2,220	94,260
Diverted Francis Lee to B.Q.W.-Side Canals	38,184	44,795	21,648	4,424	1,175	110,226
Gain in Section	14,364	30,455	19,618	4834	3,055	72,326
Excess-Bear River nr Randolph	13,650	22,140	8,110	8,360	4,100	56,360
Apparent depletion (Supply-Excess)	23,820	14,340	2,030	- 440	-1,880	37,900

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File No. Washington ..... District .....

PLATE 46.

Middle and lower Wyoming Section (Bear River + Smiths Fork) 1945

	Acre-feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Randolph	13,650	22,140	8,110	8,360	4,100	56,360
Smiths Fork nr. Border	25,360	35,440	19,430	10,150	7,170	97,550
Howland Creek	508	625	390	239	156	1,918
Pine Cr. above Covey	508	488	461	443	477	2,377
Spring Creek above Covey	310	259	253	294	320	1,436
Twin Creek below div.	164	354	0	1,235	84	1,837
Total Supply	40,500	59,306	28,644	20,721	12,307	161,478
Diverted						
B.Q to Richards Canals	12,716	27,617	10,329	1,359	1,655	53,676
Smiths Fork Canals	6,277	14,888	13,961	10,508	2,904	48,538
Haggerty East Canal	0	86	0	0	0	86
Haggerty West Canals	0	35	47	27	12	121
Total diverted	18,993	42,626	24,337	11,894	4,571	102,421
Gain in Section	12,793	35,880	22,863	10,013	7,104	88,653
Excess-Bear River at Border	34,300	52,560	27,170	18,840	14,840	147,710
Apparent depletion (Supply-Excess)	6,200	6,746	1,474	1,881	-2,533	13,768

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington .....
District .....

PLATE 47.

Upper Idaho Section (Bear River) 1945

	Acre-feet					
	May	June	July	Aug.	Sept	Total
Supply						
Bear River at Border	34,300	52,560	27,170	18,840	14,840	147,710
Thomas Fork below Dalton Canal	6,680	10,818	4,387	2,991	2,366	27,242
Total Supply	40,980	63,378	31,557	21,831	17,206	174,952
Diverted Miller to West Fork Canals	14,131	26,348	16,354	7,160	3,224	67,217
Gain in Section	3,166	8,502	9,626	4,253	2,115	27,662
Excess						
Bear River below Stewart	815	1,230	1,650	9,150	1,590	14,435
Rainbow Canal	29,200	44,090	23,110	9,020	14,130	119,550
Dingle Inlet Canal	0	212	69	754	397	1,412
Total Excess	30,015	45,532	24,829	18,924	16,097	135,397
Apparent depletion (Supply - Excess)	10,965	17,846	6,728	2,907	1,109	39,555

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File No. { Washington
District

PLATE 48.

Idaho Stewart to Pescadero (Bear River) 1945

	Acre-ft.					
	May	June	July	Aug	Sept	Total
Supply						
Bear River below Stewart	815	1,230	1,650	9,150	1,590	14,435
Outlet Canal at Dike	204	2,670	39,720	27,940	13,010	83,544
Montpelier Cr. below Diversions	678	1,426	17	35	201	2,357
Total Supply	1,697	5,326	41,387	37,125	14,801	100,336
Diverted	0	0	0	0	0	0
Gain in Section	10,023	20,874	6,433	4,375	4,049	45,754
Excess - Bear River at Pescadero	11,720	26,200	47,820	41,500	18,850	146,090
Apparent depletion (Supply - Excess)	-10,023	-20,874	-6,433	-4,375	-4049	-45,754

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File No. { Washington ....
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PLATE 49.

Upper Wyoming Section (Bear River) 1946

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Ut.-Wyo. St. Line	38,940	35,670	8,930	3,640	2,350	89,530
Hilliard E.F Canal	170	1,040	996	510	285	3,001
Mill Creek below Div.	5,679	1,997	63	82	67	7,888
Sulphur Cr. nr. Evanston	2,040	567	198	55	41	2,901
Yellow Creek below Div.	2,576	457	0	0	0	2,833
Total Supply	49,205	39,731	10,187	4,287	2,743	106,153
Diverted						
Hilliard E.F. Canal						
Lannon Canal	584	606	622	593	187	2,592
Hilliard W. Side Canal	35	779	1,638	1,031	545	4,028
Bear to Barton Canals	10,759	19,032	6,665	1,377	823	38,655
Faulkner to Turner Canals	4,589	6,580	1,814	315	138	13,436
Bowns to Cowlishaw Canals	9,291	8,907	1,181	63	0	19,442
Total diverted	25,257	35,904	11,920	3,379	1,693	78,153
Gain in Section	17,552	18,553	2,187	-877	-1,050	36,365
Excess - Bear River nr Woodruff	41,500	22,380	454	31	0	64,365
Apparent depletion (Supply - Excess)	7,705	17,351	9,733	4,256	2,743	41,788
Diverted out of Section						
Hilliard E.F. Canal	170	1,040	996	510	285	3,001
Hilliard W. Side Canal	35	779	1,638	1,031	545	4,028
Bear Canal	570	3,594	1,404	299	273	6,140
Chapman Canal at St. Line	2,960	2,710	4	0	0	5,674
Total	3,735	8,123	4,042	1,840	1,103	18,843

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PLATE 50.

File No. { Washington ..... / District .....

Middle Utah Section (Bear River) 1946

	Acre-Feet					
	May	June	July	Aug	Sept	Total
Supply						
Bear River nr. Woodruff	41,500	22,380	454	31	0	64,365
Diverted						
Francis Wee to B.Q.W-Side Canals	34,378	31,765	3,093	863	591	70,684
Gain in Section	31,922	23,745	4,969	2,852	2,331	65,819
Excess-Bear River nr. Randolph	39,050	14,360	2,330	2,020	1,740	59,500
Apparent depletion (Supply-Excess)	2,450	8,020	-1,876	-1,989	-1,740	4,865

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File No. { Washington / District }

Middle and Lower Wyoming Sections (Bear River + Smiths Fork) 1946

	Acre-Feet					
	May	June	July	Aug.	Sept	Total
Supply						
Bear River near Randolph	39,050	14,360	2,330	2,020	1,740	59,500
Smiths Fork nr Border	34,460	29,810	13,690	8,440	6,350	92,250
Howland Creek	1,016	473	313	235	179	2,216
Pine Cr. above Covey	681	504	342	430	479	2,436
Spring Cr. above Covey	330	274	249	269	286	1,408
Twin Creek below div.	1,595	159	26	186	73	2,039
Total Supply	77,132	45,080	16,950	11,580	9,107	159,849
Diverted						
B.Q to Richards Canals	17,622	18,875	6,238	780	739	44,254
Smiths Fork Canals	5,954	17,391	13,573	8,878	3,299	49,095
Haggerty East Canal	0	18	21	31	0	70
Haggerty West Canals	0	0	0	0	0	0
Total diverted	23,576	36,284	19,832	9,689	4,038	93,419
Gain in Section	27,394	29,114	17,872	8,559	5,801	88,740
Excess - Bear River at Border	80,950	37,910	14,990	10,450	10,870	155,170
Apparent depletion (Supply - Excess)	-3818	7,170	1,960	1,130	-1,763	4,679

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File No. { Washington ..... / District .....

PLATE 52.

Upper Idaho Section (Bear River) 1946

	Acre-feet					
	May	June	July	Aug.	Sept	Total
Supply						
Bear River at Border	80,950	37,910	14,990	10,450	10,870	155,170
Thomas Fork below Dalton Canal	16,661	5358	2986	2,157	1,617	28,778
Total Supply	97,611	43,268	17,975	12,607	12,487	183,948
Diverted Miller to West Fork Canals	21,824	28,450	14,799	8,458	5,128	78,659
Gain in Section	17,368	9,836	6,896	4,935	3593	42,618
Excess						
Bear River below Stewart	972	1,150	1,360	1,340	1,260	6082
Rainbow Canal	91,630	23,290	8,250	6,970	8,990	139,130
Dingle Inlet Canal	543	214	462	774	702	2,695
Total Excess	93,145	24,654	10,072	9,084	10,952	147,907
Apparent depletion (Supply - Excess)	4,466	18,614	7,903	3,523	1,535	36,041

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PLATE 53.

File No. { Washington .....
District .....

Idaho Stewart to Pescadero (Bear River) 1946

	Acre-ft. May	June	July	Aug	Sept.	Total
Supply						
Bear River below Stewart	972	1,150	1,360	1,340	1,260	6,082
Outlet Canal at Dike	3,430	24,060	47,360	52,580	26,320	153,750
Montpelier Cr. below Diversions	3,747	458	10	21	458	4,694
Total Supply	8,149	25,668	48,730	53,941	28,038	164,526
Diverted	0	0	0	0	0	0
Gain in Section	21,121	11,632	8,660	4,139	4,152	49,704
Excess-Bear River at Pescadero	29,270	37,300	57,390	58,080	32,190	214,230
Apparent depletion (Supply-Excess)	-21,121	-11,632	-8,660	-4,139	-4,152	-49,704

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PLATE 4.

File No. { Washington ..... / District .....

Upper Wyoming Section (Bear River) 1947

	Acre-Feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Ut.-Wyo. St. Line	55,570	52,190	23,510	6,480	3,270	141,020
Hilliard E.F. Canal	0	470	1,408	986	632	3,496
Mill Cr. below Div.	10,953	7,273	166	904	431	19,727
Sulphur Cr. nr. Evanston	3,570	5,610	1,040	1,090	98	11,348
Yellow Cr. below Div.	1,698	1,390	191	161	318	3,758
Total Supply	71,791	66,933	26,315	9,561	4,749	179,349
Diverted						
Hilliard E.F. Canal	0	470	1,408	986	632	3,496
Cannon Canal	476	671	590	334	300	2,371
Hilliard W. Side Canal	60	361	1,305	703	160	2,589
Bear to Myers No.1 Canals	7,247	9,927	9,178	3,491	1,710	31,553
Myers Irr. to Turner Canals	9,484	12,636	8,070	2,995	2,247	35,432
Bowns to Cawlishaw Canals	10,305	12,891	3,254	393	359	27,202
Total diverted	27,572	36,956	23,805	8,902	5,408	102,643
Gain in Section	14,991	24,133	8,530	2,221	1,859	51,474
Excess - Bear River nr. Woodruff	58,950	54,110	11,040	2,880	1,200	128,180
Apparent depletion (Supply - Excess)	12,891	12,823	15,275	6,681	3,549	51,169
Diverted out of section						
Hilliard E.F. Canal	0	470	1,408	986	632	3,496
Hilliard W. Side Canal	60	361	1,305	703	160	2,589
Bear Canal	1,398	3,070	3,346	1,628	732	10,174
Chapman Canal at St. Line	3,980	3,750	0	44	30	7,804
Total	5,438	7,651	6,059	3,361	1,554	24,063

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File No. { Washington ..... / District .....

PLATE 55.

Middle Utah Section (Bear River) 1947

	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Woodruff	58,950	54,110	11,040	2,880	1,200	128,180
Diverted						
Francis Lee to B.Q. W-Side Canals	42,003	41,759	18,221	2,982	1,697	106,662
Gain in Section	18,253	40,599	18,781	4,582	3,387	85,602
Excess-Bear River nr. Randolph	35,200	52,950	11,600	4,480	2,890	107,120
Apparent depletion (Supply-Excess)	23,750	1,160	-560	-1,600	-1,690	21,060

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UNITED STATES
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File No. { Washington
District

PLATE 56.

Middle and Lower Wyoming Sections (Bear River + Smiths Fork) 1947

	Acre-feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River nr. Randolph	35,200	52,950	11,600	4,480	2,890	107,120
Smiths Fork nr. Border	48,370	38,210	19,270	11,030	7,110	123,990
Hawland Creek	1,351	607	402	291	196	2,847
Pine Creek above Covey	176	464	399	452	468	1,959
Spring Cr. above Covey	109	275	206	273	284	1,147
Twin Creek below diversions	1,101	1,519	50	175	169	3,014
Total Supply	86,307	94,025	31,927	16,701	11,117	240,077
Diverted						
B.Q. to Richards Canals	13,730	21,952	5,734	658	199	42,273
Smiths Fork Canals	4,310	14,042	14,033	10,281	3,988	46,654
Haggerty East Canal	0	29	0	0	0	29
Haggerty West Canals	0	0	58	0	0	58
Total diverted	18,040	36,023	19,825	10,939	4,187	89,014
Gain in Section	13,123	33,438	20,848	11,208	6,180	84,797
Excess - Bear River at Border	81,390	91,440	32,950	16,970	13,110	235,860
Apparent depletion (Supply-Excess)	4,917	2,585	-1,023	-269	-1,993	4,217

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UNITED STATES
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File No. { Washington ..... / District .....

PLATE 57.

Upper Idaho Section (Bear River) 1947

	Acre-feet					
	May	June	July	Aug.	Sept.	Total
Supply						
Bear River at Border	81,390	91,440	32,950	16,970	13,110	235,860
Thomas Fork below Dalton Canal	15,333	7,117	4,439	3,894	1,940	32,223
Total Supply	96,723	98,557	37,389	20,364	15,050	268,083
Diverted Miller to West Fork Canals	20,309	31,736	12,816	6,591	5,862	77,314
Gain in Section	5,319	11,334	9,638	5,325	4835	36,451
Excess						
Bear River below Stewart	1,380	1,550	2,600	2,640	1,270	9,440
Rainbow Canal	80,010	76,220	31,290	15,930	12,610	216,060
Dingle Inlet Canal	343	385	321	528	143	1,720
Total Excess	81,733	78,155	34,211	19,098	14,023	227,220
Apparent depletion (Supply-Excess)	14,990	20,402	3,178	1,266	1,027	40,863

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File No. { Washington / District

PLATE

Idaho Stewart to Pescadero (Bear River) 1947

	Acre-ft. May	June	July	Aug	Sept	Total
Supply						
Bear River below Stewart	1,380	1,550	2,600	2,640	1,270	9,440
Outlet Canal at Dike	6,400	16,740	67,380	73,080	49,730	213,330
Montpelier Cr. below diversions	2,146	958	82	0	41	3,227
Total Supply	9,926	19,248	70,062	75,720	51,041	225,997
Diverted	0	0	0	0	0	0
Gain in Section	17,174	20,362	5,918	1,530	2,769	47,753
Excess-Bear River at Pescadero	27,100	39,610	75,980	77,250	53,810	273,750
Apparent depletion (Supply-Excess)	-17,174	-20,362	-5,918	-1,530	-2,769	-47,753

S T O R A G E D A T A

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BEAR RIVER COMPACT ENGINEERING COMMITTEE

April 12, 1949

Prepared by W. V. Iorns
U. S. Geological Survey

INDEX OF TABLES

COMPARISON OF BEAR LAKE STORABLE WATER AND IRRIGATION DEMAND BELOW BEAR LAKE -

Quantities in Acre-Feet

PLATE 1.

Year	Bear Lake Contents Oct. 1	Flow at Stewart Oct.1 to Mar. 31	Stored in Bear Lake Apr. 1 to Beginning Of Draft	Estimated Diversion Loss Oct. to March	Total Storable in Bear Lake	Bear Lake Gain or Loss	Storage Draft for Irrigation	Diversion Loss	Total Draft for Irrigation
1931	646,700	77,450	8,489	7,200	78,739	-87,751	214,951	8,646	223,597
1932	339,500	29,372	165,865	7,200	188,037	50,147	56,986	5,470	62,456
1933	508,300	60,727	68,051	7,200	121,578	-26,859	127,480	8,244	135,724
1934	466,700	43,931	1,019	7,200	37,750	-132,630	222,523	7,577	230,100
1935	133,500	18,770	30,541	7,200	42,111	-33,669	114,628	5,334	119,962
1936	20,600	35,989	252,436	7,200	281,225	73,840	42,441	4,205	46,646
1937	328,800	67,259	170,767	7,200	230,826	51,320	72,735	4,931	77,666
1938	508,300	72,940	196,610	7,200	262,350	35,510	42,926	6,171	49,097
1939	750,000	105,780	64,317	7,200	162,897	-46,530	140,852	14,145	154,997
1940	654,500	47,245	2,744	7,200	42,789	-101,403	196,942	8,901	205,843
1941	381,500	45,118	26,100	7,200	64,018	-31,290	77,857	6,323	84,180
1942	315,100	69,244	106,161	7,200	168,205	-10,270	127,888	7,751	135,639
1943	308,800	66,557	182,250	7,200	241,607	55,780	60,137	21,531	81,668
1944	492,300	61,104	163,016	7,200	216,920	-12,606	101,743	5,921	107,664
1945	563,800								
10 year period 1931 to 1940 - Storable supply averages 14,200 ac. ft. annually more than irrigation demand.									
Totals		559,463	960,839	72,000	1,448,302	-218,025	1,232,464	73,624	1,306,088
Averages					144,800	-21,800			130,600
14 year period 1931 to 1944 - Storable supply averages 30,300 acre feet annually more than irrigation demand.									
Totals		801,486	1,438,366	100,800	2,139,052	-216,411	1,600,089	115,150	1,715,239
Averages					152,800	-15,400			122,500
24 year period 1924 to 1947 - Storable supply averages 80,700 acre feet annually more than irrigation demand.									
Totals		1,775,517	2,679,912	172,800	4,282,629	85,844	2,270,702	73,624	2,344,326
Averages					178,400	3,600			

File No. Washington
Field

Plate 6
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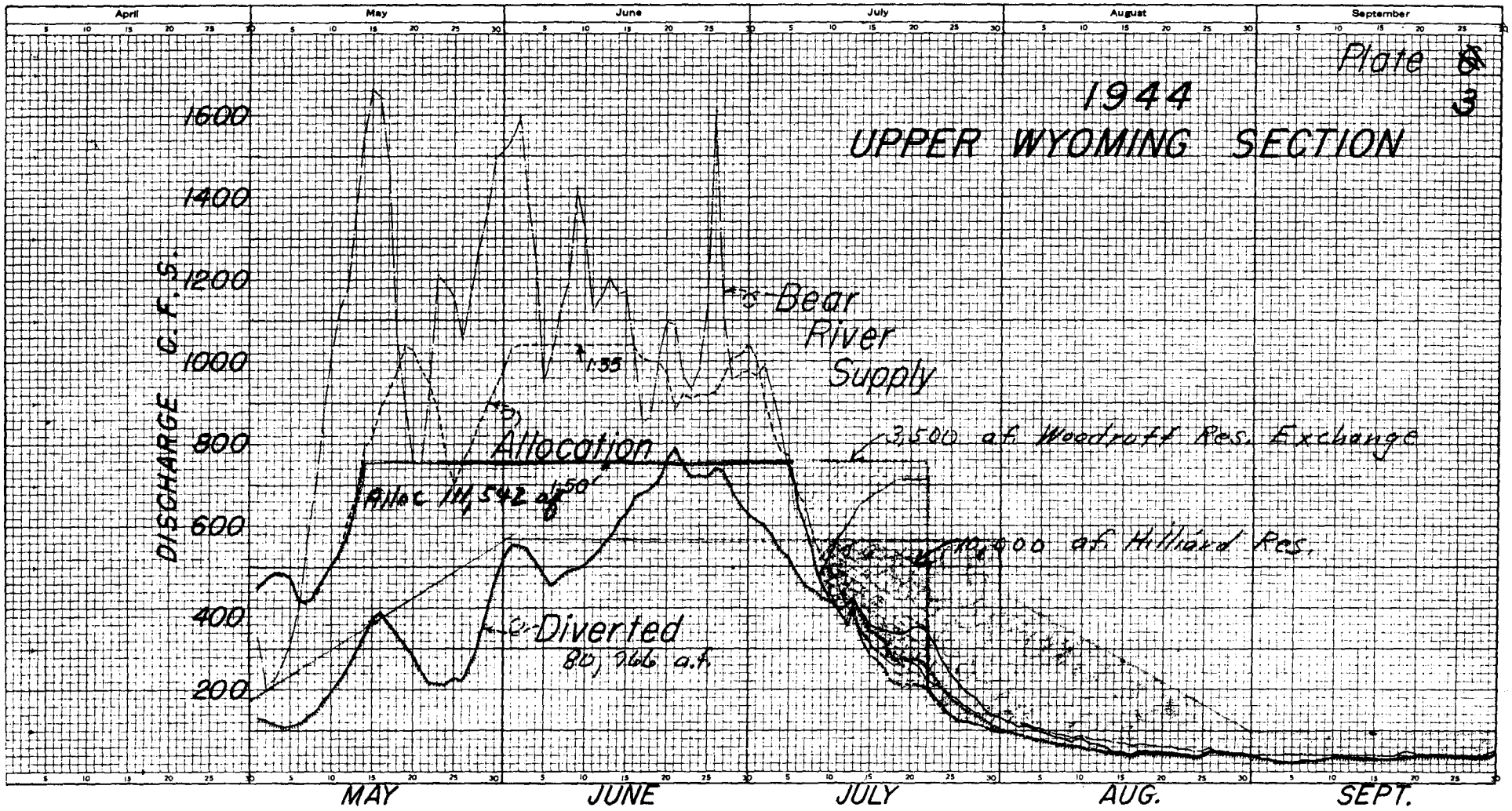
1944
UPPER WYOMING SECTION



2.80 a.f./a.c. Max. 112,000 a.f.

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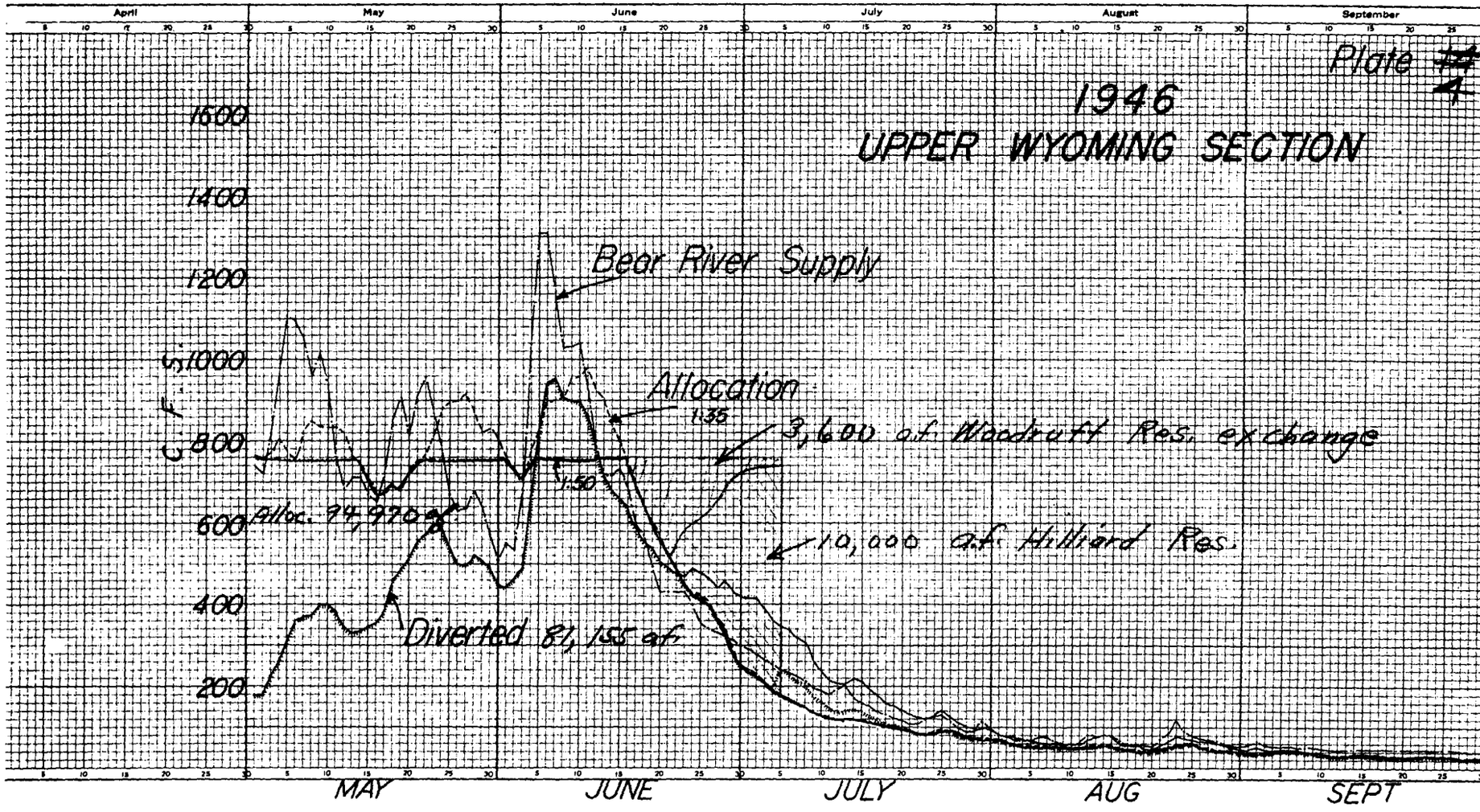
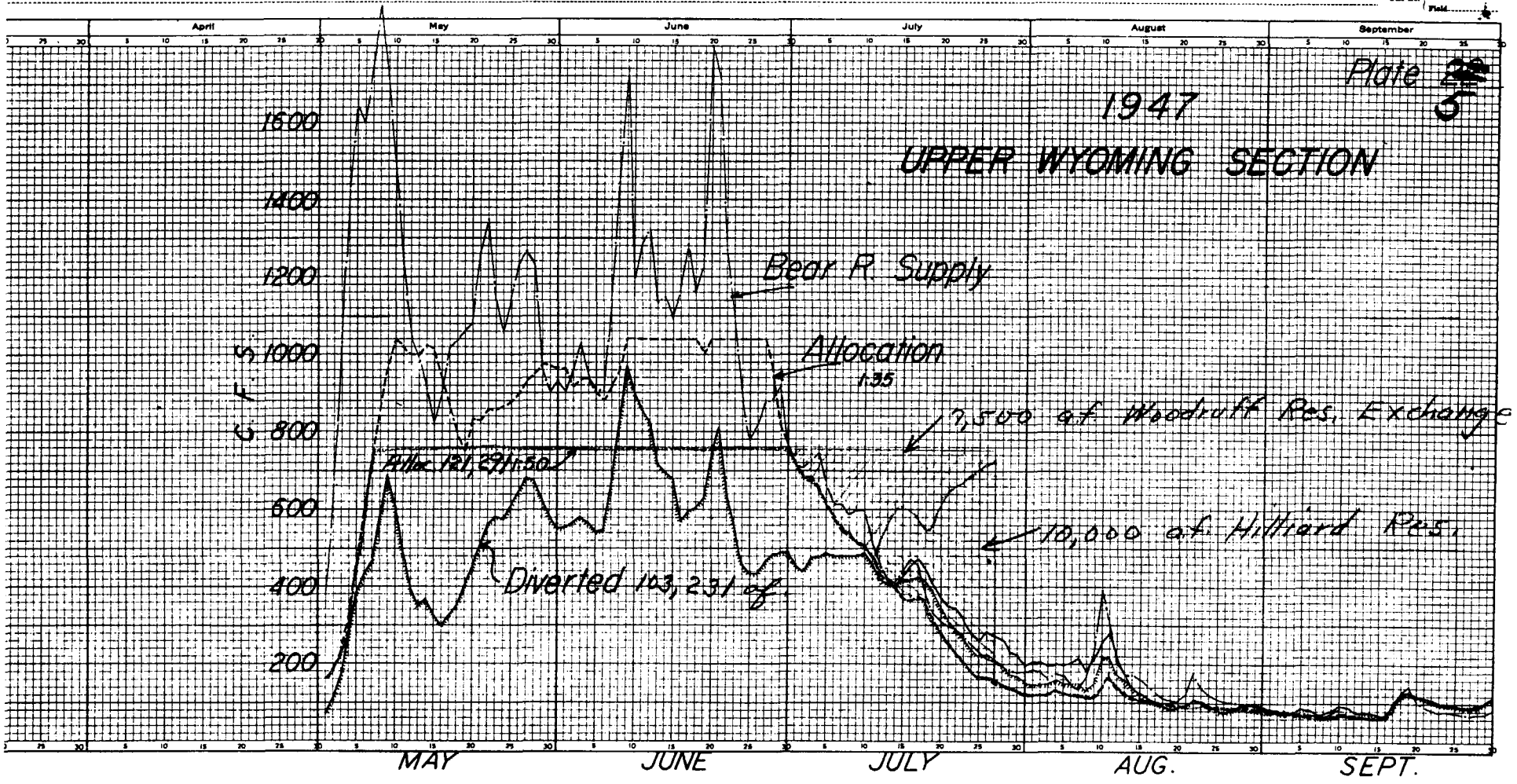
1946
UPPER WYOMING SECTION



2.80 af/ac = 112,000 af.

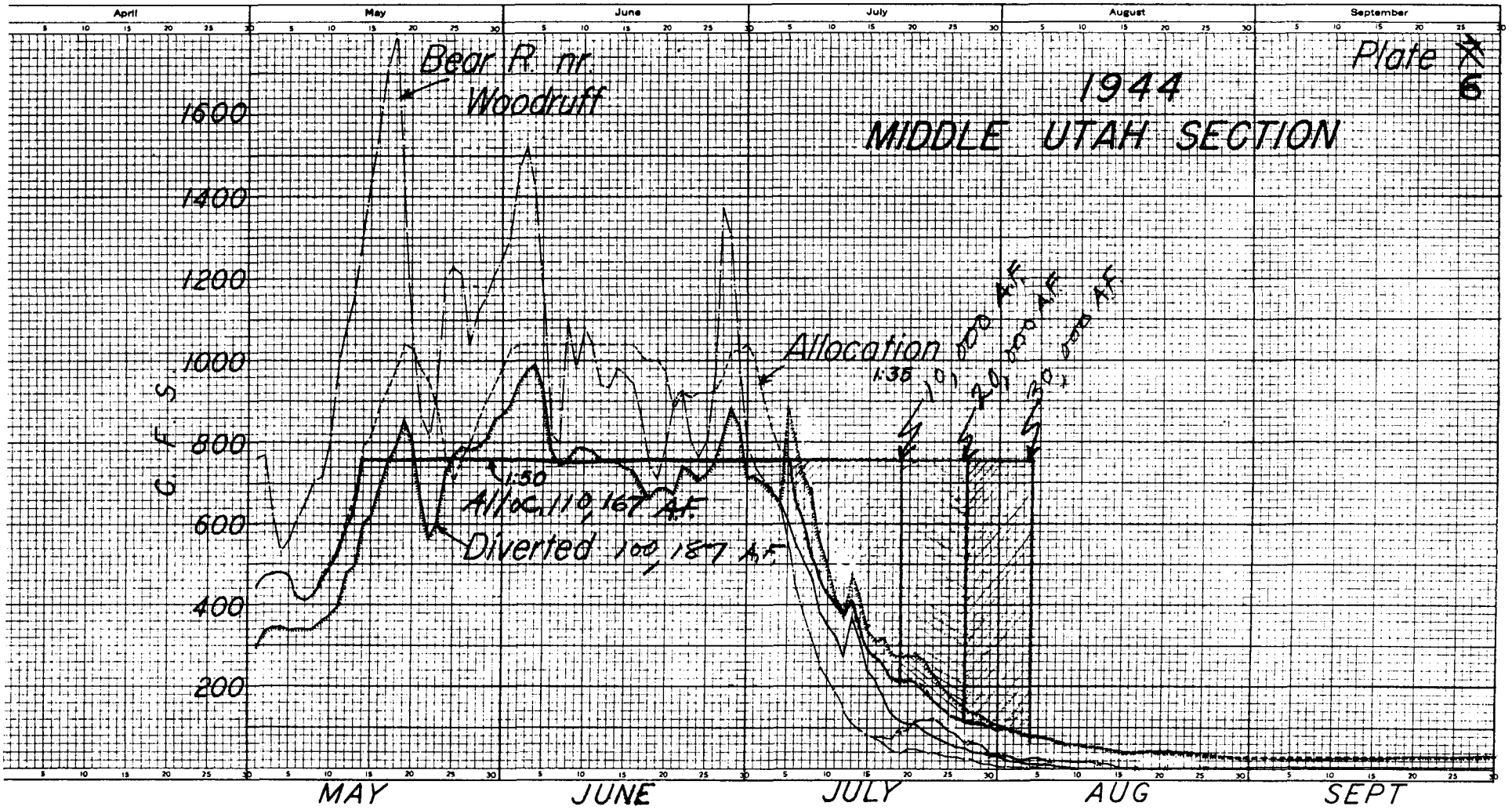
File No. { Washington / Field

Plate ~~2~~ 3



2.80 ~~c.f.s.~~ = 112,000 a.f.

File No. Washington
Field



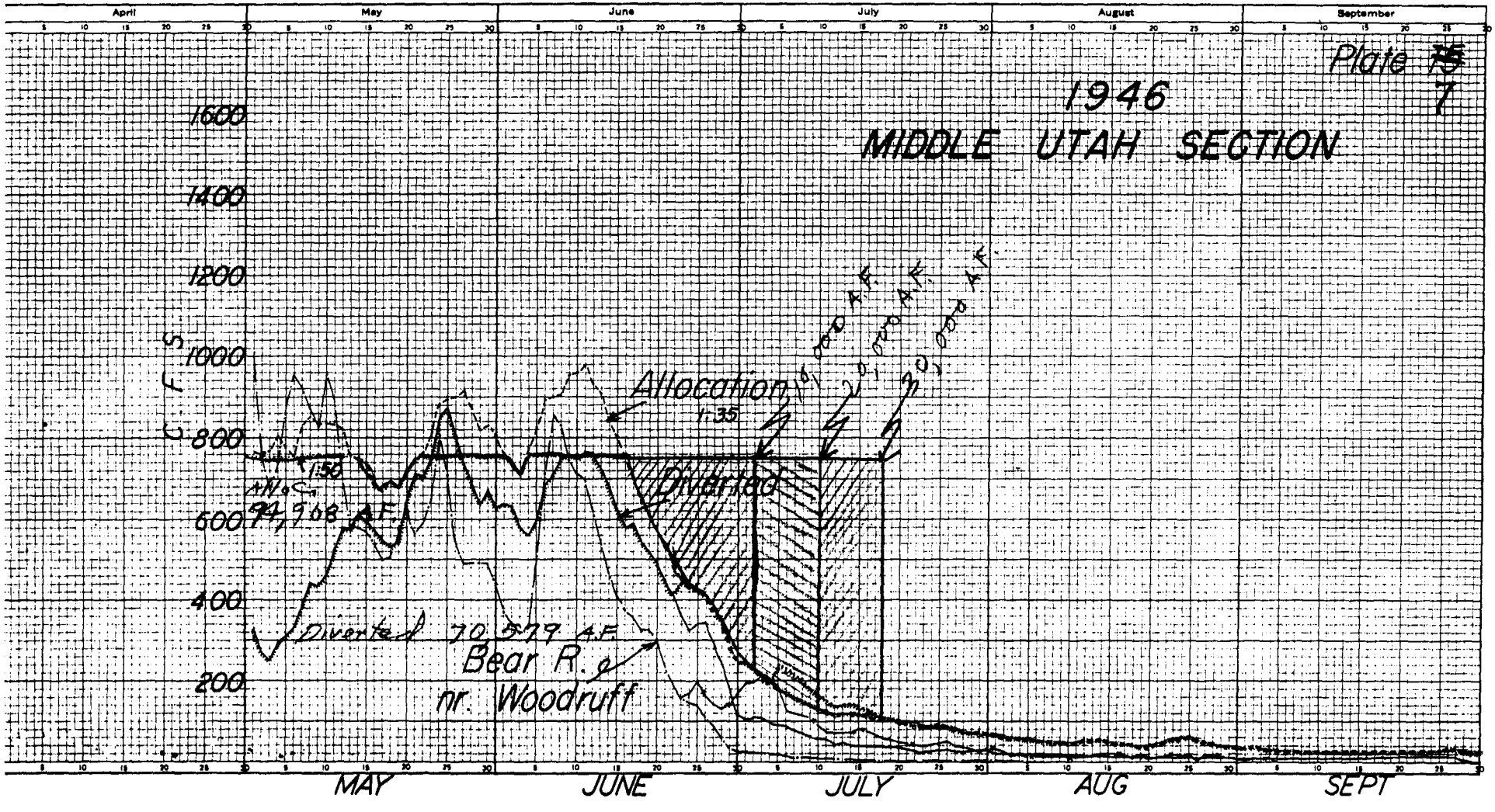
3.00 A.F./Ac. = 111,600 A.F.

File No. { Washington / Field

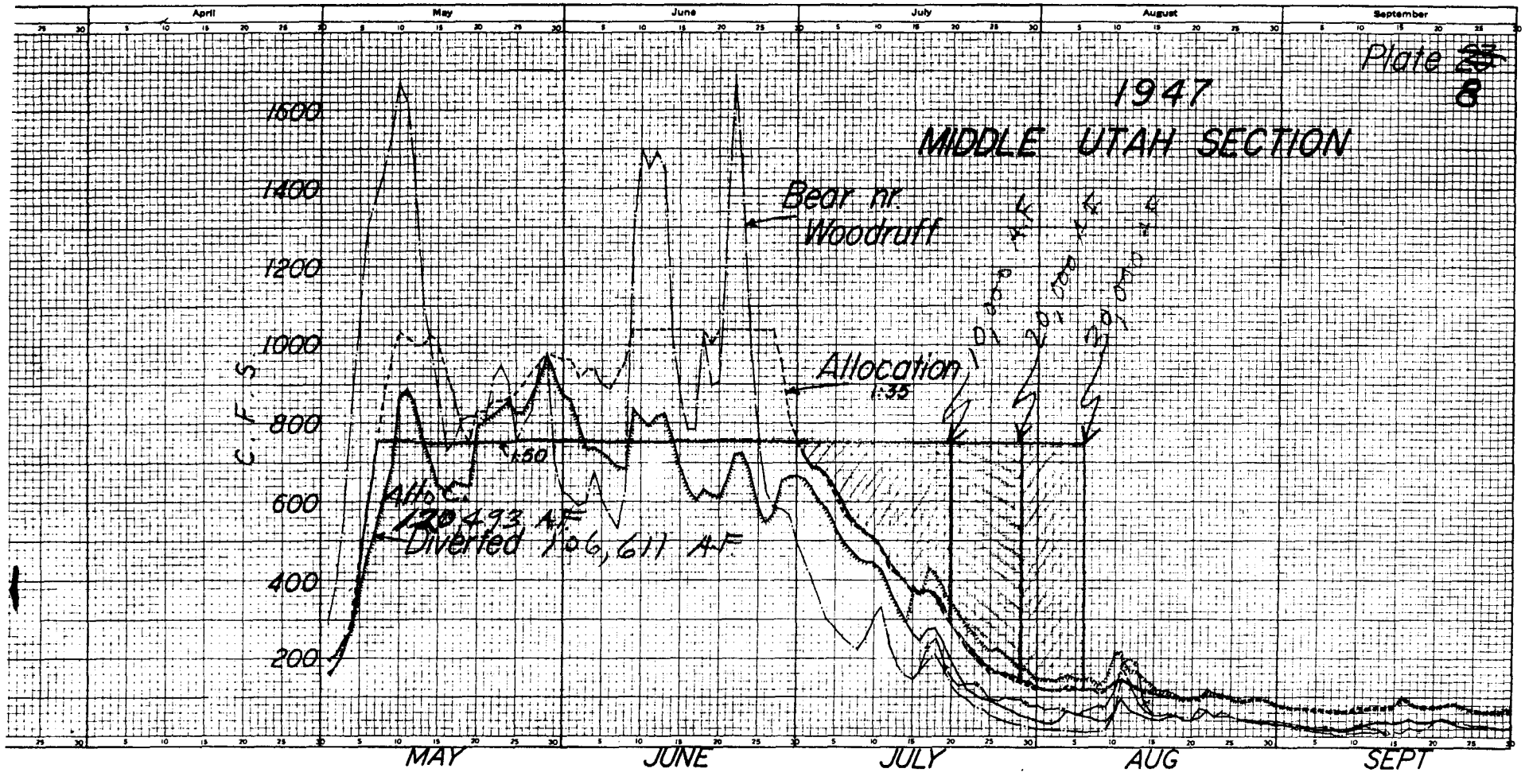
Plate ~~15~~ 7

1946

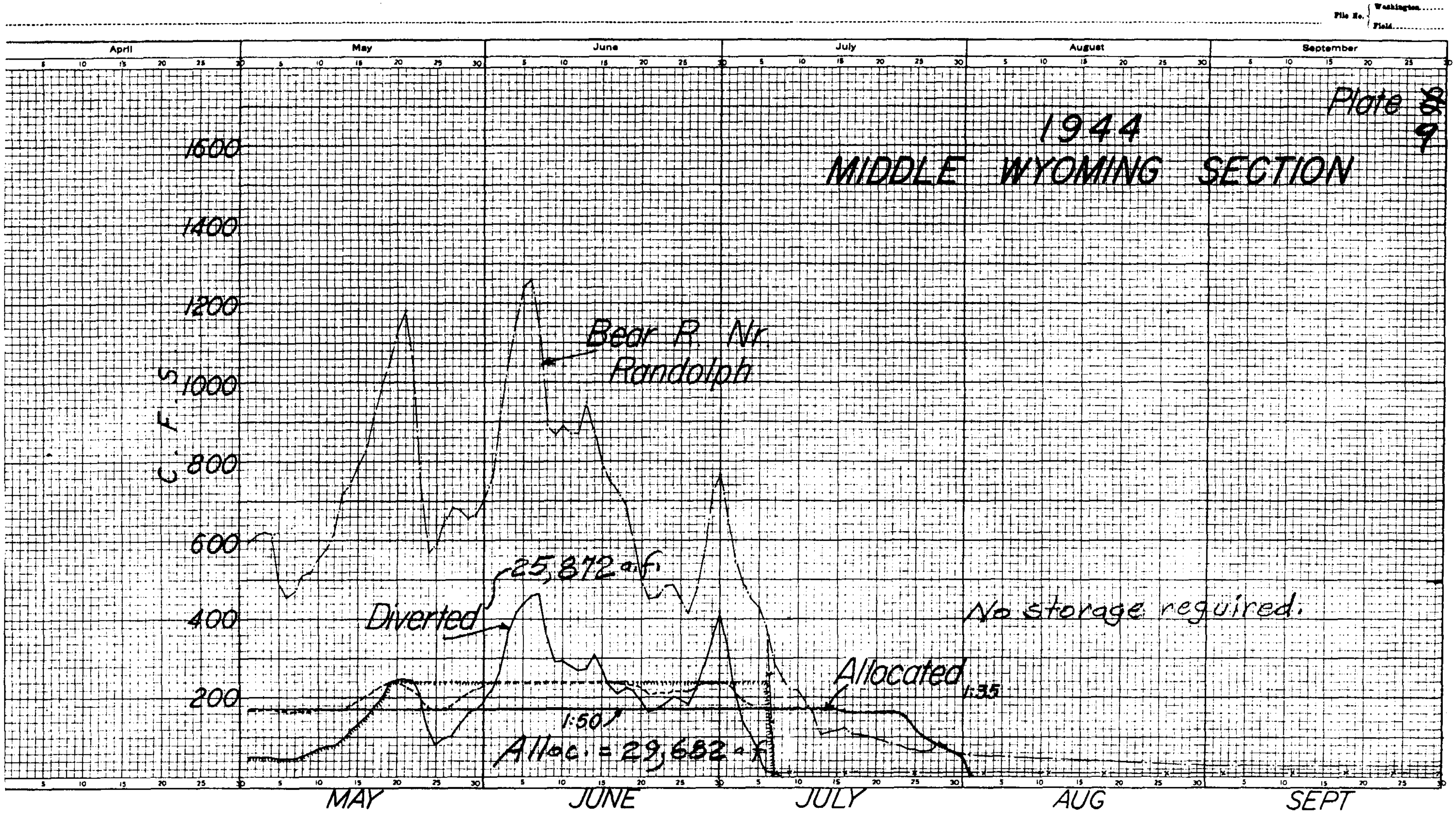
MIDDLE UTAH SECTION



3.00 A.F./Ac. = 11,600 A.F.



3.00 AF/AC. = 111,6[illegible] A.F.

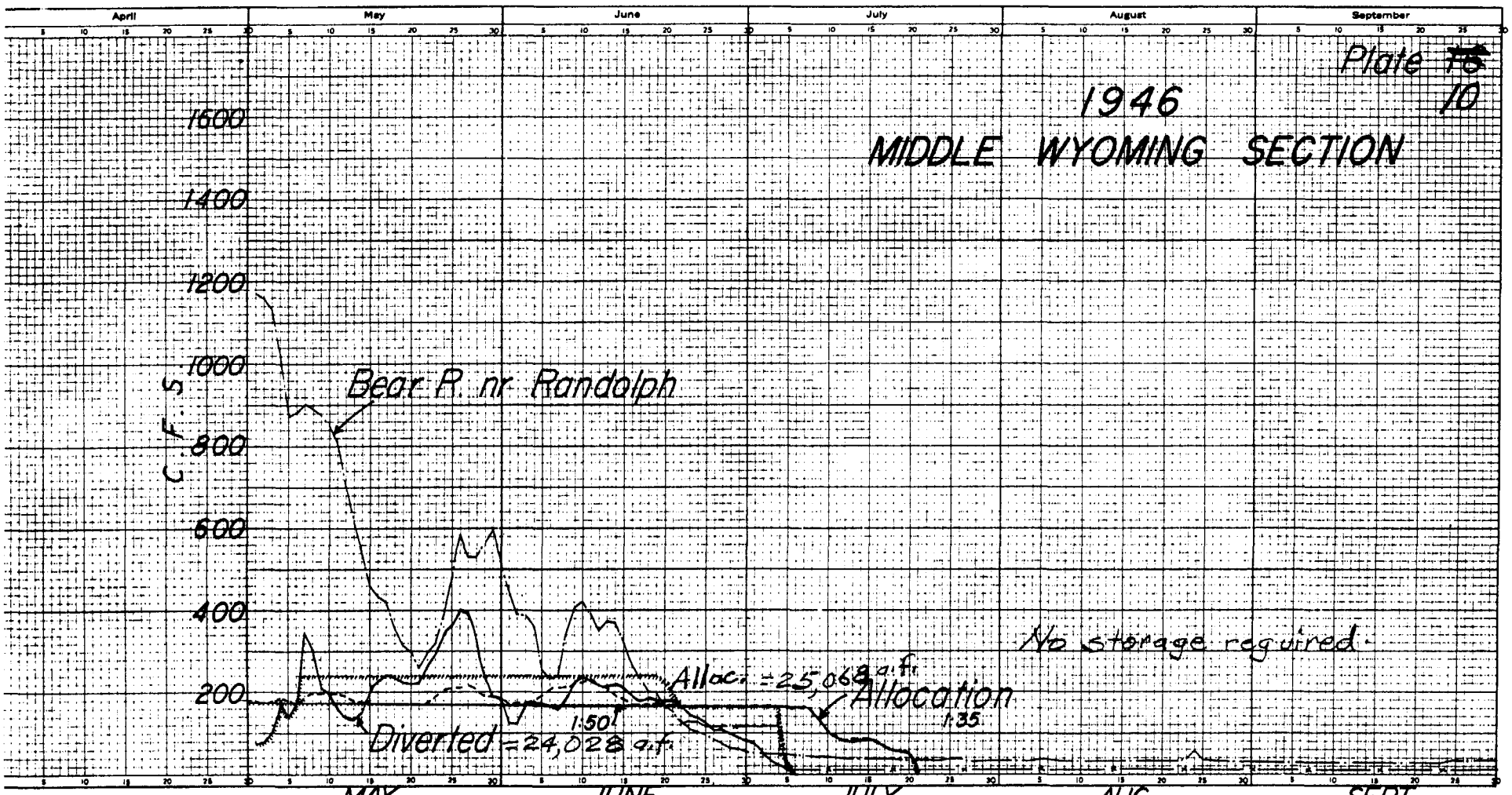


3.00 ac.-ft./acre = 24,900 ac.-ft.

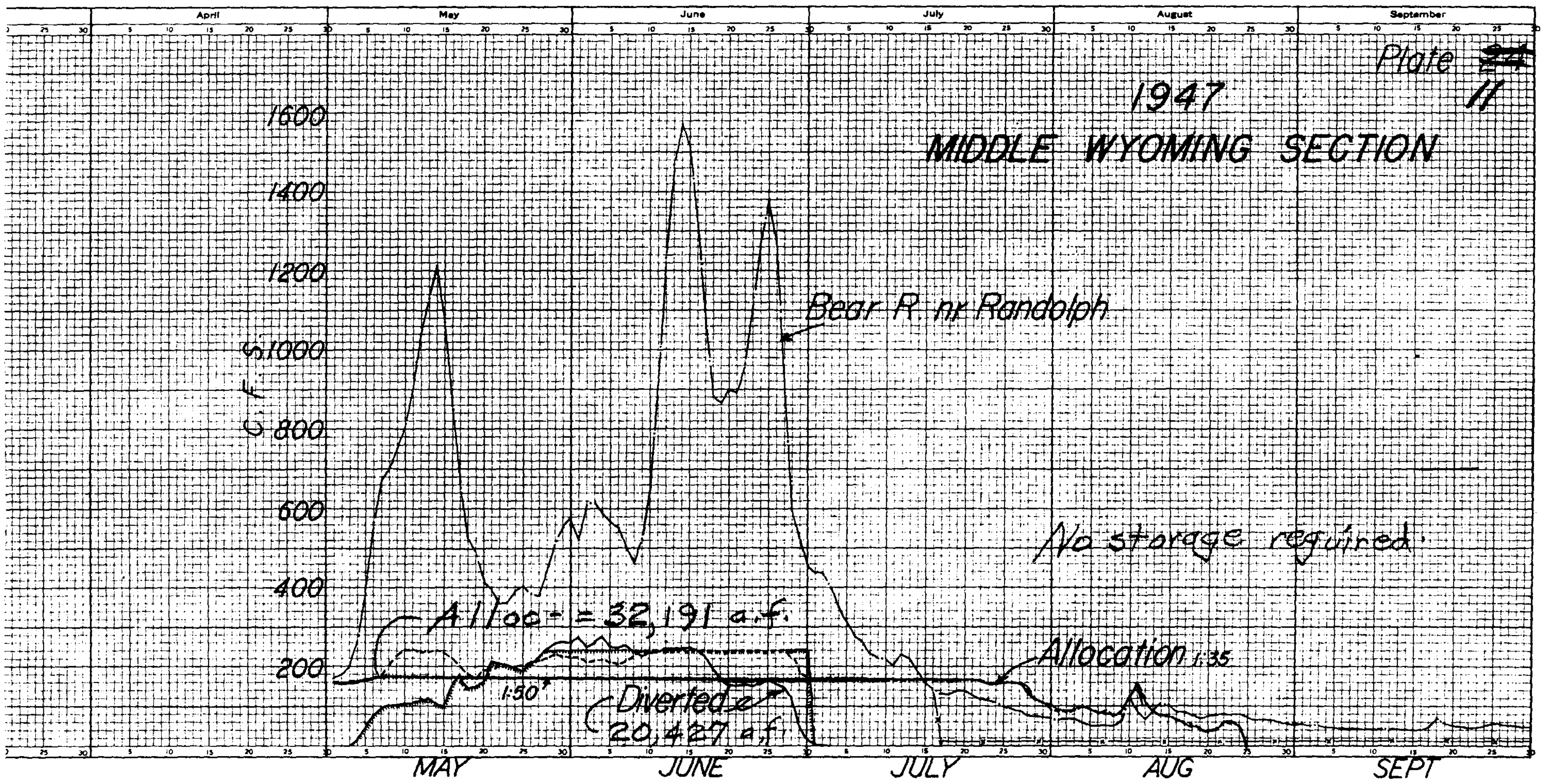
File No. { Washington / Field

Plate ~~16~~ 10

1946
MIDDLE WYOMING SECTION



3.00 ac.-ft/acre = 24,900 ac.-ft.



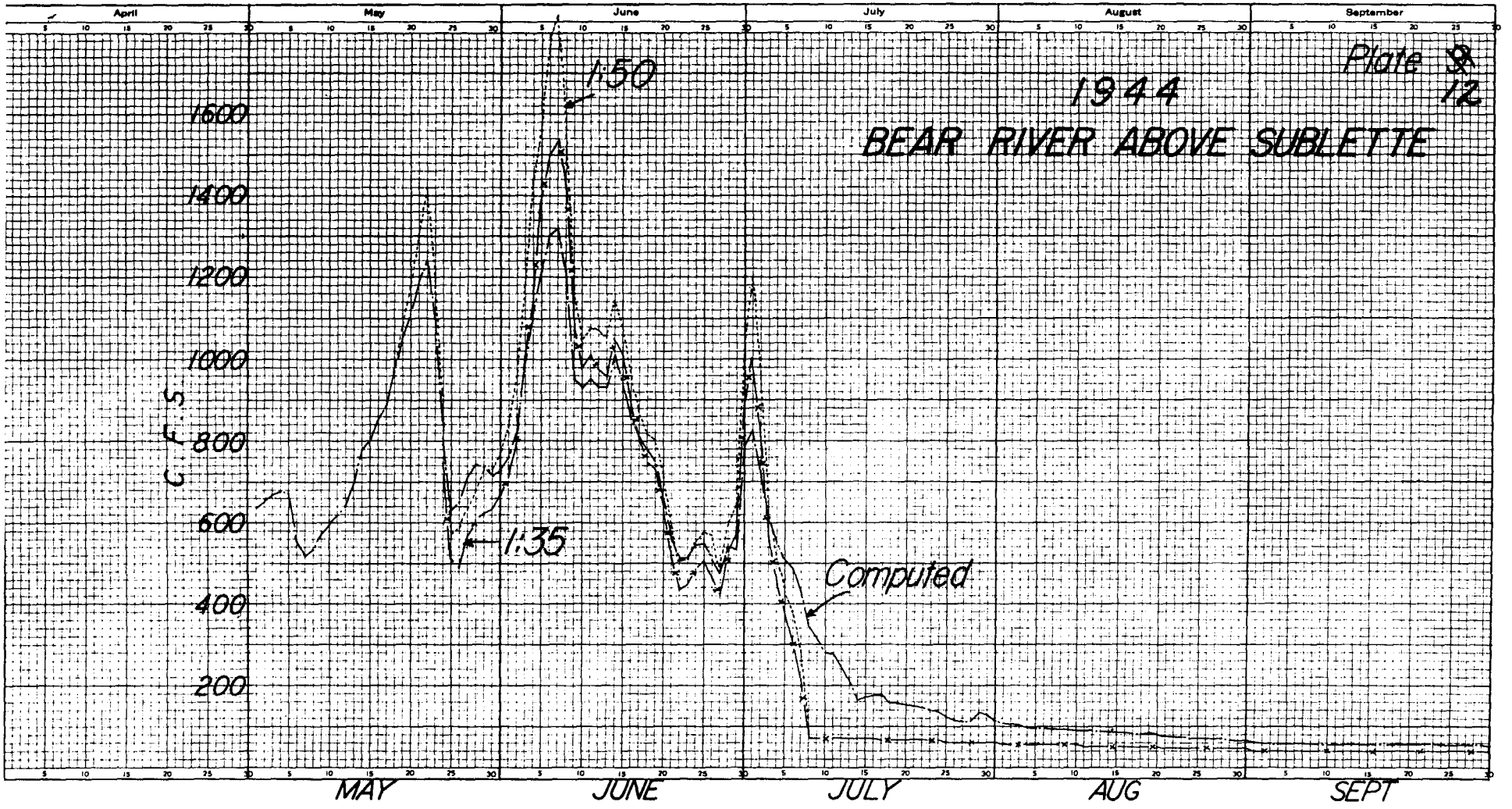
3.00 ac-ft/acre = 24,900 ac-ft.

File No. { Washington / Field

Plate 8
12

1944

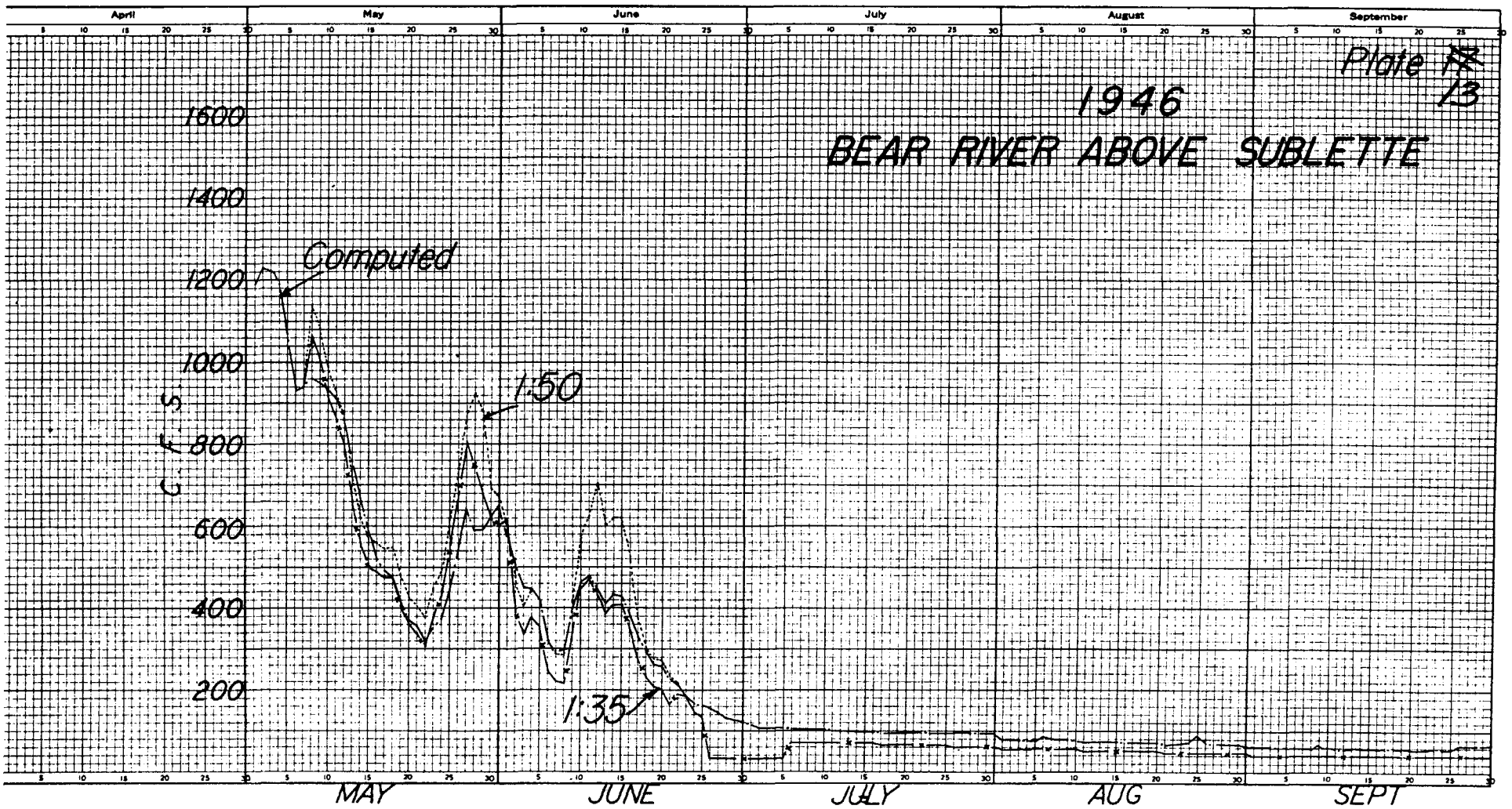
BEAR RIVER ABOVE SUBLETTE

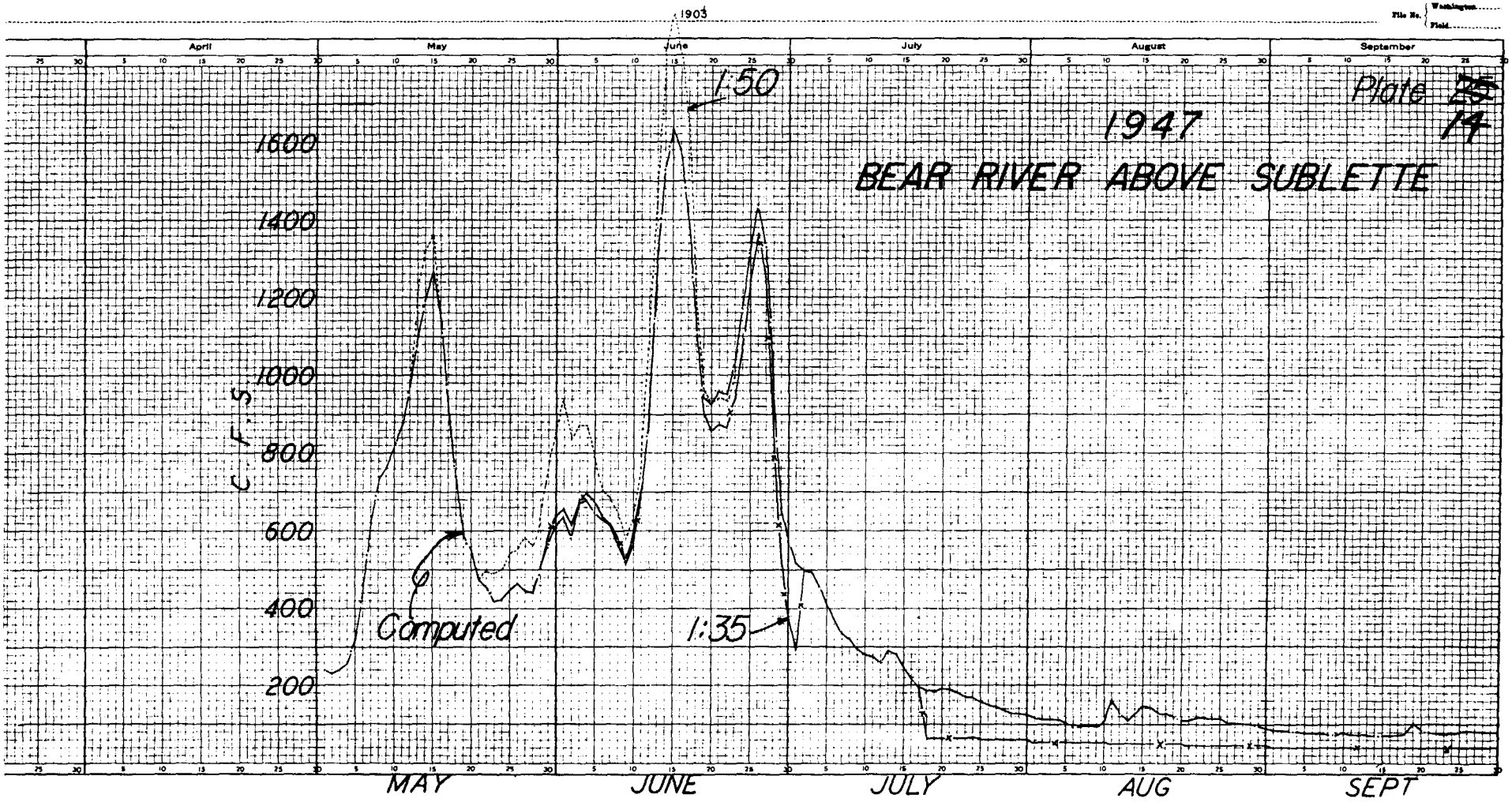


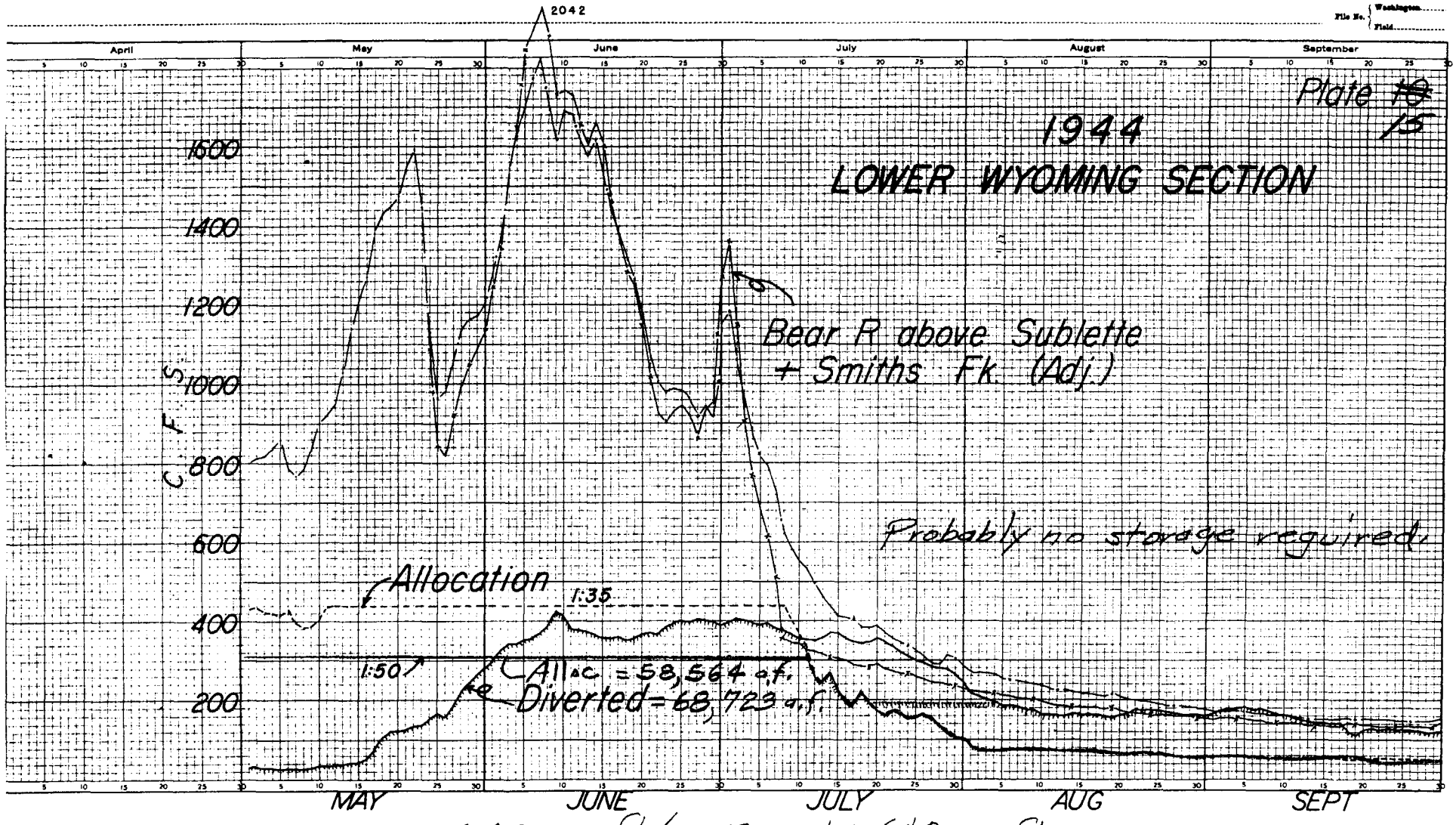
File No. { Washington
Field

Plate IX
13

1946
BEAR RIVER ABOVE SUBLETTE




1903
File No.
Washington
Field
April
May
June
July
August
September
Plate 25
14
1947
BEAR RIVER ABOVE SUBLETTE
1:50
1:35
Computed
1600
1400
1200
1000
800
600
400
200
C.F.S.
MAY
JUNE
JULY
AUG
SEPT

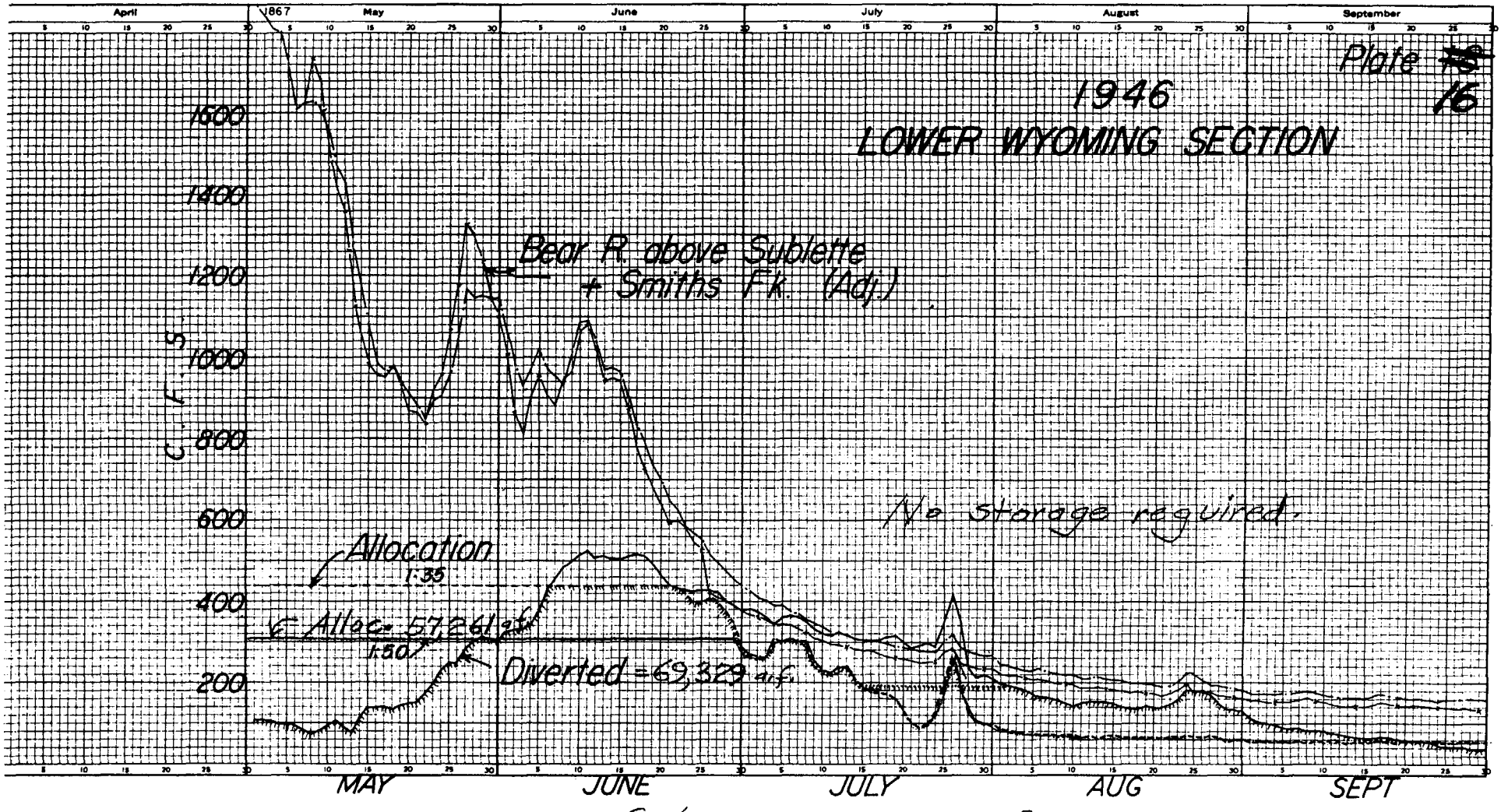


3.20 ac-ft/acre = 48,640 ac-ft.

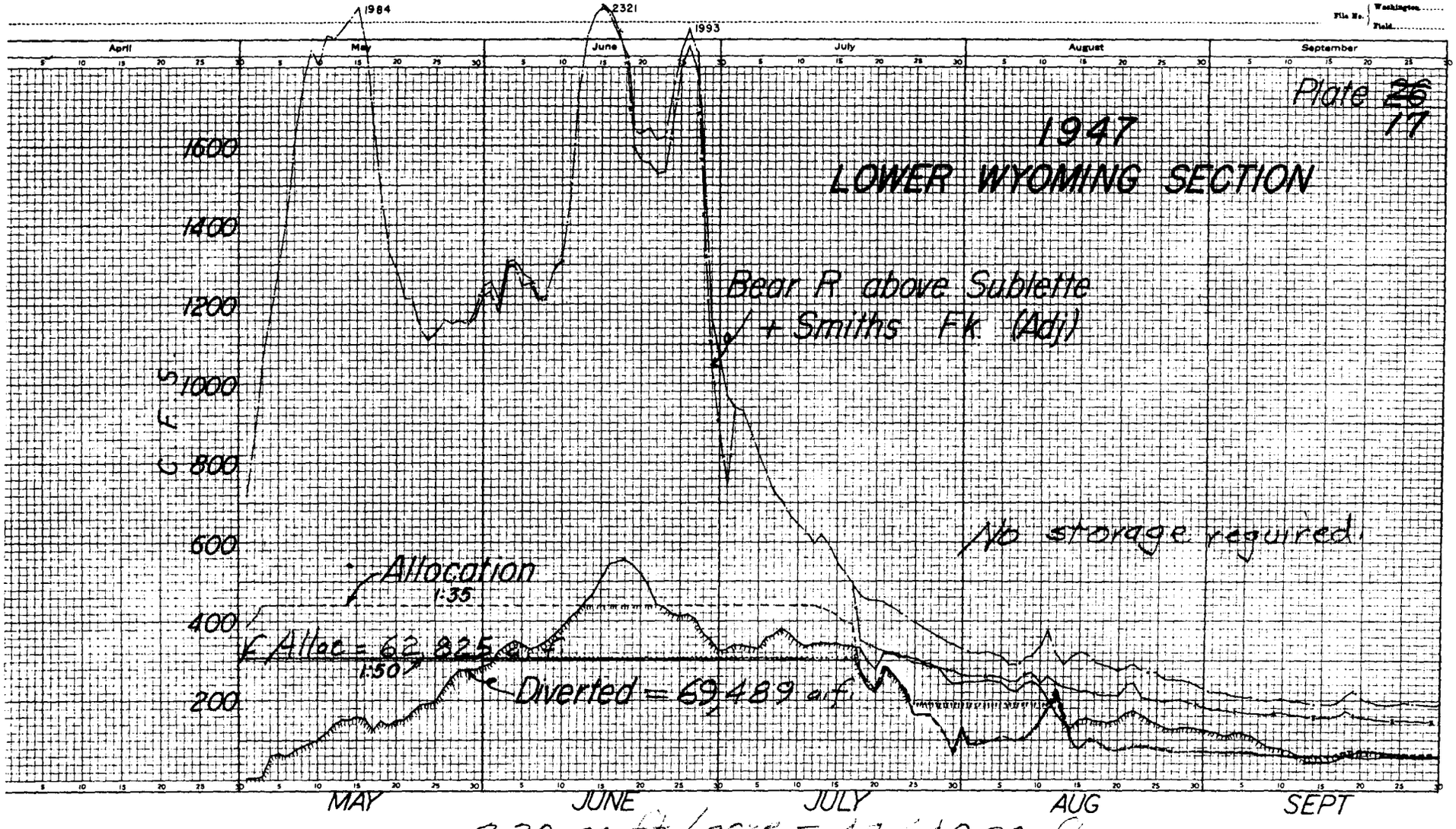
File No. { Washington / Field

Plate ~~15~~ 16

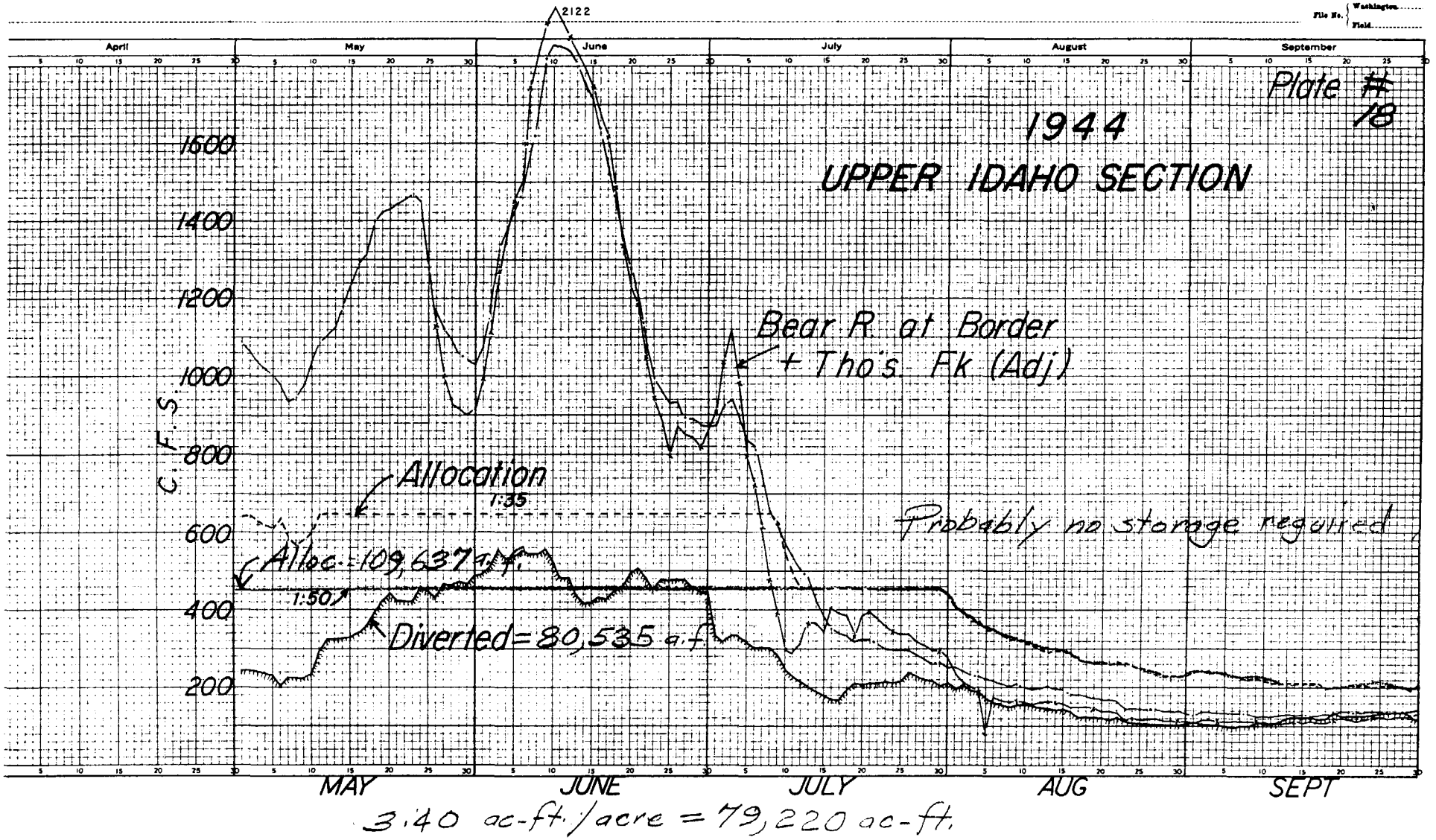
1946
LOWER WYOMING SECTION



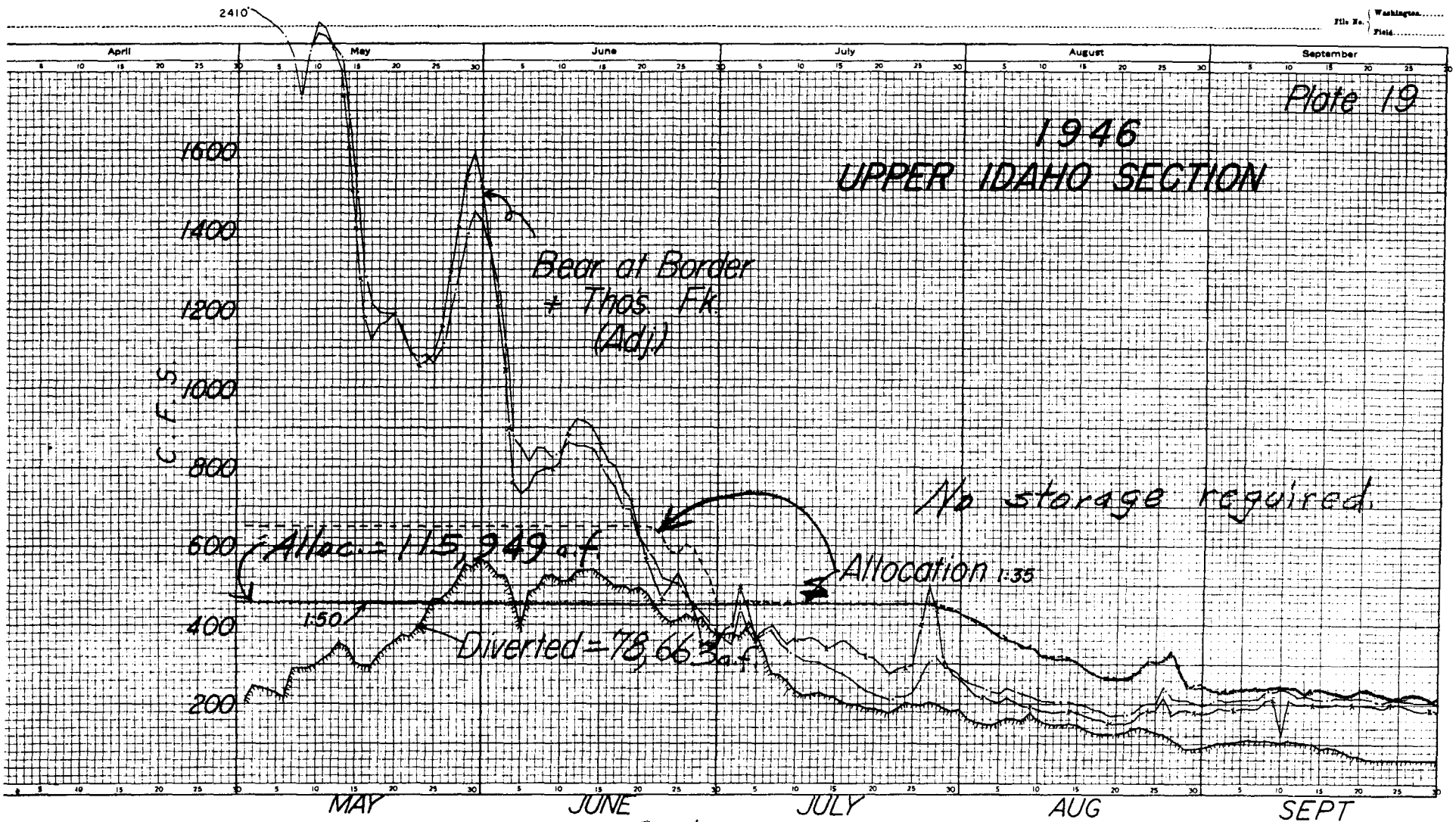
3.20 ac-ft./acre = 48,640 ac-ft.



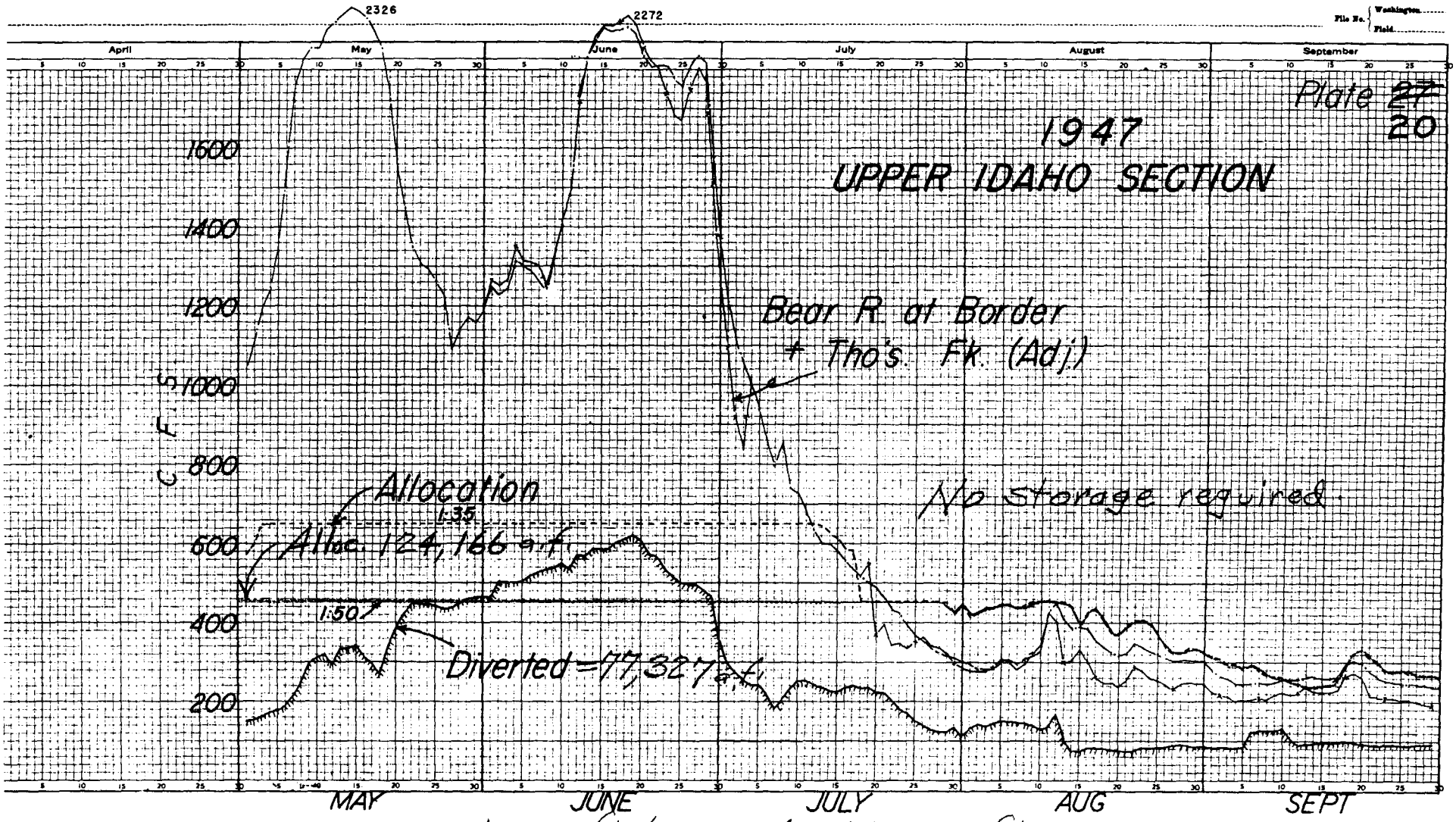
3.20 ac-ft/acre = 43,560 ac-ft.



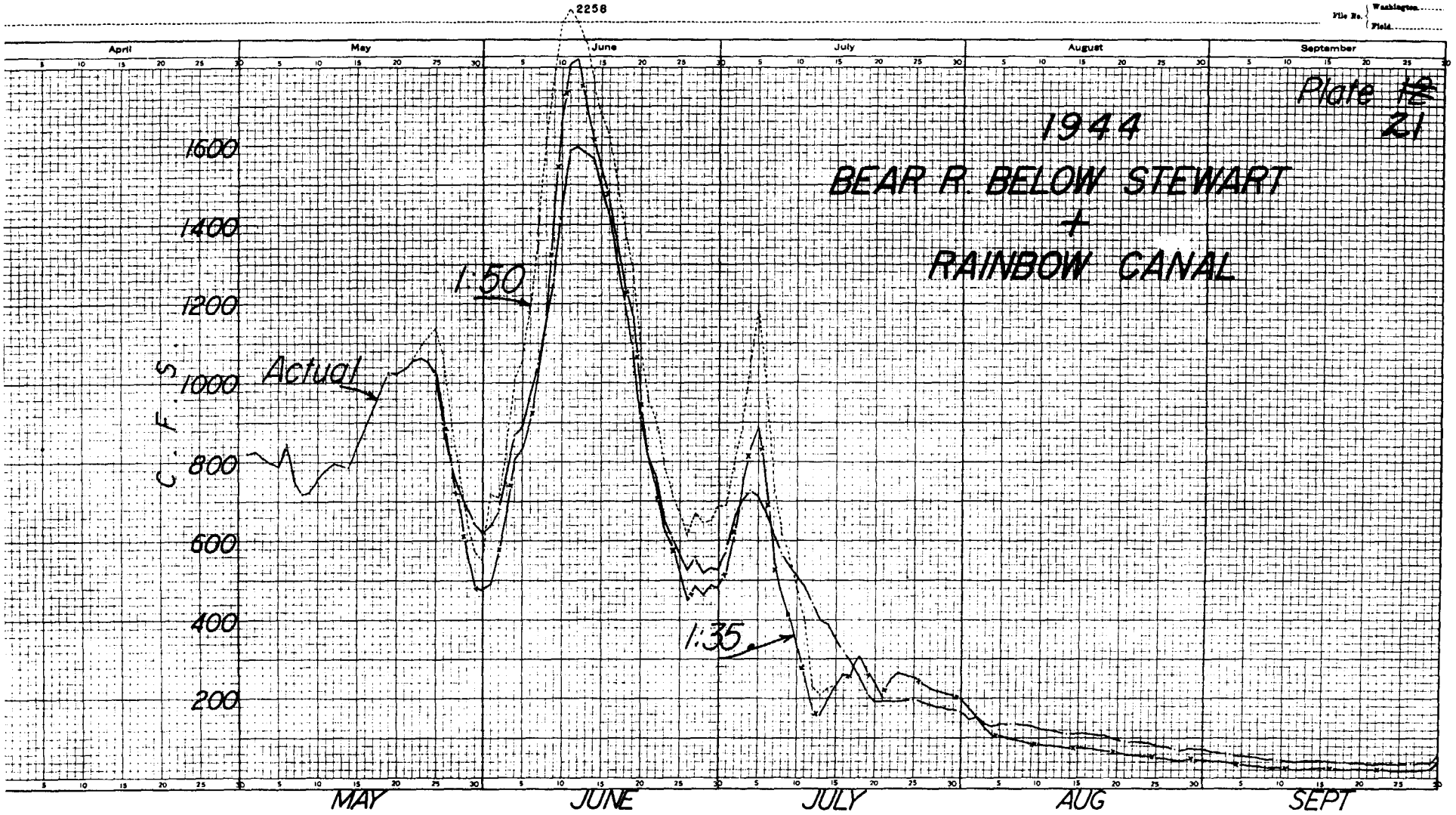
3.40 ac-ft./acre = 79,220 ac-ft.



3.40 ac-ft/acre = 79,220 ac-ft.

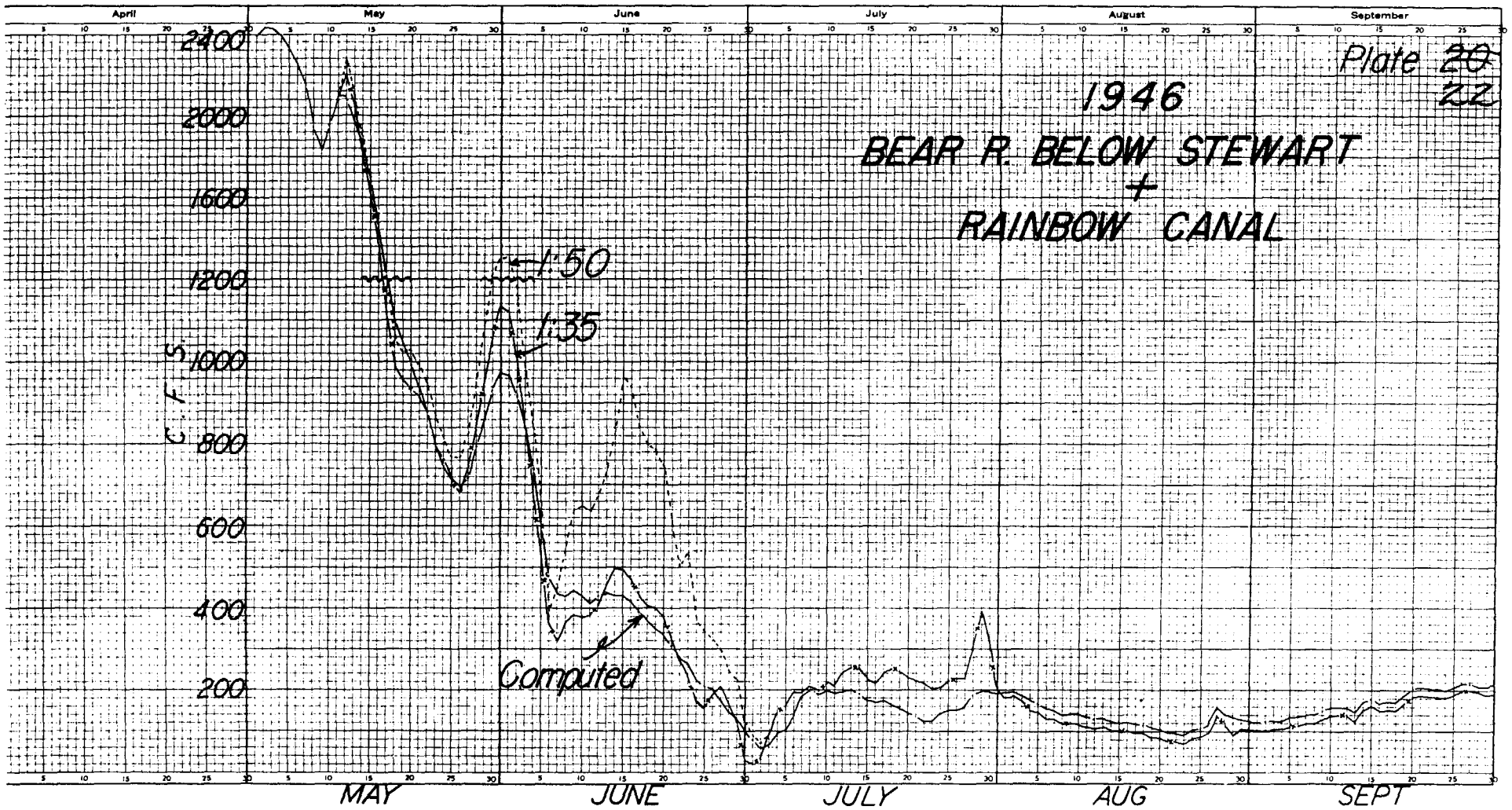


3.40 ac-ft/acre = 79,220 ac-ft.


2256
File No. Washington
Field
April
May
June
July
August
September
Plate 12
21
1944
BEAR R. BELOW STEWART
+
RAINBOW CANAL
1600
1400
1200
1000
800
600
400
200
C.F.S.
1:50
Actual
1:35
MAY
JUNE
JULY
AUG
SEPT

File No. { Washington / Field

Plate 20 22



File No. Washington
Field

Plate ~~26~~ 23