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DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR

WATER-SUPPLY PAPER 347

PROFILE SURVEYS  
IN  
SNAKE RIVER BASIN, IDAHO

PREPARED UNDER THE DIRECTION OF  
R. B. MARSHALL, CHIEF GEOGRAPHER



WASHINGTON  
GOVERNMENT PRINTING OFFICE

1914

Monograph





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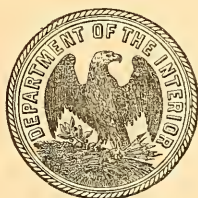
Snake River Basin, IDAHO

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- II. *A-L*, Plan and profile of Salmon River from Salmon to Riggins and Little Salmon River from Riggins to Meadows, Idaho. At end of volume.
- III. *A-F*, Plan and profile of Salmon River from Riggins to Snake River, Idaho..... At end of volume.



# PROFILE SURVEYS IN SNAKE RIVER BASIN, IDAHO.

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Prepared under the direction of R. B. MARSHALL, *Chief Geographer.*

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## GENERAL FEATURES OF SNAKE RIVER BASIN.

Snake River, the largest tributary of the Columbia, rises among the high peaks of the Rocky Mountains in Yellowstone National Park, heading in the divide from which streams flow northward and eastward into the Missouri, southward to the Colorado and the lakes of the Great Basin, and westward to the Columbia. From the head-water region, including Shoshone, Lewis, and Heart lakes, in Yellowstone National Park, the river flows southward, broadening into Jackson Lake (4 miles wide and 18 miles long) and passing through Jackson Valley (8 miles wide and 40 miles long), beyond which, near the Idaho-Wyoming line, it enters a long canyon. At the south edge of Madison County, Idaho, it receives Henrys Fork, below which the Snake flows southward and westward across Idaho to a point near Homedale, near the Oregon-Idaho line, where it turns abruptly northward and beyond which it forms for about 170 miles the boundary between Idaho and Oregon and for 30 miles more that between Idaho and Washington. It enters Washington at Lewiston, flows northwest, west, and southwest, and joins the Columbia near Pasco.

Practically all the important tributaries of Snake River flow from high mountains, which are heavily timbered. The most heavily timbered areas are those at the head of the river in the Yellowstone Park region, the upper areas of Teton and Fall rivers and Henrys Fork of Snake River in eastern Idaho, and those of upper Boise and Payette rivers in central Idaho.

Precipitation in the Snake River basin ranges from 6 or 8 inches in the valley to 50 inches at the head of many of the tributaries. In the higher altitudes the precipitation is practically all in the form of snow, but the snowfall in the lower valleys, below American Falls, Idaho, is comparatively light. During the last few years there has been considerable rainfall, and dry farming has been practiced successfully in the valleys in the vicinity of Idaho Falls, Blackfoot, and St. Anthony, Idaho. The temperature in these valleys ranges from 100° in the summer to 35° below zero in the winter; in the Twin Falls and Boise valleys the temperature ranges from approximately 110° in the summer to zero in the winter.

The driest year recorded in the drainage basin was 1905; the wet years were 1896, 1899, 1904, 1907, and 1909.

The Snake River basin has many feasible storage sites, but only a very few have been developed. About 400,000 acre-feet can be stored in Jackson Lake by a dam which has been constructed by the United States Reclamation Service. The largest site is at Swan Valley, on Snake River, and the water available for storage is approximately 4,000,000 acre-feet. Reservoir sites are also found on Henrys Fork of Snake River and on Fall, Teton, Boise, and Payette rivers. Many of these sites will no doubt be used at some future time by the United States Reclamation Service in connection with the Minidoka and Payette-Boise projects.

Irrigation has reached a high stage of development in the Snake River valley, yet approximately 6,000,000 acre-feet of water annually runs to waste. Eventually these flood waters will be stored and used to irrigate thousands of acres of arid land.

The streams afford enormous water powers, but only a few sites have been developed owing to the lack of market. Large power plants have been installed at Horseshoe Bend on the Payette, at the mouth of the canyon on the Boise, and on Snake River at American Falls, Shoshone Falls, Salmon Falls, and the Minidoka dam. Many other smaller plants are also in use.

The upper drainage basin of the Snake comprises the timbered mountainous country west and southwest of Yellowstone Lake. The east side of its valley is bounded by the Wind River Range, from the slopes of which it receives a large number of tributaries, and the west side by the high Teton Mountains. Most of the drainage from the Teton Mountains flows westward through Teton River into North Fork.

Below Henrys Fork the Snake receives many tributaries, the most important of which are listed below:

*Principal tributaries of Snake River.*

From the left (going downstream):

Willow Creek.  
Blackfoot River.  
Portneuf River.  
Raft River.  
Goose Creek.  
Rock Creek.  
Salmon Falls River.  
Bruneau River.  
Owyhee River.  
Malheur River.  
Alder Creek.  
Powder River.  
Imnaha River.  
Grande Ronde River.  
Tucannon River.

From the right (going downstream):

Big Wood River.  
Boise River.  
Payette River.  
Weiser River.  
Salmon River.  
Clearwater River.  
Palouse River.

The results of profile surveys in the Snake River basin are shown on Plates I-III (at end of volume).

## GAGING STATIONS.

The following list is arranged in downstream order, tributaries being indicated by indentation. A dash following a date indicates that the station was being maintained June 30, 1913. A period following a date indicates discontinuance.

## STATIONS ON SNAKE RIVER AND ITS TRIBUTARIES.

- Jackson Lake (on Snake River) near Moran, Wyo., 1908.
- Snake River at Yellowstone National Park boundary, Wyo., 1913-
- Snake River at Moran, Wyo., 1903-
- Snake River at Grovant, Wyo., 1899.
- Snake River near Lyon, Idaho, 1903-1911.
- Snake River near Heise, Idaho, 1910-
- Snake River at Idaho Falls, Idaho, 1889-1894.
- Snake River above mouth of Blackfoot River, Idaho, 1913.
- Snake River below mouth of Blackfoot River near Blackfoot, Idaho, 1910-
- Snake River at Neeley, 1906-
- Snake River below Minidoka dam, Idaho, 1910-
- Snake River near Minidoka, Idaho, 1895-1899, 1901-1910.
- Lake Milner at Milner, Idaho, 1911-
- Snake River at Milner, Idaho, 1909-
- Snake River near Twin Falls, Idaho, 1911-
- Snake River near Hagerman, Idaho, 1912-
- Snake River at King Hill, Idaho, 1909-
- Snake River at Crane Falls, Idaho, 1912-13.
- Snake River near Murphy, Idaho, 1912-
- Snake River at Weiser, Idaho, 1910-
- Snake River at Lewiston, Idaho, 1910-1913.
- Snake River at Burbank, Wash., 1907-
- Buffalo River near Elk, Wyo., 1906.
- Pacific Creek near Moran, Wyo., 1906.
- Snake River, Henrys Fork, near Warm River, Idaho, 1910-
- Snake River, Henrys Fork, near Ora, Idaho, 1902-1909.
- Snake River, Henrys Fork, at Ferry, Idaho, 1890.
- Snake River, Henrys Fork, near Rexburg, Idaho, 1909-
- Warm River near Warm River, Idaho, 1912-
- Robinson Creek near Warm River, Idaho, 1912-
- Fall River near Marysville, Idaho, 1902-3.
- Fall River at Fremont, Idaho, 1904-1909 (replaces the Marysville station).
- Fall River in canyon, Idaho, 1890-1901.
- Teton River near St. Anthony, Idaho, 1903-1909.
- Teton River at Chase's ranch, Idaho, 1890-1893.
- Willow Creek near Prospect, Idaho, 1903-4.
- Blackfoot River near Henry, Idaho, 1908-
- Blackfoot River near Presto, Idaho, 1903-1909.
- Blackfoot River near mouth, Idaho, 1913.
- Big Lost River near Chilly, Idaho, 1904-
- Big Lost River near Mackay, Idaho, 1903-1906; 1912-
- Sharp ditch near Mackay, Idaho, 1912-
- Streeter ditch near Mackay, Idaho, 1913-
- Thousand Springs Creek near Chilly, Idaho, 1912-
- Cedar Creek above forks near Mackay, Idaho, 1911-1913.



## Snake River—Continued.

## Big Lost River—Continued.

- Cedar Creek below forks near Mackay, Idaho, 1911-
- Little Lost River near Clyde, Idaho, 1910-1913.
  - Birch Creek near Kaufman, Idaho, 1910-1912.
  - Camas Creek near Hamer, Idaho, 1912-13.
- Portneuf River above reservoir, near Chesterfield, Idaho, 1912-
- Portneuf River below reservoir, near Chesterfield, Idaho, 1912-
- Portneuf River near Pebble, Idaho, 1910-1913.
- Portneuf River near Topaz, Idaho, 1913-
- Portneuf River near McCammon, Idaho, 1896.
- Portneuf River at Pocatello, Idaho, 1897-1899.
- Portneuf River near Pocatello, Idaho, 1911-
  - Topons Creek near Chesterfield, Idaho, 1912-
  - Pebble Creek near Pebble, Idaho, 1911-
  - Birch Creek near Downey, Idaho, 1911-
- Raft River near Bridge, Idaho, 1909-
  - Clear Creek near Naf, Idaho, 1910-11.
  - Cassia Creek near Conant, Idaho, 1909-1912.
- Goose Creek above Trapper Creek, near Oakley, Idaho, 1911-
- Goose Creek near Oakley, Idaho, 1909-1911.
  - Trapper Creek near Oakley, Idaho, 1911-
  - Birch Creek near Oakley, Idaho, 1912-
- Big Cottonwood Creek near Oakley, Idaho, 1909-
- Dry Creek near Artesian City, Idaho, 1912.
- Rock Creek at Rock Creek, Idaho, 1909-1913.
  - McMullen Creek near Rock Creek, Idaho, 1910 and 1912.
- Salmon Falls River near San Jacinto, Nev., 1909-
- Salmon Falls River near Twin Falls, Idaho, 1909-10.
  - Cedar Creek near Roseworth, Idaho, 1909-
  - Devil Creek near Three Creek, Idaho, 1912-
- Big Wood River near Gimlet, Idaho, 1904-5.
- Big Wood River near Hailey, Idaho, 1889.
- Big Wood River at Toponis, Idaho, 1896-1899.
- Big Wood River near Bellevue, Idaho, 1912-
- Big Wood River below Magic dam, near Richfield, Idaho, 1912-
- Big Wood River below North Gooding diversion, near Shoshone, Idaho, 1912-
- Big Wood River near Shoshone, Idaho, 1905-6; 1908-1913.
- Big Wood River near Bliss, Idaho, 1899.
  - Little Camas Creek at Little Camas Store, Idaho, 1896.
  - Camas Creek near Blaine, Idaho, 1912-
  - Little Wood River near Carey, Idaho, 1904-5.
  - Little Wood River at Toponis, Idaho, 1896-1899.
  - Little Wood River near Richfield, Idaho, 1912-
  - Dry Creek near Blanche, Idaho, 1911-
- King Hill Creek near King Hill, Idaho, 1913.
- Little Canyon Creek at Glenns Ferry, Idaho, 1909-1913.
- Alkali Creek near Glenns Ferry, Idaho, 1909-1913.
- Cold Spring Creek near Hammett (Medbury), Idaho, 1909-1913.
- Bennetts Creek near Hammett (Medbury), Idaho, 1909-1913.
- Bruneau River near Rowland, Nev., 1913-
- Bruneau River near Tindall, Idaho, 1910-
- Bruneau River near Hot Spring, Idaho, 1909-



## Snake River—Continued.

- Bruneau River near Grandview, Idaho, 1895-1903; 1909-  
   Sheep Creek near Tindall, Idaho, 1910-1913.
- Marys Creek at Tindall, Idaho, 1910-1912.
- Louse Creek near Wickahoney, Idaho, 1910-11.
- Bruneau River, East Fork, near Hot Spring, Idaho, 1910-  
   Big Flat Creek near Three Creek, Idaho, 1912-  
   Cherry Creek near Three Creek, Idaho, 1912-  
   Three Creek near Three Creek, Idaho, 1912-  
   Deadwood Creek near Three Creek, Idaho, 1912-
- Castle Creek near Castle Creek, Idaho, 1910-11.
- Succor Creek near Homedale, Idaho, 1903-1910.
- Owyhee River near Mountain City, Nev., 1913.
- Owyhee River at Owyhee, Oreg., 1890-1896; 1903-  
   Jordan Creek near Jordan Valley, Oreg., 1911-
- Boise River near Twin Springs, Idaho, 1911-
- Boise River at Dowlings ranch, near Arrorock (Highland), Idaho, 1911-
- Boise River near Highland, Idaho, 1905-
- Boise River near Boise, Idaho, 1894-1904.
- Boise River at Caldwell, Idaho, 1895-96.  
   Boise River, South Fork, near Prairie, Idaho, 1911-  
   Grimes River near Centerville, Idaho, 1909-10.  
   Spring Creek near Boise, Idaho, 1911-
- Malheur River, Middle Fork (head of Malheur River), above South Fork, at  
   Riverside, Oreg., 1906-1910.
- Malheur River, Middle Fork, below South Fork, at Riverside, Oreg., 1909-
- Malheur River near Harper's ranch, near Westfall, Oreg., 1903-1905.
- Malheur River at McLaughlin's bridge, near Vale, Oreg., 1904-1906.
- Malheur River at Froman's ranch, near Harper, Oreg., 1913-
- Malheur River at Vale, Oreg., 1890-91; 1895-96; 1903-
- Malheur River at Halliday's bridge, near Ontario, Oreg., 1904-5.
- Malheur River at highway bridge, near Ontario, Oreg., 1903-4.  
   Malheur River, South Fork, near Riverside, Oreg., 1910-  
   Malheur River, North Fork, near Beulah, Oreg., 1909-1912.  
   Bully Creek near Westfall, Oreg., 1911-1913.  
   Bully Creek at Vale, Oreg., 1904-6.
- Willow Creek near Malheur, Oreg., 1904-1906; 1911-
- Willow Creek at Dell, Oreg., 1904-1906.
- Willow Creek near Brogan, Oreg., 1910-1912.  
   Cow Creek near Malheur, Oreg., 1912-  
   Pole Creek near Brogan, Oreg., 1912-
- Payette River near Horseshoe Bend, Idaho, 1906-
- Payette River at Payette, Idaho, 1895-1897.  
   Payette, River, North Fork, at Lardo, Idaho, 1908-  
   Payette River, North Fork, near Van Wyck, Idaho, 1912-  
   Payette River, Lake Fork, near McCall, Idaho, 1909-  
   Shafer Creek near Horseshoe Bend, Idaho, 1911-1913.  
   Harris Creek near Horseshoe Bend, Idaho, 1911-12.  
   Lost Creek near Tamarack, Idaho, 1911-
- Weiser River, West Fork (head of Weiser River), near Fruitvale, Idaho, 1910-1912.
- Weiser River near Weiser, Idaho, 1890-91; 1894-1904; 1910-  
   Weiser River, Middle Fork, at Middle Fork, Idaho, 1910-1913.  
   Miller Creek near Midvale, Idaho, 1913.

## Snake River—Continued.

## Weiser River—Continued.

- Sage Creek near Midvale, Idaho, 1913.
- Sommercamp Creek near Midvale, Idaho, 1913.
- Crane Creek near Midvale, Idaho, 1910—
- Mann Creek near Weiser, Idaho, 1911—1913.
- Monroe Creek, upper station, near Weiser, Idaho, 1911—1913.
- Monroe Creek, lower station, near Weiser, Idaho, 1911—1913.
- Powder River at Salisbury, Oreg., 1903—1910.
- Powder River at Baker, Oreg., 1913.
- Baldock Slough (channel of Powder River) at Baker, Oreg., 1913.
- Old Settlers Slough (channel of Powder River) at Baker, Oreg., 1913.
- Powder River near North Powder, Oreg., 1909—1911, and 1913.
- Pine Creek near Baker, Oreg., 1913.
- Goodrich Creek, North Fork, near Baker, Oreg., 1913.
- Goodrich Creek near Baker, Oreg., 1913.
- Mill Creek near Baker, Oreg., 1913.
- Marble Creek near Baker, Oreg., 1913.
- Salmon Creek near Baker, Oreg., 1913.
- Willow Creek near Haines, Oreg., 1913.
- Rock Creek near Haines, Oreg., 1913.
- North Powder River at North Powder, Oreg., 1913.
- Wolf Creek near North Powder, Oreg., 1913.
- Big Creek near Medical Springs, Oreg., 1913.
- Goose Creek near Keating, Oreg., 1913.
- Eagle Creek near Baker City, Oreg., 1909—1911.
- Eagle Creek near Newbridge, Oreg., 1911—
- Eagle Creek, West Fork, near Baker, Oreg., 1911.
- Daly Creek near Richland, Oreg., 1913.
- Salmon River near Pierson, Idaho, 1910—1913.
- Salmon River at Salmon, Idaho, 1912—
- Salmon River at Whitebird, Idaho, 1910—
- Salmon River near Whitebird, Idaho, 1910—
- Lake Creek near Stanley, Idaho, 1910—1913.
- Valley Creek near Stanley, Idaho, 1910—1913.
- Pahsimeroi Creek near Goldburg, Idaho, 1910—1913.
- Goldburg Creek near Goldburg, Idaho, 1910 and 1913.
- Big Creek near Patterson, Idaho, 1910—1913.
- Lemhi River:
  - Timber Creek near Leadore, Idaho, 1912—13.
  - Timber Creek, West Fork, near Leadore, Idaho, 1912—13.
  - Eightmile Creek near Leadore, Idaho, 1912—13.
  - Salmon River, North Fork, near North Fork, Idaho, 1911—
- Grande Ronde River at Hilgard, Oreg., 1903—
- Grande Ronde River at Elgin, Oreg., 1903—1912.
- Grande Ronde River at Zindel, Wash., 1904—1912.
- Catherine Creek near Union, Oreg., 1906—7; 1911—1913.
- Wallowa Lake near Joseph, Oreg., 1905.
- Wallowa River near Joseph, Oreg., 1903—
- Wallowa River near Wallowa, Oreg., 1903—1907.
- Wallowa River near Minam, Oreg., 1903—
- Wallowa River, South Fork, near Lostine, Oreg., 1912—
- Minam River, Minam, Oreg., 1912—

**Snake River—Continued.**

- Clearwater River, Lochsa Fork (head of Clearwater River), at Lowell, Idaho, 1910-
- Clearwater River at Kamiah, Idaho, 1911-
- Clearwater River near Lewiston, Idaho, 1910-1913.
  - Clearwater River, Selwai Fork, near Lowell, Idaho, 1911-
  - Clearwater River, South Fork, near Grangeville, Idaho, 1910-
  - Clearwater River, South Fork, at Kooskia, Idaho, 1910-1912.
  - Lolo Creek near Greer, Idaho, 1911-12.
- Asotin Creek at Shelman's ranch, near Asotin, Wash., 1904-1906.
- Asotin Creek near Asotin, Wash., 1904-5.
- Palouse River at Elberton, Wash., 1904-5.
- Palouse River at Hooper, Wash., 1897-
  - Rock Creek near St. John, Wash., 1903-1905.
  - Cow Creek near Keystone, Wash., 1904-5.
  - Cow Creek at Hooper, Wash., 1904.

**CANALS IN SNAKE RIVER BASIN.****UPPER SNAKE RIVER BASIN.**

- North Side Minidoka canal near Minidoka, Idaho, 1909-
- South Side Minidoka canal near Minidoka, Idaho, 1909-
- North Side Twin Falls canal near Milner, Idaho, 1909-
- South Side Twin Falls canal near Milner, Idaho, 1909-
- Fort Hall upper canal near Blackfoot, Idaho, 1912-
- Fort Hall lower canal near Blackfoot, Idaho, 1912-
- Sharp ditch near Mackay, Idaho, 1912-
- Streeter ditch near Mackay, Idaho, 1913-
- Buckaroo ditch near Hot Spring, Idaho, 1912-
- Grandview canal near Comet, Idaho, 1912-
- Wilson ditch near Ontario, Oreg., 1904-5.

**OWYHEE RIVER BASIN.**

- Owyhee ditch near Owyhee, Oreg., 1904-5; 1911-

**MALHEUR RIVER BASIN.**

- Vines ditch above Vale, Oreg., 1904-5.
- Malheur Farmers' canal above Vale, Oreg., 1904-5.
- McLaughlin ditch above Vale, Oreg., 1904-5.
- J. H. ditch above Vale, Oreg., 1904-5.
- Gellerman & Frohman ditch above Vale, Oreg., 1904-5.
- Sand Hollow ditch above Vale, Oreg., 1904-5.
- Hope Mill ditch at Vale, Oreg., 1905.
- Nevada ditch below Vale, Oreg., 1904-5.

**ON WALLOWA RIVER IN GRANDE RONDE BASIN.**

- Silver Lake ditch near Joseph, Oreg., 1905.
- Farmers & Citizens ditch near Joseph, Oreg., 1905.
- Granger ditch at Joseph, Oreg., 1905.
- Big Bend ditch at Joseph, Oreg., 1905.
- Company ditch near Wallowa, Oreg., 1905.

## PUBLICATIONS.

Information concerning stream flow at the stations indicated by the preceding table has been published in the reports of the Geological Survey listed below:

*Annual Reports.*—Sixteenth, Part II; Eighteenth, Part IV; Nineteenth, Part IV; Twentieth, Part IV; Twenty-first, Part IV; Twenty-second, Part IV.

*Bulletins.*—131, 140.

*Water-Supply Papers.*—11, 16, 28, 38, 51, 66, 75, 85, 100, 135, 178, 214, 252, 272, 292, 312.

Water-supply papers and other publications of the United States Geological Survey containing data in regard to the water resources of the United States may be obtained or consulted as indicated below.

1. Copies may be obtained free of charge by applying to the Director of the Geological Survey, Washington, D. C., but the edition printed for free distribution is small and is soon exhausted.

2. Copies may be purchased at nominal cost from the Superintendent of Documents, Government Printing Office, Washington, D. C., who will on application furnish lists giving prices.

3. Sets of the reports may be consulted in the libraries of the principal cities in the United States.

4. Complete sets are available for consultation in the local offices of the water-resources branch of the Geological Survey, as follows:

- Albany, N. Y., Room 18, Federal Building.
- Atlanta, Ga., Post Office Building.
- St. Paul, Minn., Old Capitol Building.
- Madison, Wis., Capitol Building.
- Helena, Mont., Montana National Bank Building.
- Denver, Colo., 302 Chamber of Commerce Building.
- Salt Lake City, Utah, Federal Building.
- Boise, Idaho, 615 Idaho Building.
- Portland, Oreg., 416 Couch Building.
- Tacoma, Wash., Federal Building.
- San Francisco, Cal., 505 Customhouse.
- Los Angeles, Cal., Federal Building.
- Santa Fe, N. Mex., Capitol Building.
- Honolulu, Hawaii, Kapiolani Building.

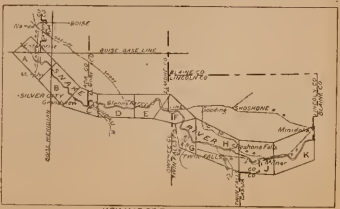
A list of the Geological Survey's publications will be sent on application to the Director of the United States Geological Survey, Washington, D. C.









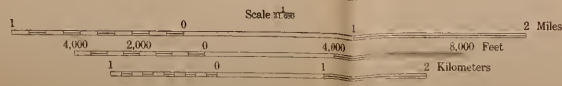


KEY MAP OF PLAN SHEETS

DIAGRAM OF TOWERS

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651	652	653	654
655	656	657	658
659	660	661	662
663	664	665	666
667	668	669	670
671	672	673	674
675	676	677	678
679	680	681	682
683	684	685	686
687	688	689	690
691	692	693	694
695	696	697	698
699	700	701	702
703	704	705	706
707	708	709	710
711	712	713	714
715	716	717	718
719	720	721	722
723	724	725	726
727	728	729	730
731	732	733	734
735	736	737	738
739	740	741	742
743	744	745	746
747	748	749	750
751	752	753	754
755	756	757	758
759	760	761	762
763	764	765	766
767	768	769	770
771	772	773	774
775	776	777	778
779	780	781	782
783	784	785	786
787	788	789	790
791	792	793	794
795	796	797	798
799	800	801	802
803	804	805	806
807	808	809	810
811	812	813	814
815	816	817	818
819	820	821	822
823	824	825	826
827	828	829	830
831	832	833	834
835	836	837	838
839	840	841	842
843	844	845	846
847	848	849	850
851	852	853	854
855	856	857	858
859	860	861	862
863	864	865	866
867	868	869	870
871	872	873	874
875	876	877	878
879	880	881	882
883	884	885	886
887	888	889	890
891	892	893	894
895	896	897	898
899	900	901	902
903	904	905	906
907	908	909	910
911	912	913	914
915	916	917	918
919	920	921	922
923	924	925	926
927	928	929	930
931	932	933	934
935	936	937	938
939	940	941	942
943	944	945	946
947	948	949	950
951	952	953	954
955	956	957	958
959	960	961	962
963	964	965	966
967	968	969	970
971	972	973	974
975	976	977	978
979	980	981	982
983	984	985	986
987	988	989	990
991	992	993	994
995	996	997	998
999	1000	1001	1002

R. B. Marshall, Chief Geographer  
 T. G. Gardine, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level  
 1914

10°  
 TRUE NORTH  
 MAGNETIC NORTH  
 APPROXIMATE MEAN DECLINATION 1912

Subject to adjustment 19 SHEETS (10 plans, 9 profiles)







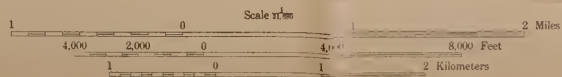


PLAN AND PROFILE OF  
 SNAKE RIVER.  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO

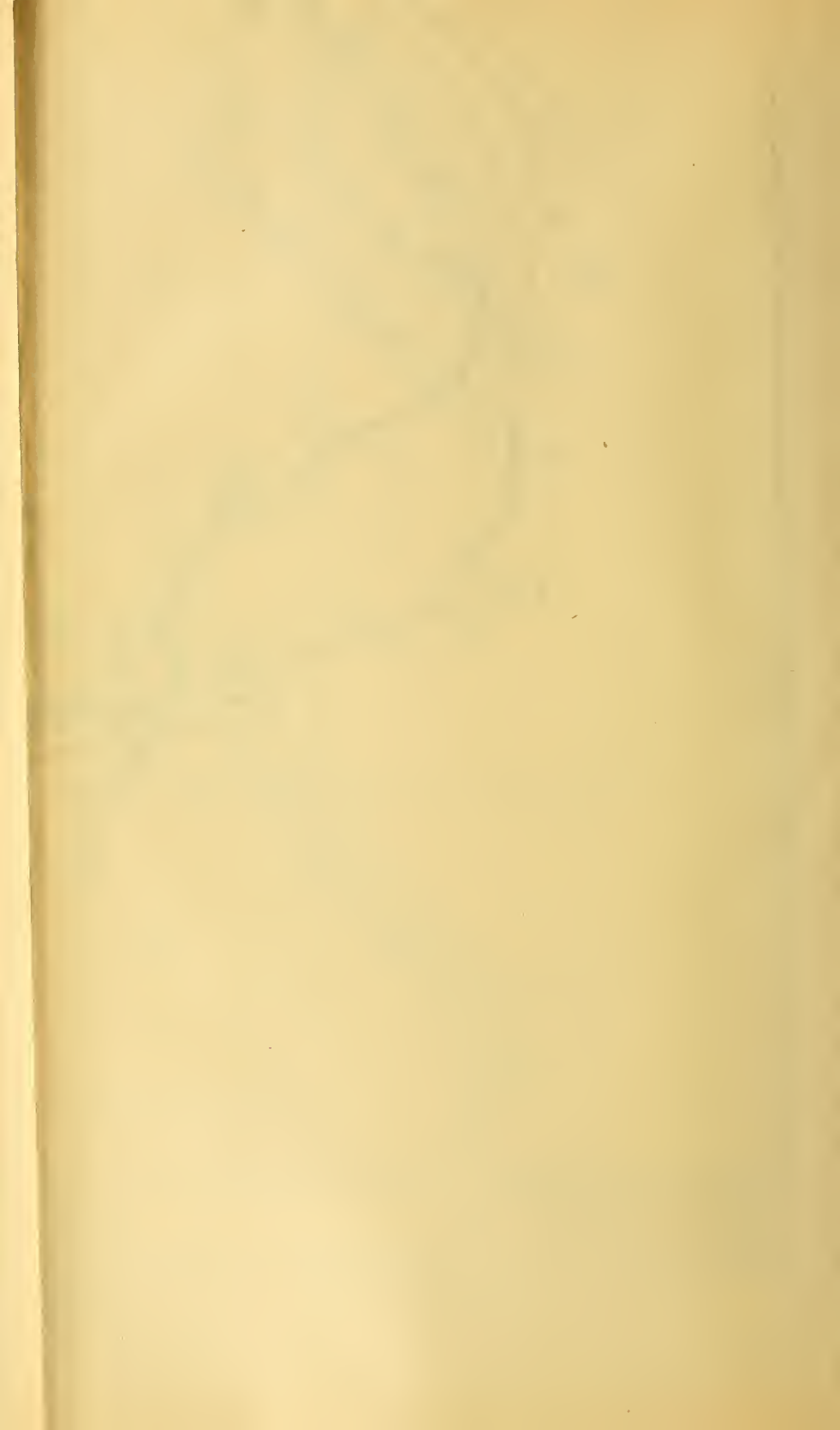


R. B. Marshall, Chief Geographer  
 T. G. Gerdine, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1917  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

CORNER	TOWNSHIP
1	25 N. 37 E.
2	25 N. 37 E.
3	25 N. 37 E.
4	25 N. 37 E.
5	25 N. 37 E.
6	25 N. 37 E.
7	25 N. 37 E.
8	25 N. 37 E.
9	25 N. 37 E.
10	25 N. 37 E.
11	25 N. 37 E.
12	25 N. 37 E.
13	25 N. 37 E.
14	25 N. 37 E.
15	25 N. 37 E.
16	25 N. 37 E.
17	25 N. 37 E.
18	25 N. 37 E.
19	25 N. 37 E.
20	25 N. 37 E.
21	25 N. 37 E.
22	25 N. 37 E.
23	25 N. 37 E.
24	25 N. 37 E.
25	25 N. 37 E.
26	25 N. 37 E.
27	25 N. 37 E.
28	25 N. 37 E.
29	25 N. 37 E.
30	25 N. 37 E.
31	25 N. 37 E.
32	25 N. 37 E.
33	25 N. 37 E.
34	25 N. 37 E.
35	25 N. 37 E.
36	25 N. 37 E.
37	25 N. 37 E.
38	25 N. 37 E.
39	25 N. 37 E.
40	25 N. 37 E.
41	25 N. 37 E.
42	25 N. 37 E.
43	25 N. 37 E.
44	25 N. 37 E.



Contour interval on land 25 feet.  
 Contour interval on river surface 1 foot.  
 Datum of mean sea level.







PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO



R. B. Marshall, Chief Geographer  
 T. G. Gardine, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1917  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

DIAGRAM OF TYPICAL SECTION

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36



Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level

18°  
 TRUE NORTH  
 MAGNETIC NORTH  
 APPROXIMATE MEAN  
 DECLINATION 1912

Subject to adjustment

19 SHEETS  
 (10 plans, 9 profiles)

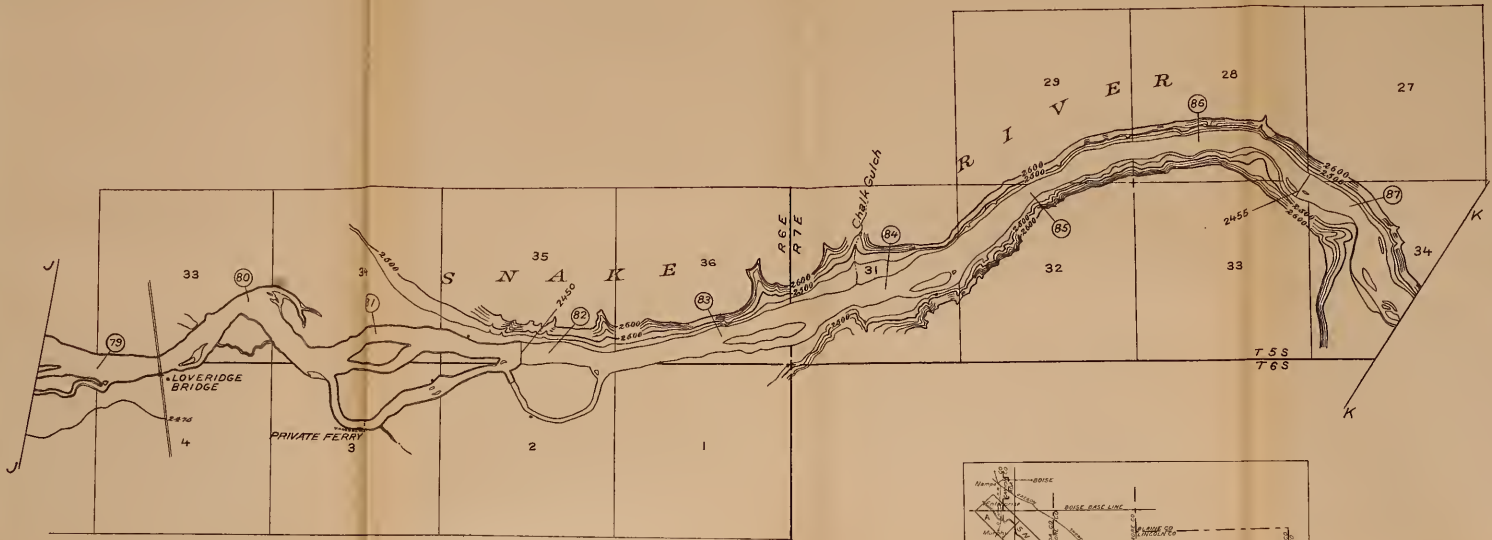




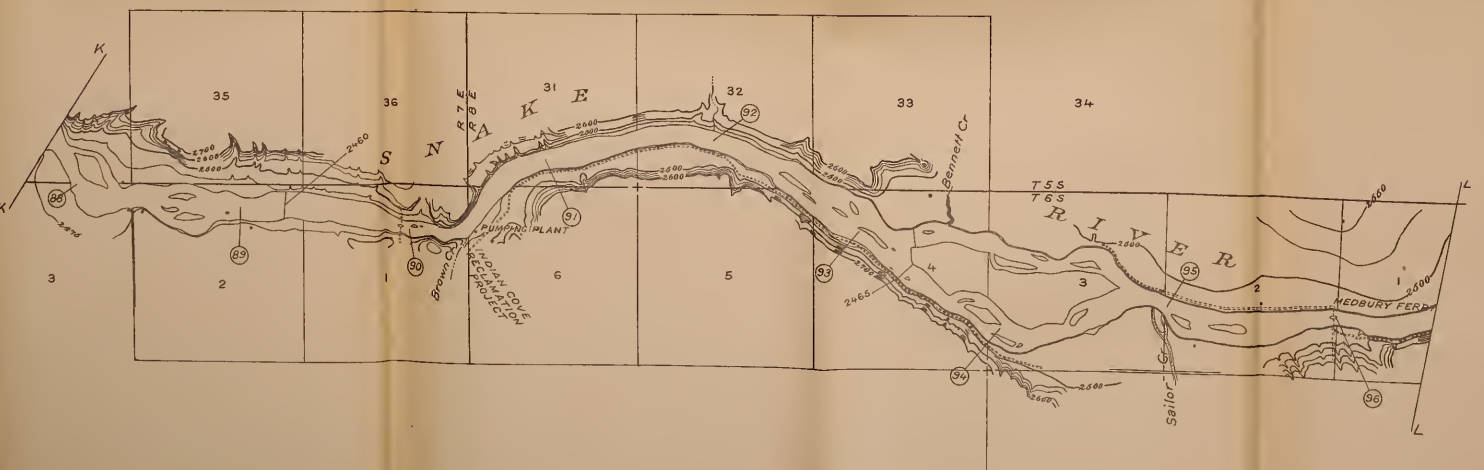




PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINDOKA, IDAHO



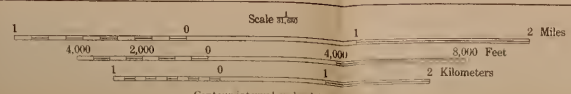
KEY MAP OF PLAN SHEETS



R. B. Marshall, Chief Geographer  
 T. G. Gerding, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1917  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

DIAGRAM OF ELEVATION

16 5	3 1
17 0	2 11 12
18 17	18 14 15
19 20	19 21 22
20 25	20 23 24
21 27	21 25 26



Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level  
 1914

TRUE NORTH  
 MAGNETIC NORTH  
 APPROXIMATE MEAN  
 DECLINATION 112

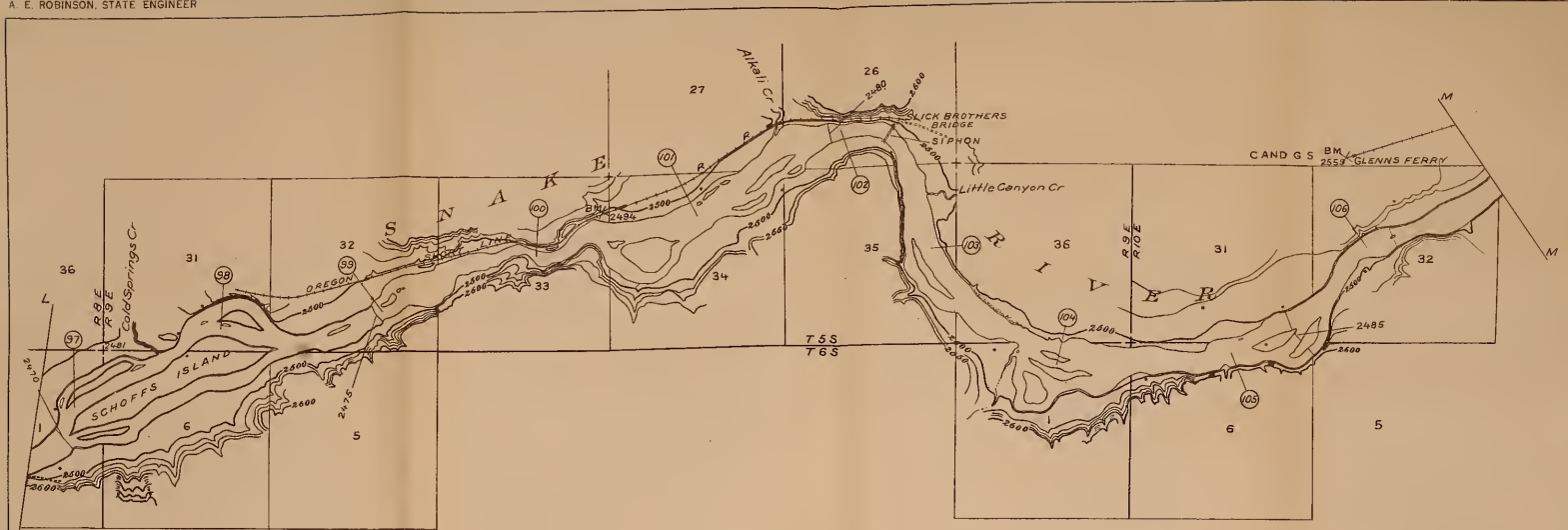
Subject to adjustment  
 19 SHEETS  
 (10 plans, 9 profiles)







PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO

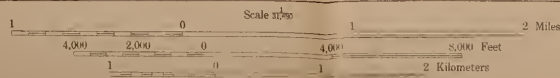


KEY MAP OF PLAN SHEETS



R. B. Marshall, Chief Geographer  
 T. G. Geidne, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

SECTION	DATE
6	5 4 2 17
7	8 9 1 21
8	7 16 15 27
19	20 2 24
20	24 20 29
21	20 2 24



Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum of mean sea level

Subject to adjustment  
 15 SHEETS  
 (1) Super. & Index

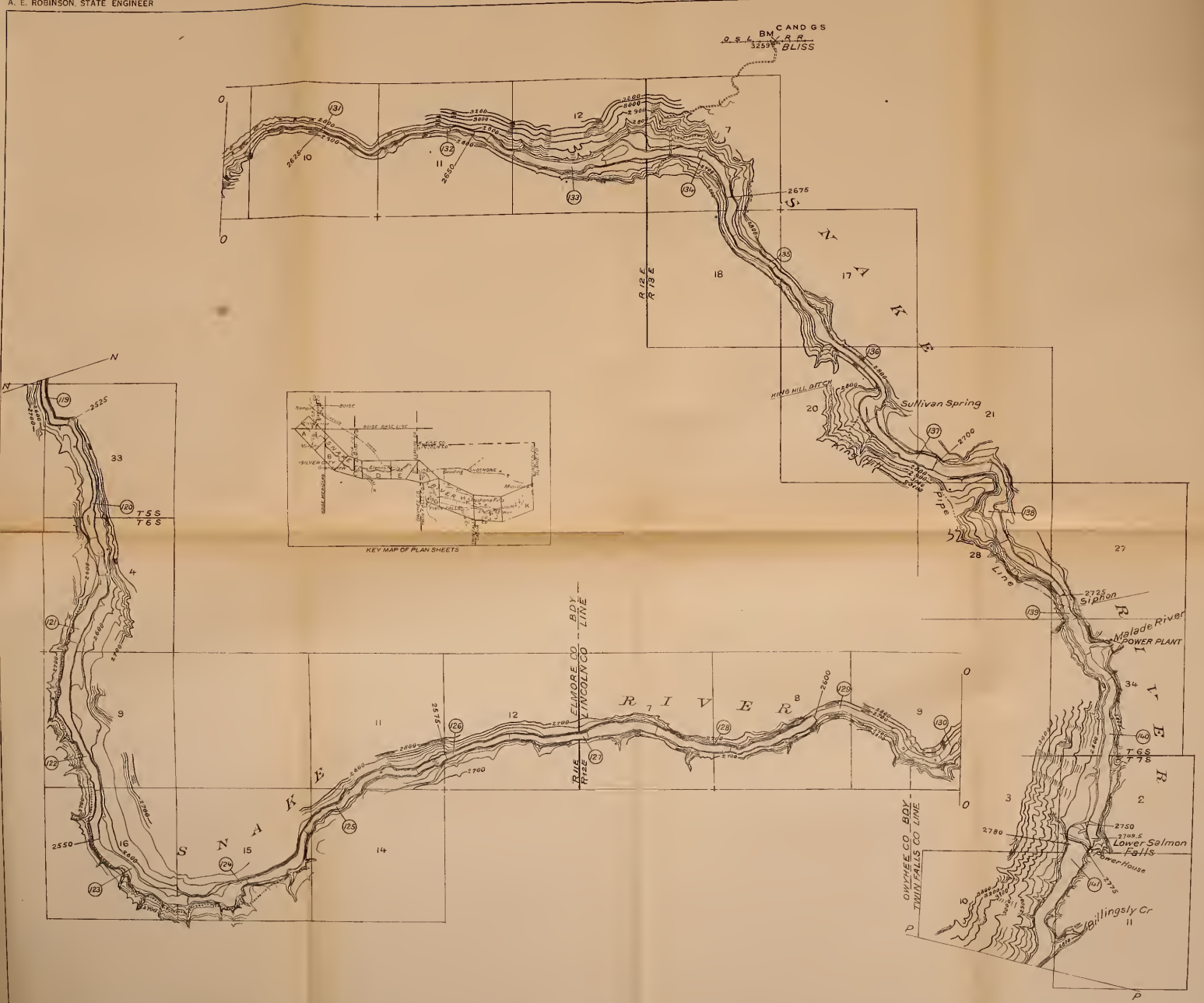








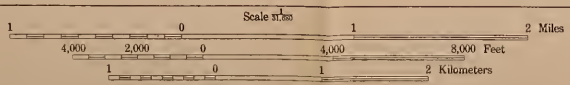
PLAN AND PROFILE OF  
 SNAKE RIVER.  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO



R. B. Marshall, Chief Geographer  
 T. G. Gerding, Geographer in charge  
 Topography by A. T. Fowler and A. J. Ogle  
 Surveyed in 1917  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	6	5	4	3	2
8	7	6	5	4	3
9	8	7	6	5	4
10	9	8	7	6	5
11	10	9	8	7	6
12	11	10	9	8	7
13	12	11	10	9	8
14	13	12	11	10	9
15	14	13	12	11	10
16	15	14	13	12	11
17	16	15	14	13	12
18	17	16	15	14	13
19	18	17	16	15	14
20	19	18	17	16	15
21	20	19	18	17	16
22	21	20	19	18	17
23	22	21	20	19	18
24	23	22	21	20	19
25	24	23	22	21	20
26	25	24	23	22	21
27	26	25	24	23	22
28	27	26	25	24	23
29	28	27	26	25	24
30	29	28	27	26	25
31	30	29	28	27	26
32	31	30	29	28	27
33	32	31	30	29	28
34	33	32	31	30	29
35	34	33	32	31	30
36	35	34	33	32	31
37	36	35	34	33	32



Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level

18°  
 TRUE NORTH  
 MAGNETIC NORTH  
 APPROXIMATE MEAN  
 DECLINATION 1912

Subject to adjustment 19 SHEETS  
 (10 plans, 9 profiles)





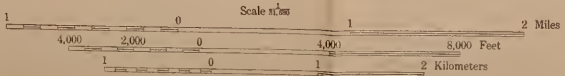




R. B. Marshall, Chief Geographer  
 T. G. Gardine, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

DIAGRAM OF TOWNSHIP

4	5	6	7
1	8	9	10
2	11	12	13
3	14	15	16
4	17	18	19
5	20	21	22
6	23	24	25
7	26	27	28
8	29	30	31
9	32	33	34
10	35	36	37
11	38	39	40



Vertical scale 1 inch = 40 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level  
 1914

18°  
 TRUE NORTH  
 MAGNETIC NORTH  
 DIFFERENCE IN 1912

Subject to adjustment  
 19 SHEETS  
 (10 plans, 9 profiles)

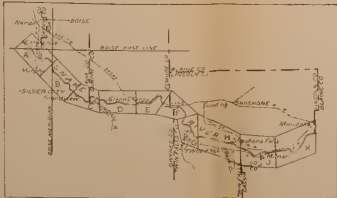








PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINDOKA, IDAHO



R. B. Marshall, Chief Geographer  
 J. G. Gardine, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF OREGON

DIAGRAM OF TOW SHEET

18	19	20	21
7	8	9	10
11	12	13	14
15	16	17	18
19	20	21	22
23	24	25	26
27	28	29	30
31	32	33	34



18° 12' N  
 MAGNETIC INCLIN.

Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level

APPROXIMATE MEAN  
 MAGNETIC INCLINATION

Subject to adjustment  
 19 SHEETS  
 (10 plans, 9 profiles)





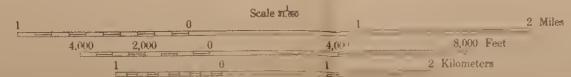




R. B. Marshall, Chief Geographer  
 T. S. Gedina, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

DIAGRAM OF TOWN, SHEET

6 5 0	1
7 0 0	2
8 0 0	3
9 0 0	4
10 0 0	5
11 0 0	6
12 0 0	7
13 0 0	8
14 0 0	9
15 0 0	10
16 0 0	11
17 0 0	12
18 0 0	13
19 0 0	14
20 0 0	15
21 0 0	16
22 0 0	17
23 0 0	18
24 0 0	19
25 0 0	20
26 0 0	21
27 0 0	22
28 0 0	23
29 0 0	24
30 0 0	25
31 0 0	26
32 0 0	27
33 0 0	28
34 0 0	29
35 0 0	30
36 0 0	31
37 0 0	32
38 0 0	33
39 0 0	34
40 0 0	35
41 0 0	36
42 0 0	37
43 0 0	38
44 0 0	39
45 0 0	40
46 0 0	41
47 0 0	42
48 0 0	43
49 0 0	44
50 0 0	45



Contour interval on land 25 feet  
 Contour interval on river surfaces 5 feet  
 DISTANCE IN MILES AND FEET  
 1914

Subject to adjustment 19 SHEETS (11 plans, 9 profiles)







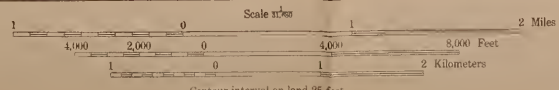




R. B. Marshall, Chief Geographer  
 T. C. Geidno, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1911  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

DIAGRAM OF TOWNSHIP

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40



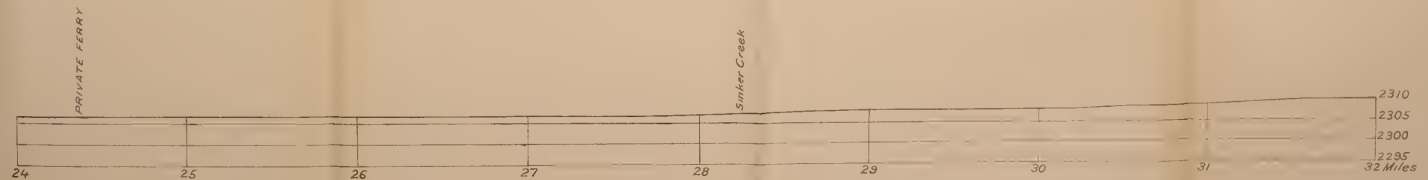
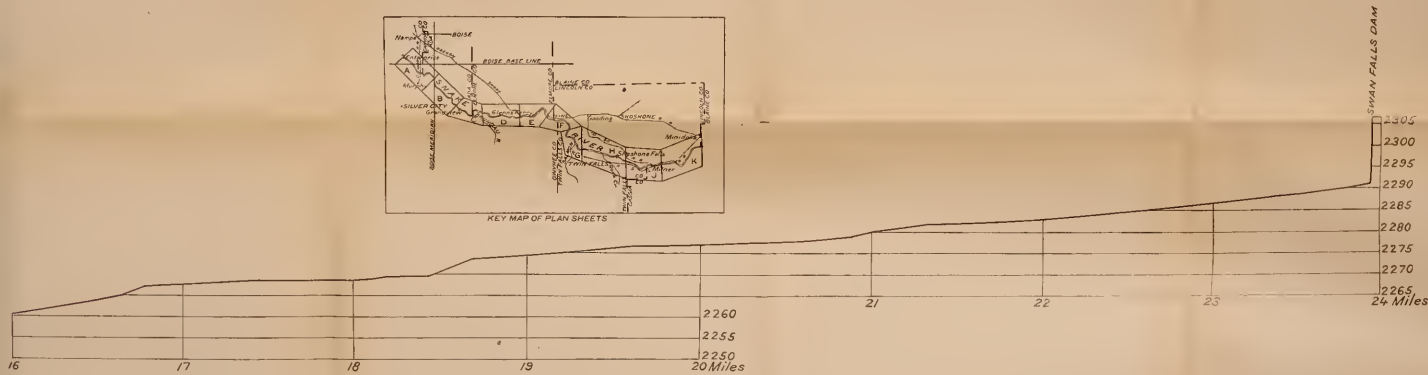
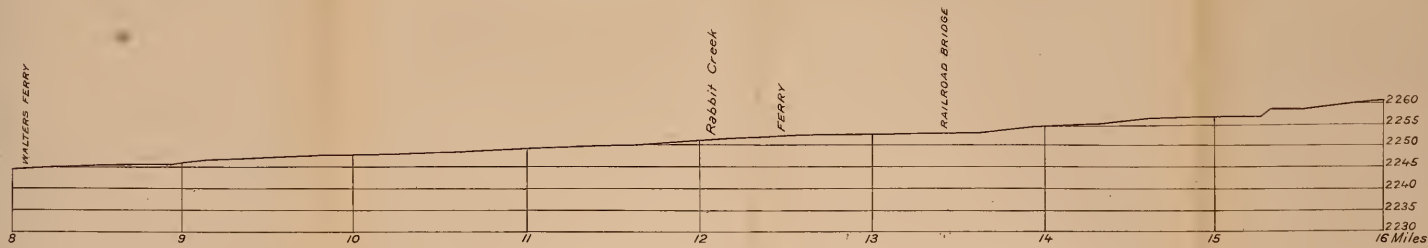
Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is mean sea level  
 1914

Survey in Idaho in 1911  
 10 SHEETS  
 (10 plans, 9 profiles)

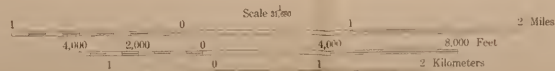








R. B. Marshall, Chief Geographer  
 T. G. Gerdine, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1911  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Vertical scale 1 inch = 20 feet  
 Datum is mean sea level  
 1914

Subject to adjustment

11 HE 11  
 (1) - 9 (11)





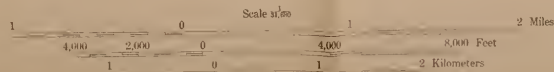




PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO



R. B. Marshall, Chief Geographer  
 T. G. Grinnon, Geographer in charge  
 Topography by A. J. Ogile  
 Surveyed in 1914



Vertical scale 1 inch = 20 feet  
 Datum as shown on level  
 1914

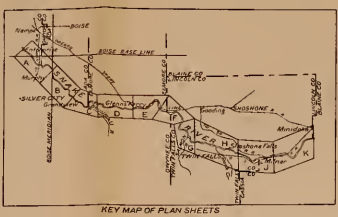
Subject to adjustment

11 SHEETS  
 (1 of 10 = 0 miles)

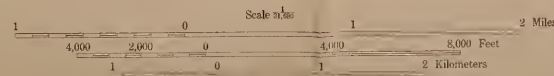








R. B. Marshall, Chief Geographer  
 T. G. Gerdine, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1914  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Vertical scale 1 inch = 20 feet  
 Datum is mean sea level  
 1914

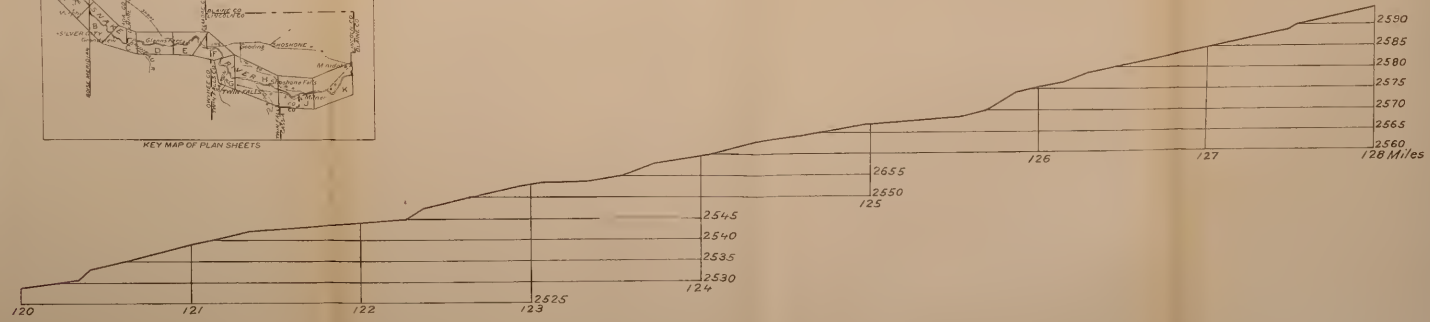
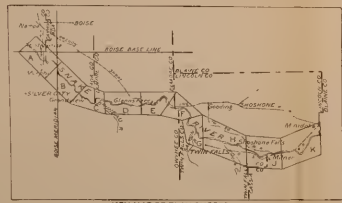
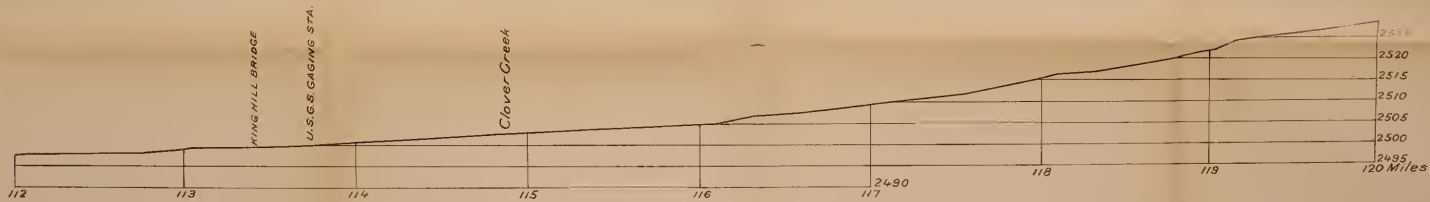
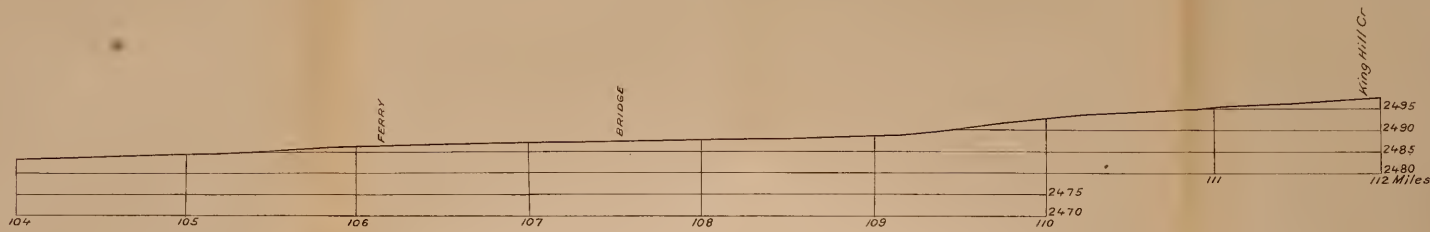
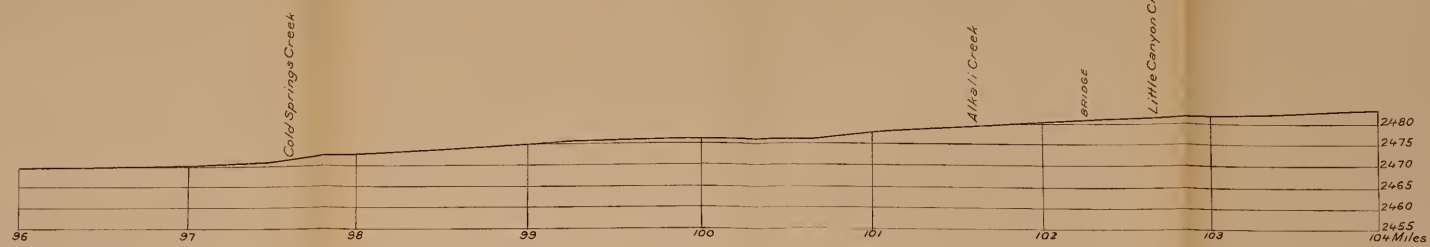
Subject to adjustment 19 SHEETS (10 plans, 9 profiles)



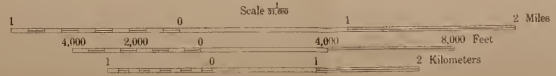








R. B. Marshall, Chief Geographer  
 I. G. Gardine, Geographer in charge  
 Topography by A. J. Ogle  
 Surveyed in 1911  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Vertical scale 1 inch = 20 feet  
 Datum is mean sea level  
 1913

Subject to adjustment  
 19 SHEETS  
 (10 plans, 9 profiles)

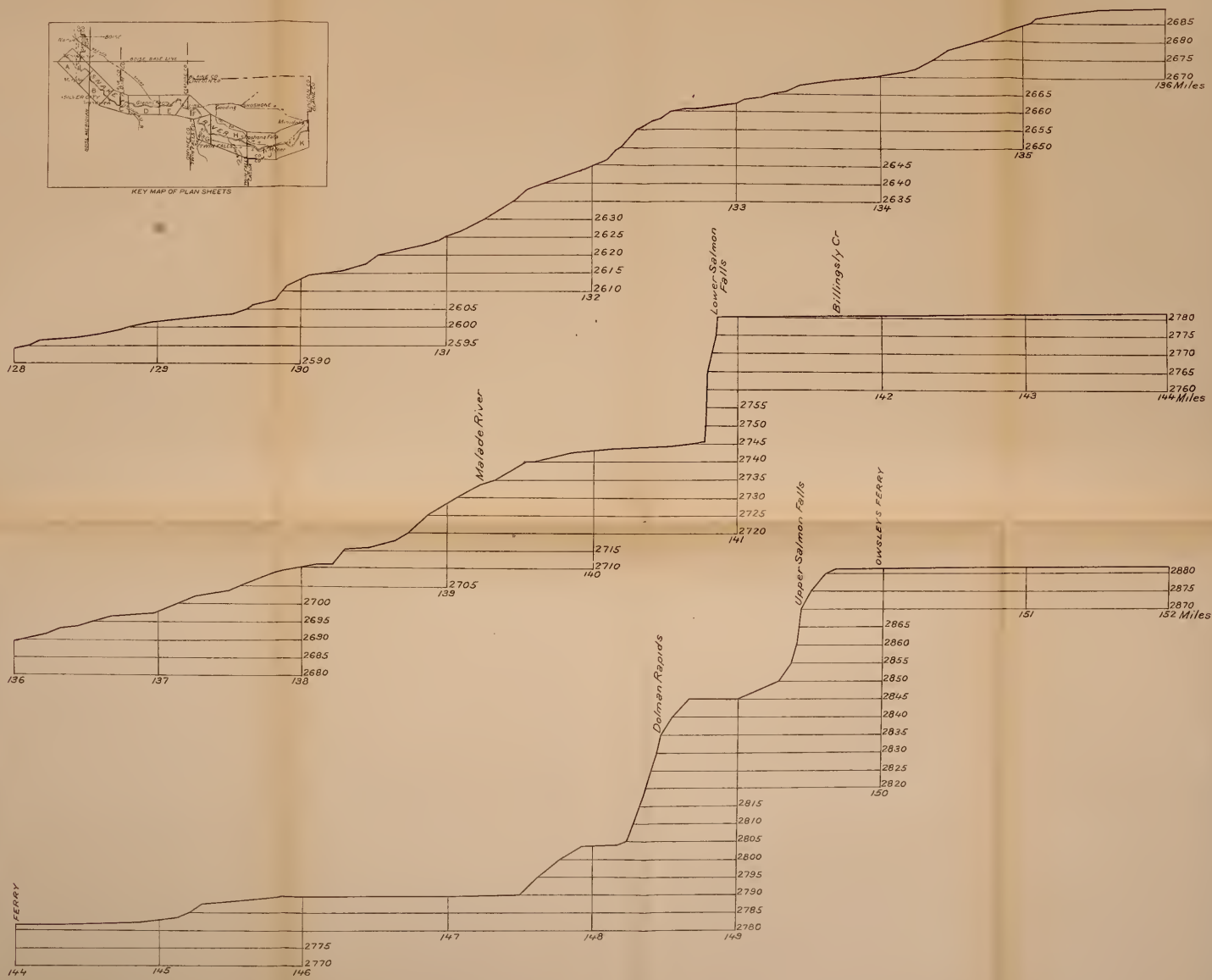








KEY MAP OF PLAN SHEETS



R. B. Marshall, Chief Geographer  
 I. G. Gardiner, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Subject to adjustment  
 19 SHEETS  
 (10 plans, 9 profiles)

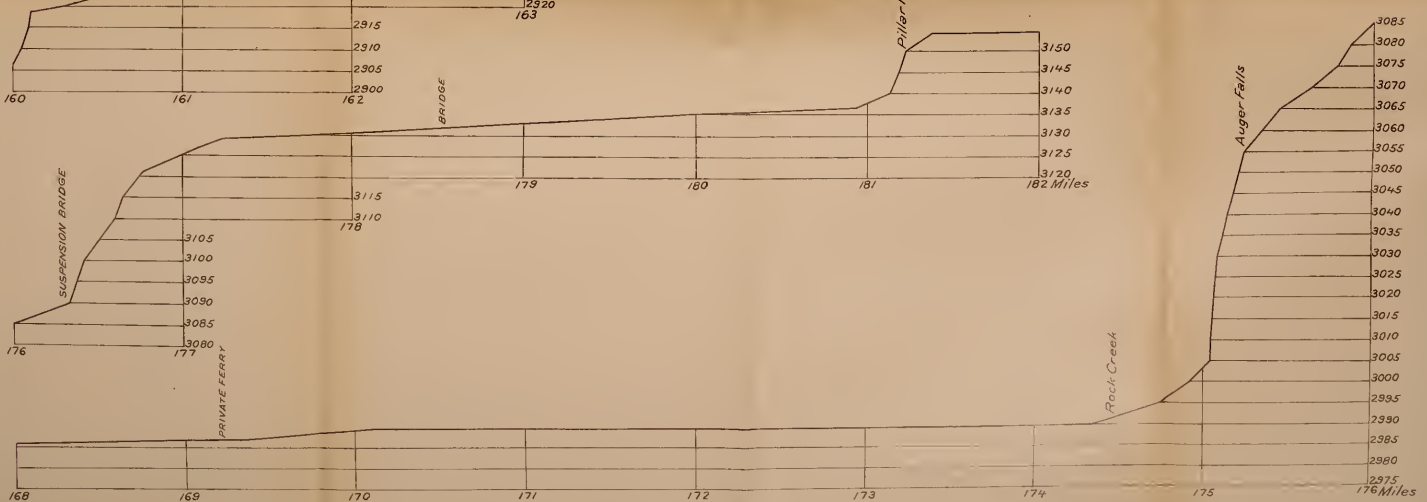
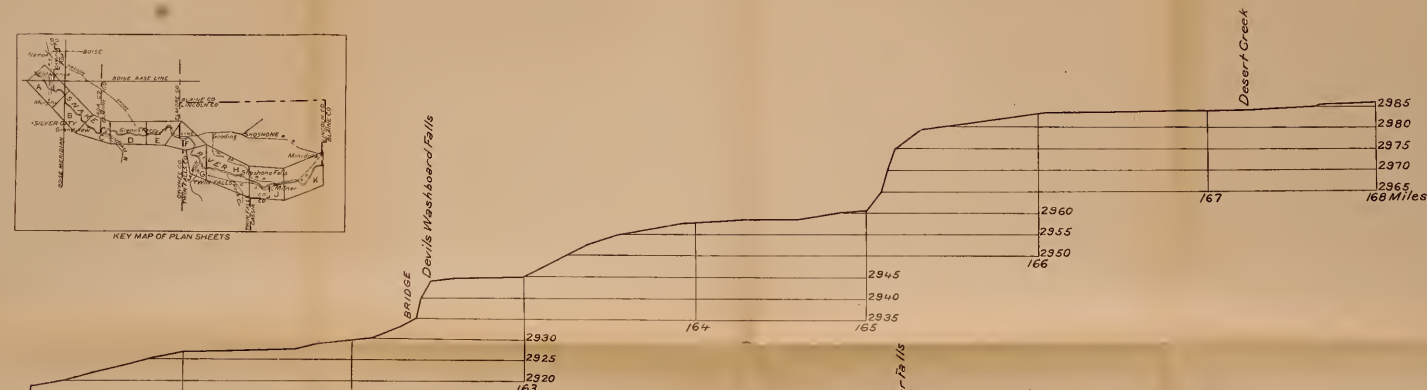




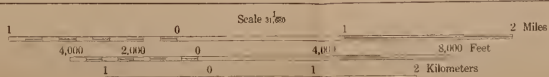




PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO



R. B. Marshall, Chief Geographer  
 T. G. Gardine, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Subject to adjustment  
 19 SHEETS  
 (10 plan, 9 profiles)

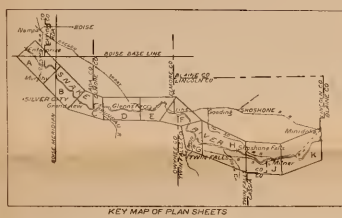
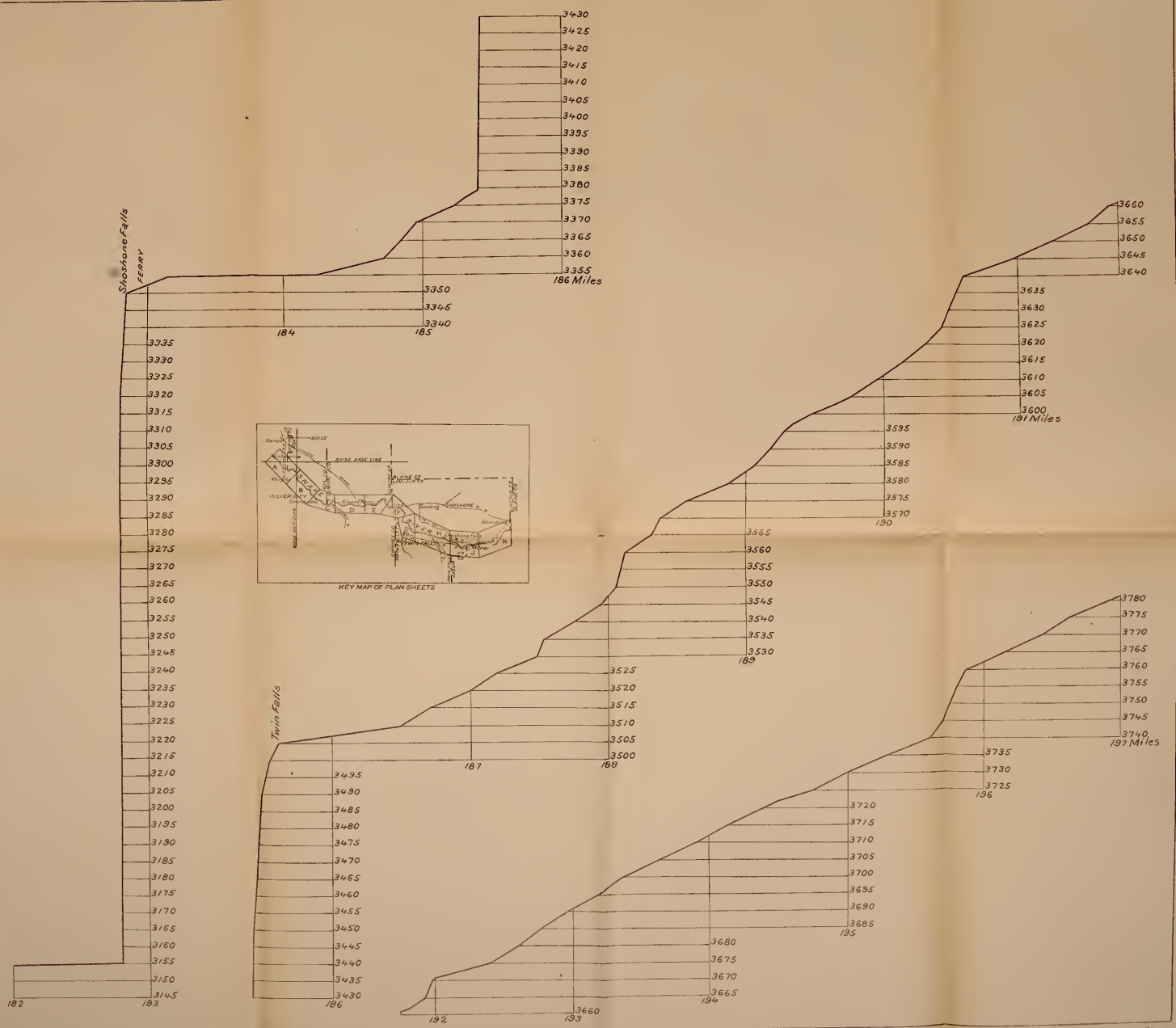
Vertical scale 1 inch = 20 feet  
 Datum is mean sea level  
 1914





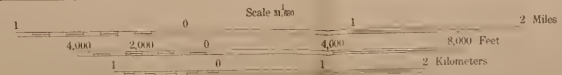


PLAN AND PROFILE OF  
 SNAKE RIVER,  
 ENTERPRISE, IDAHO, TO MINIDOKA, IDAHO



R. B. Marshall, Chief Geographer  
 C. G. Gendine, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912

SURVEYED IN COOPERATION WITH THE STATE OF IDAHO



Vertical scale 1 inch = 20 feet  
 Datum is mean sea level  
 1914

Subject to adjustment  
 19 SHEETS  
 (10 plans, 9 profiles)



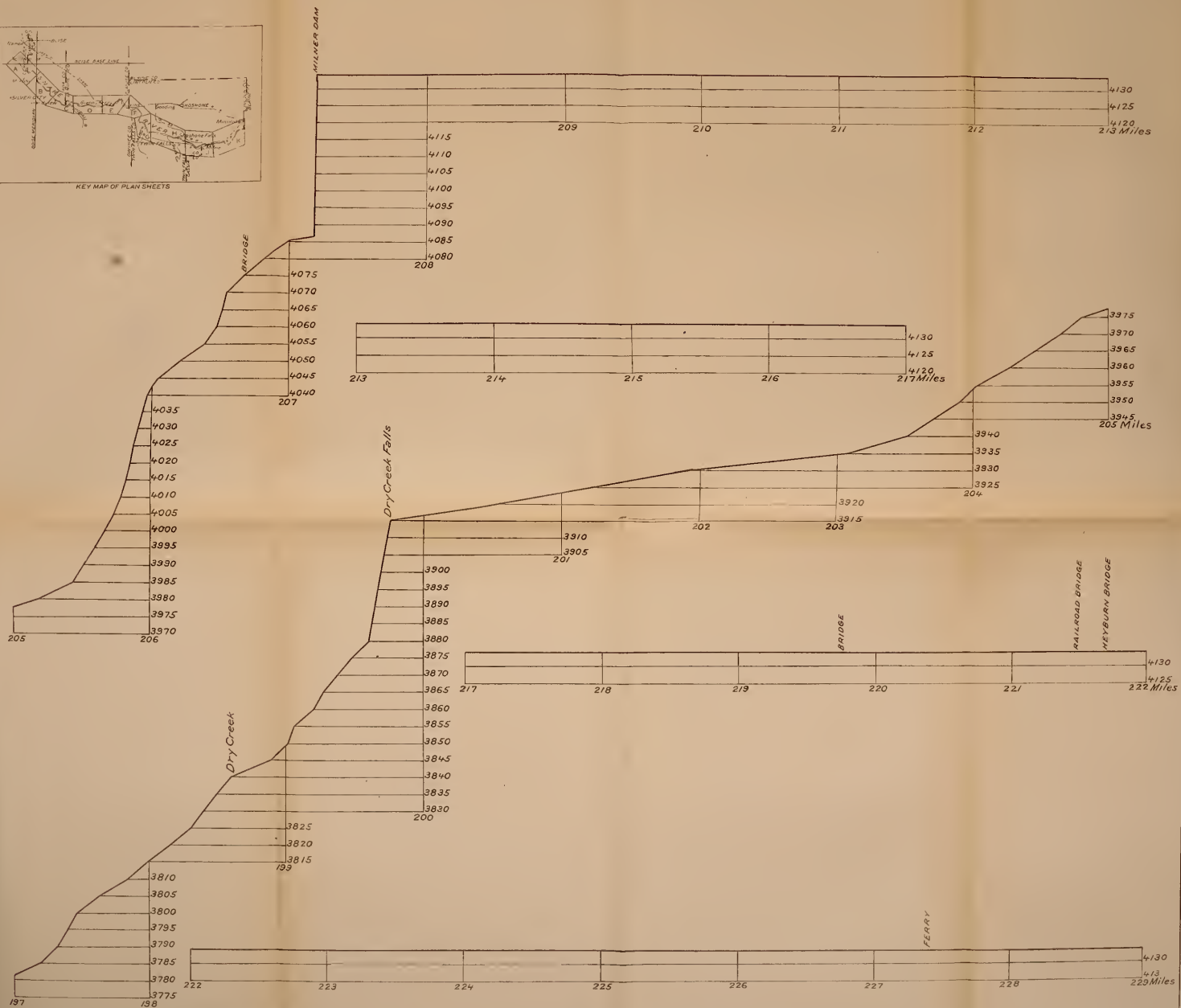




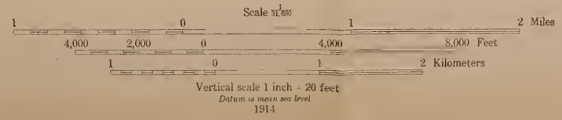




KEY MAP OF PLAN SHEETS



R. B. Marshall, Chief Geographer  
 T. G. Gerdine, Geographer in charge  
 Topography by A. T. Fowler  
 Surveyed in 1912  
 SURVEYED IN COOPERATION WITH THE STATE OF IDAHO

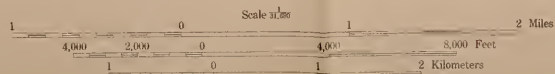
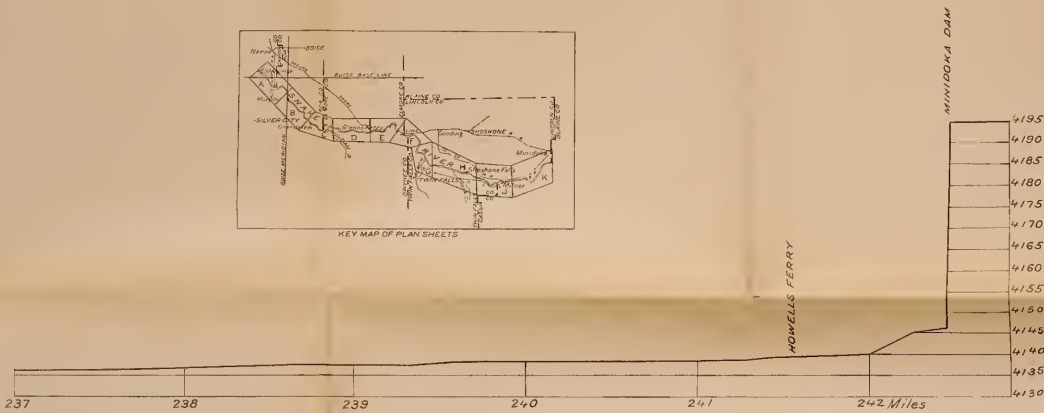
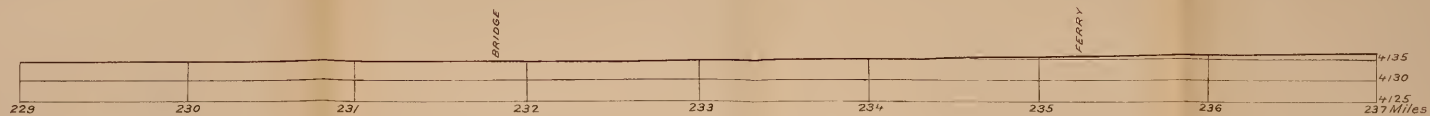


Subject to adjustment  
 19 SHEET  
 (10 plans, 9 profiles)













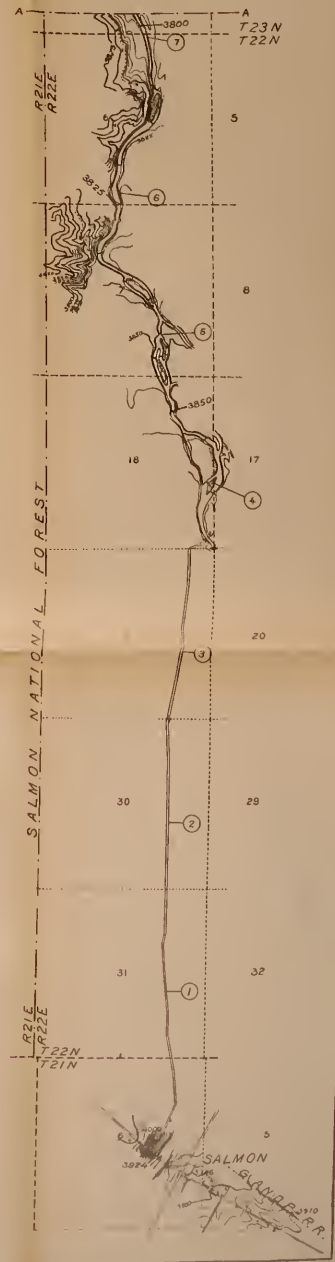
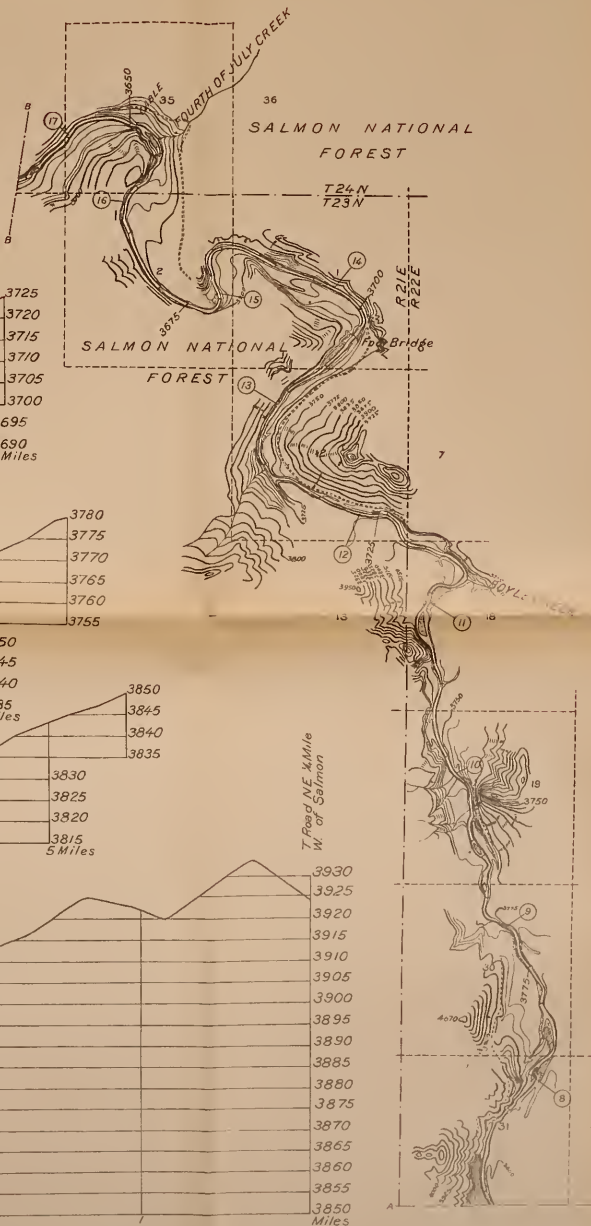
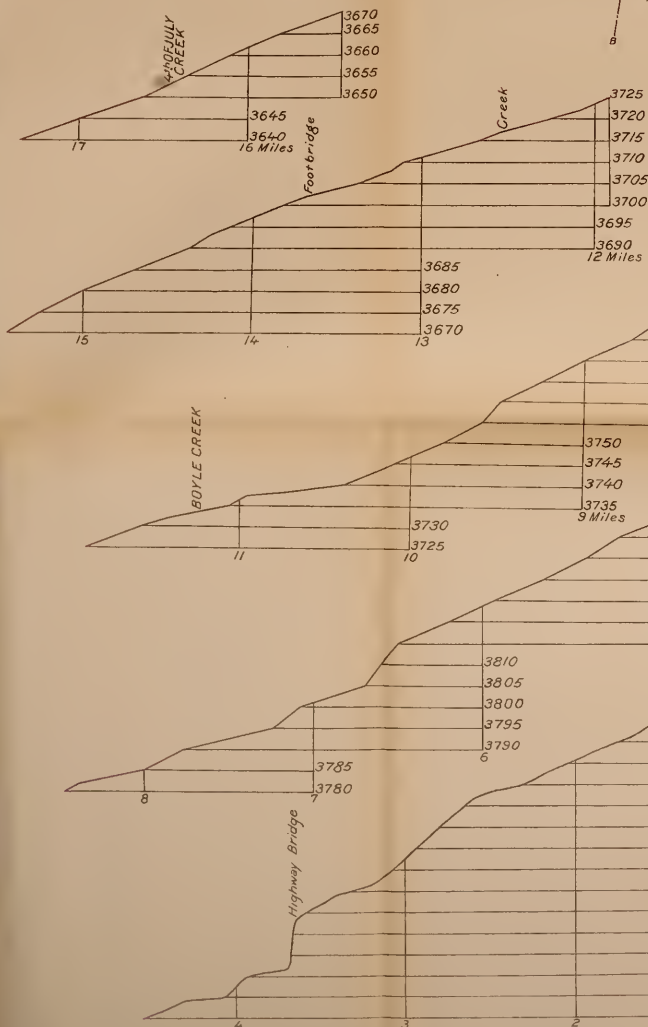
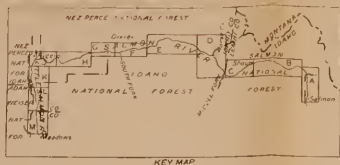




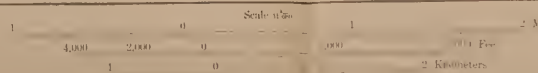
PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

WATER-SUPPLY PAPER 347 PLATE II A

U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR



R. B. Maeklin Chief topographer.  
T. G. Griffin, Geographer in charge.  
Topography by W. H. Baninger.  
Stereos.



Vertical scale 1 inch = 20 feet  
Contour interval, 25 feet  
Datum is 2 feet above mean level  
1914







PLAN AND PROFILE OF  
 SALMON RIVER,  
 SALMON, IDAHO, TO RIGGINS, IDAHO  
 LITTLE SALMON RIVER,  
 RIGGINS, IDAHO, TO MEADOWS, IDAHO

WATER-SUPPLY PAPER 347 PLATE II B

U. S. GEOLOGICAL SURVEY  
 GEORGE OTIS SMITH, DIRECTOR



R. B. Marshall, Chief Geographer  
 T. G. Gardine, Geographer in charge  
 Topography by W. H. Banning  
 Surveyed in 1910

1	2	3	4	5	6	7	8	9	10
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1



Vertical scale 1 inch = 20 feet  
 Contour interval = 5 feet  
 Datum is 1 foot above mean sea level  
 1914

Subject of adjustment

12 SHEETS





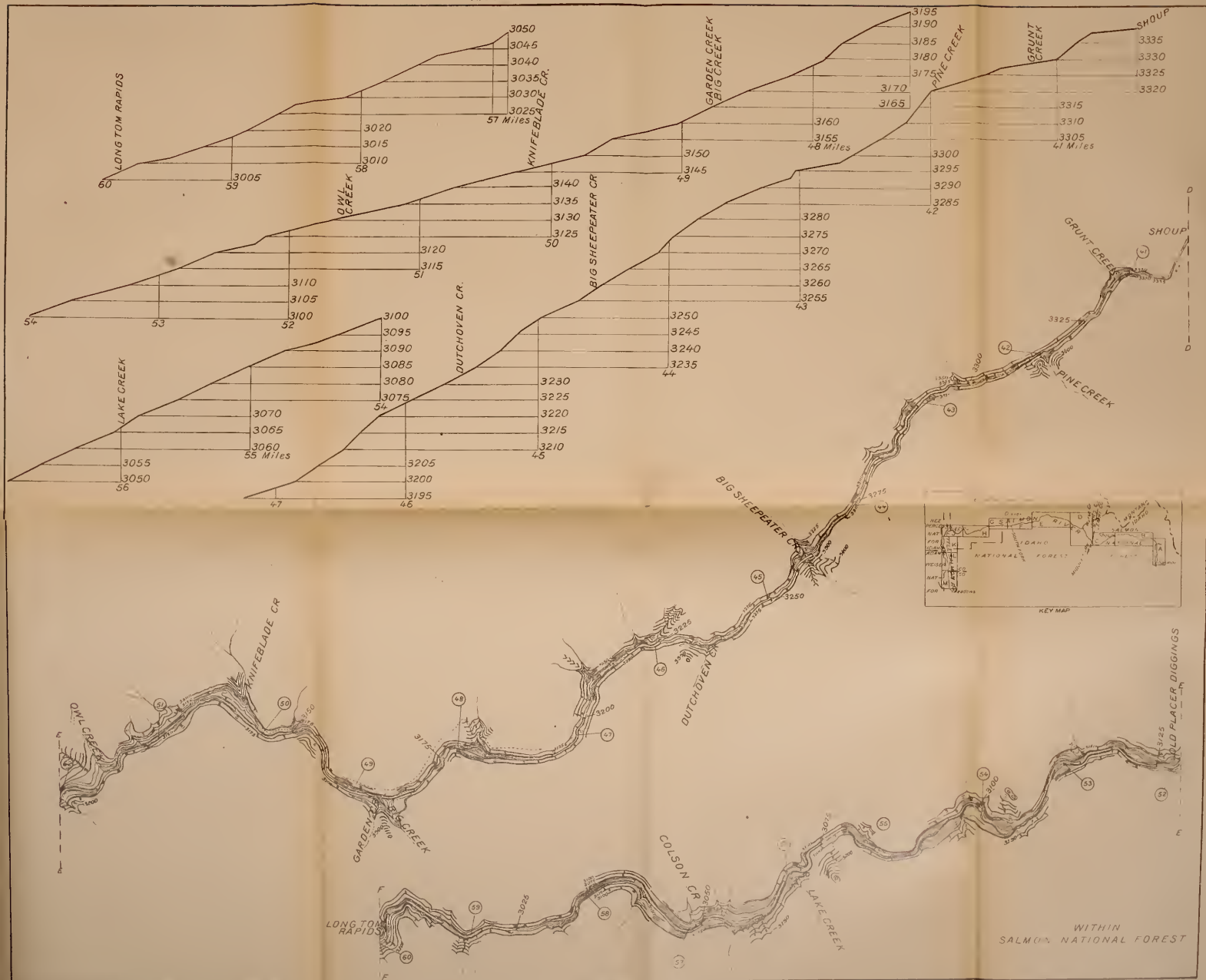




PLAN AND PROFILE OF  
 SALMON RIVER,  
 SALMON, IDAHO, TO RIGGINS, IDAHO  
 LITTLE SALMON RIVER,  
 RIGGINS, IDAHO, TO MEADOWS, IDAHO

WATER-SUPPLY PAPER 347 PLATE II C

U. S. GEOLOGICAL SURVEY  
 GEORGE OTIS SMITH, DIRECTOR



A. M. ...  
 G. ...  
 W. H. ...







PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR

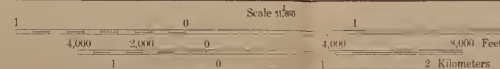
WATER-SUPPLY PAPER 347 PLATE II D



R. B. Marshall, Chief Geographer  
T. G. Gerding, Geographer in charge  
Topography by W. H. Barringer  
Surveyed in 1910

DIAGRAM OF TONNAGE

0-5	5-10
10-15	15-20
20-25	25-30
30-35	35-40
40-45	45-50
50-55	55-60
60-65	65-70
70-75	75-80
80-85	85-90
90-95	95-100



Vertical scale 1 inch = 20 feet  
Contour interval 5 feet  
Datum is 29.7 feet above mean sea level  
1914

Sheet 13 of 15  
12 SHEETS





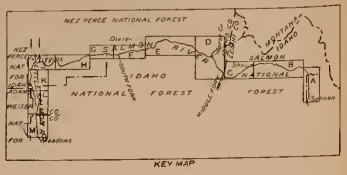




PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

WATER-SUPPLY PAPER 347 PLATE II E

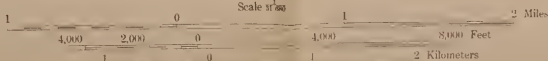
U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR



R. B. Marshall, Chief Geographer  
T. G. Ciedine, Geographer in charge  
Topography by W. H. Barninger  
Searched in 1916

CHAMBER OF COMMERCE

4	5	2	7
7	8	9	10
11	12	13	14
15	16	17	18
19	20	21	22
23	24	25	26
27	28	29	30
31	32	33	34
35	36	37	38
39	40	41	42
43	44	45	46



Vertical scale 1 inch = 50 feet  
Contour interval 5 feet  
Datum is 26 feet above mean sea level  
1914



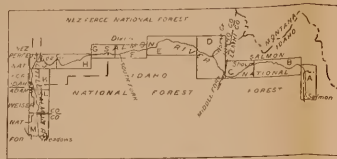




PLAN AND PROFILE OF  
 SALMON RIVER, IDAHO, TO RIGGINS, IDAHO  
 LITTLE SALMON RIVER,  
 RIGGINS, IDAHO, TO MEADOWS, IDAHO

U. S. GEOLOGICAL SURVEY  
 GEORGE OTIS SMITH, DIRECTOR

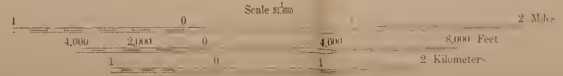
WATER-SUPPLY PAPER 347 PLATE II F



R. B. Marshall, Chief Geographer  
 J. H. ... in charge  
 Topography by O. S. Taylor

DIAGRAM OF TOWNSHIPS

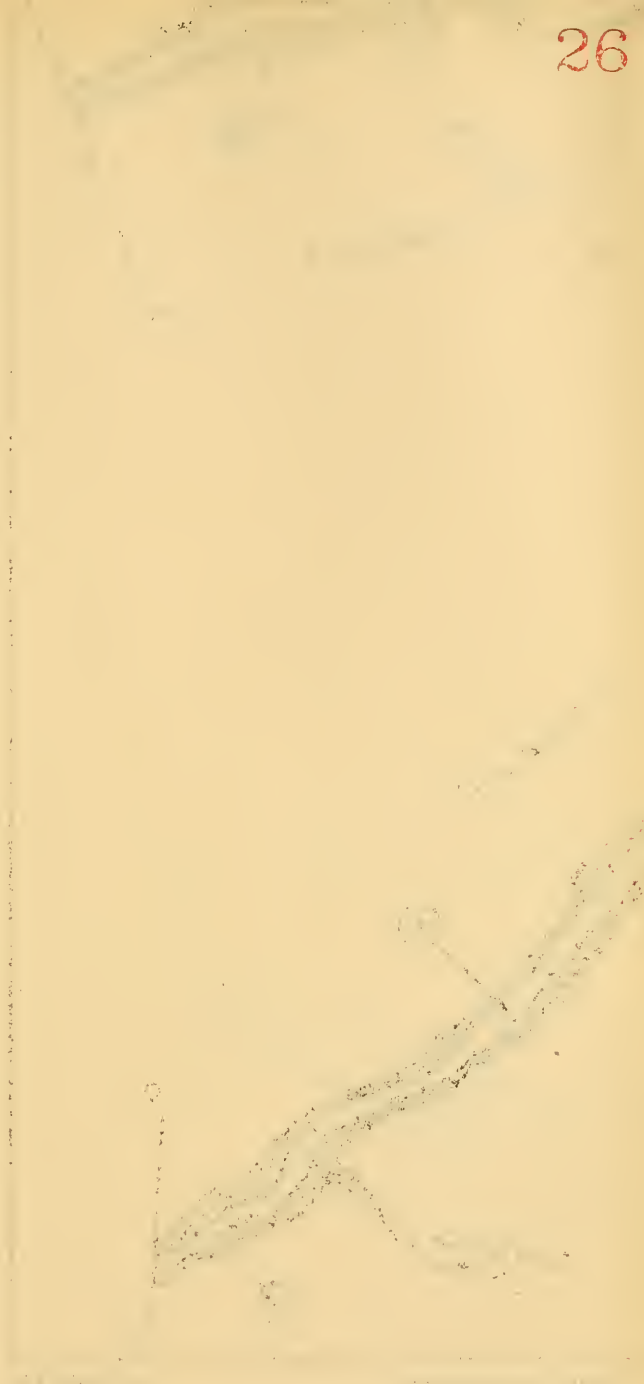
5 2 2
7 8 9 10 11 12
13 14 15 16 17 18
19 20 21 22 23 24
25 26 27 28 29 30
31 32 33 34 35 36



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is 28 feet above mean sea level  
 1914









PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR

WATER-SUPPLY PAPER 347 PLATE II G



R. B. Marshall, Chief Geographer  
T. G. Gardina, Geographer in charge  
Topography by O. G. Taylor  
Surveyed in 1911

DIAGRAM OF TOWNSHIP

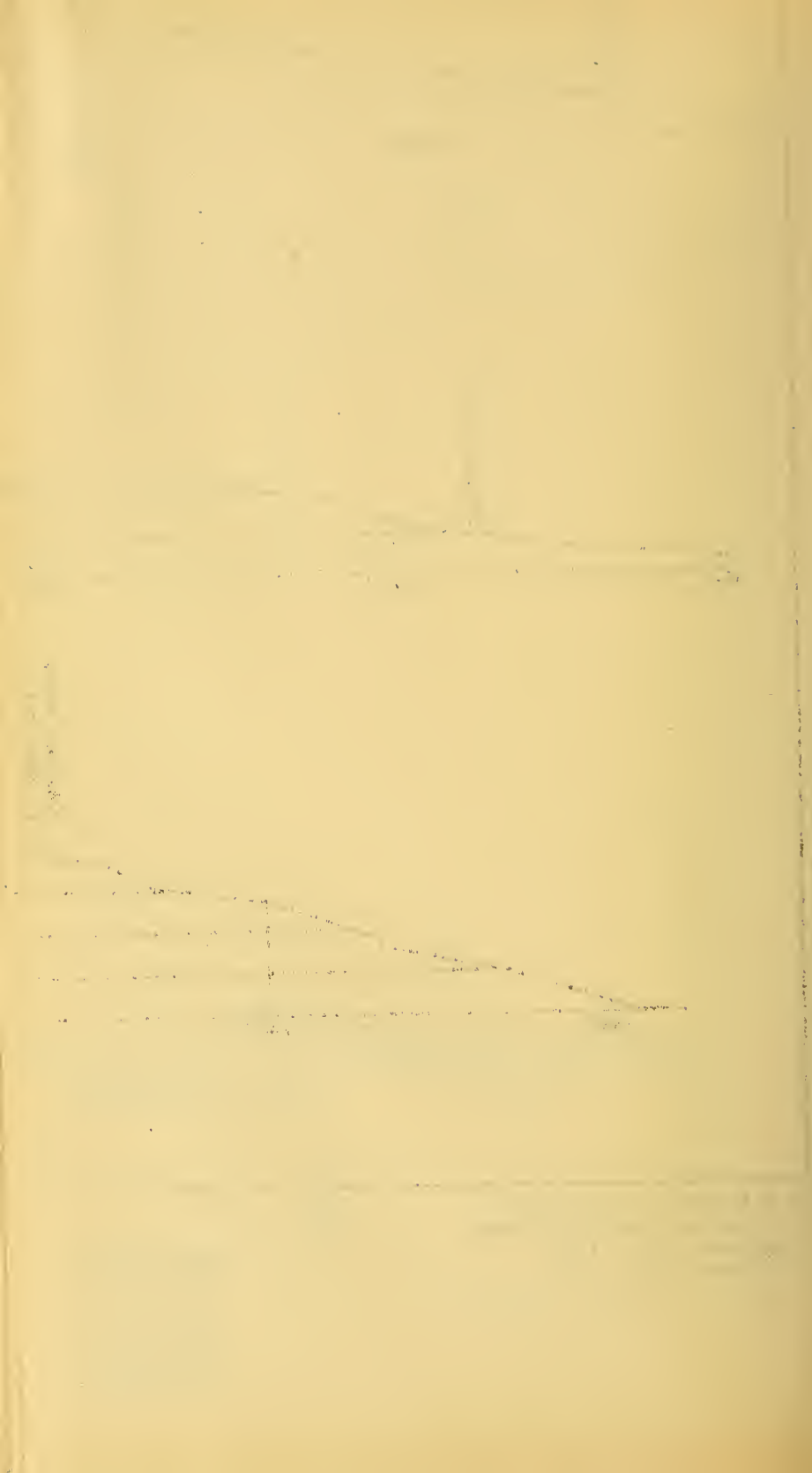
5	5	3	7		
7	8	9	10	11	12
10	17	16	15	14	13
18	20	21	22	23	24
20	28	29	30	31	32
21	31	33	34	35	36



Vertical scale 1 inch = 20 feet  
Contour interval on land 25 feet  
Contour interval on river surface 5 feet  
Datum is 20 feet above mean sea level  
1914



Subject to adjustment 12 SHEETS



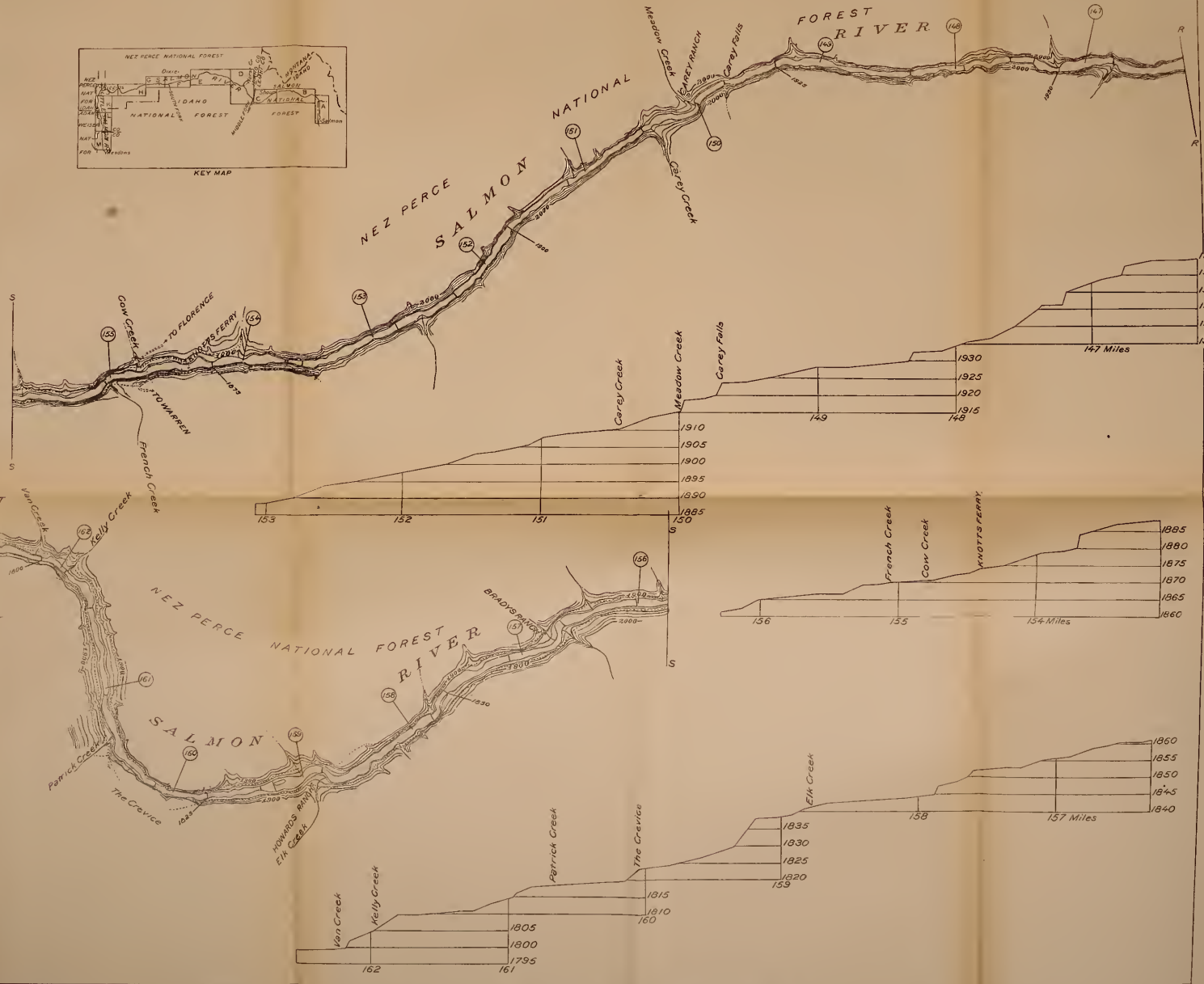
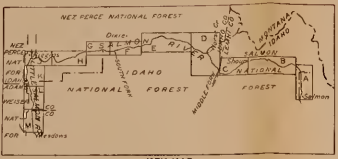




PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

WATER-SUPPLY PAPER 347 PLATE II H

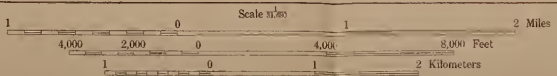
U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR



R. B. Marshall, Chief Geographer  
T. G. Gerding, Geographer in charge  
Topography by O. G. Taylor  
Surveyed in 1911

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1									
7	6	5	4	3	2	1								
8	7	6	5	4	3	2	1							
9	8	7	6	5	4	3	2	1						
10	9	8	7	6	5	4	3	2	1					
11	10	9	8	7	6	5	4	3	2	1				
12	11	10	9	8	7	6	5	4	3	2	1			
13	12	11	10	9	8	7	6	5	4	3	2	1		
14	13	12	11	10	9	8	7	6	5	4	3	2	1	
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1



Vertical scale 1 inch = 20 feet  
Contour interval on land 25 feet  
Contour interval on river surface 5 feet  
Datum is 20 feet above mean sea level

203°  
APPROXIMATE M.C.  
DECLINATION 1911

Subject to adjustment 12 SHEETS





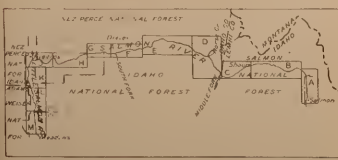
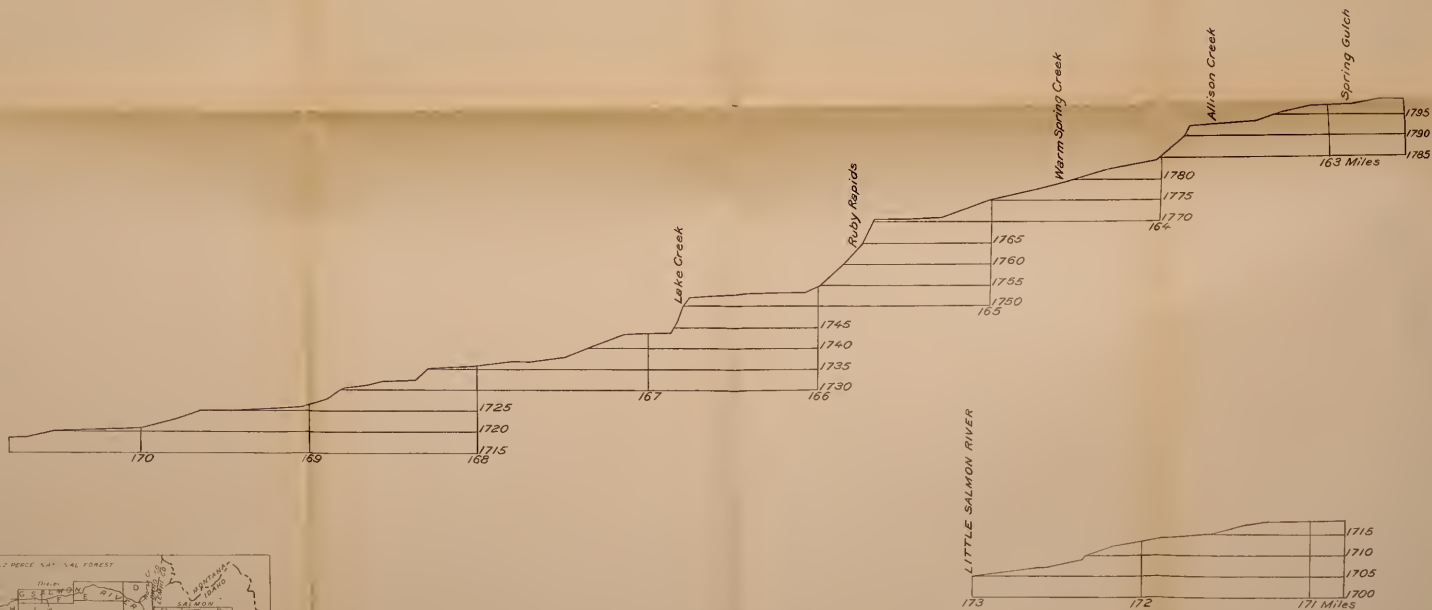
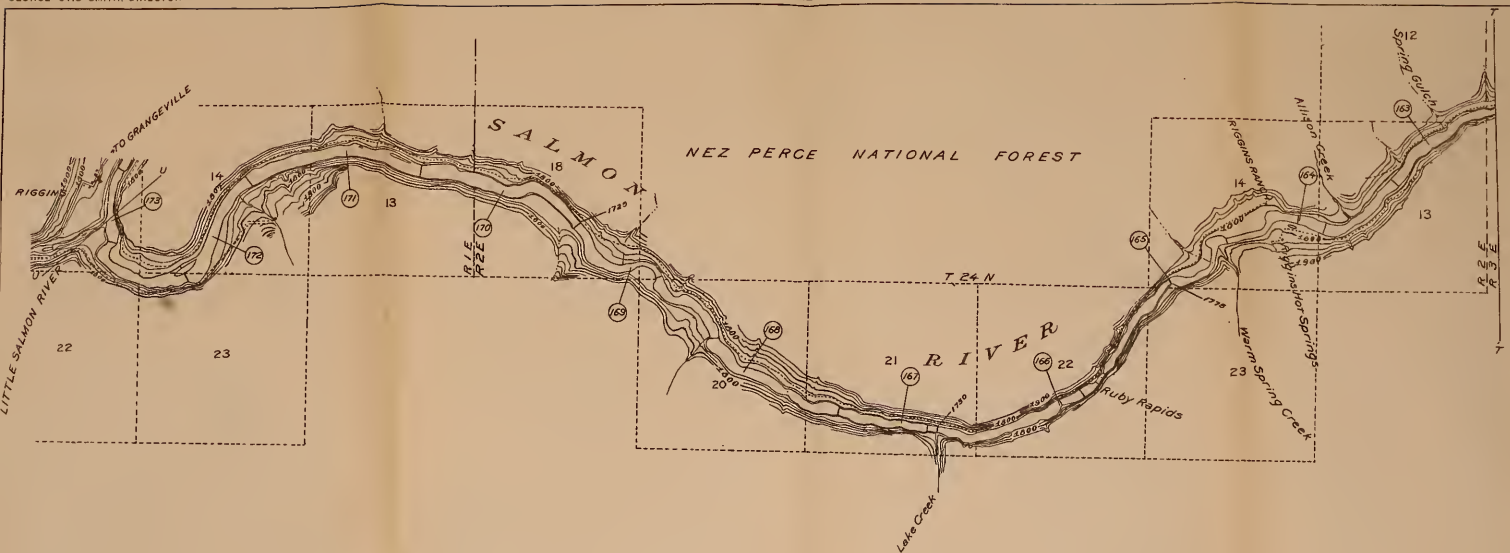




PLAN AND PROFILE OF  
 SALMON RIVER,  
 SALMON, IDAHO, TO RIGGINS, IDAHO  
 LITTLE SALMON RIVER,  
 RIGGINS, IDAHO, TO MEADOWS, IDAHO

U. S. GEOLOGICAL SURVEY  
 GEORGE OTIS SMITH, DIRECTOR

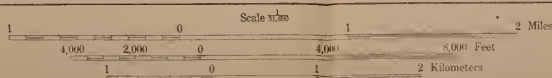
WATER-SUPPLY PAPER 347 PLATE II J



R B Marshall, Chief Geographer  
 T S. Geidine, Geographer in charge  
 Topography by O. G. Taylor  
 Surveyed in 1911

DIAGRAM OF TOWNSHIP

16	5	4	3	2	1
17	6	5	4	3	2
18	7	6	5	4	3
19	8	7	6	5	4
20	9	8	7	6	5
21	10	9	8	7	6
22	11	10	9	8	7
23	12	11	10	9	8
24	13	12	11	10	9
25	14	13	12	11	10
26	15	14	13	12	11
27	16	15	14	13	12
28	17	16	15	14	13
29	18	17	16	15	14
30	19	18	17	16	15
31	20	19	18	17	16
32	21	20	19	18	17
33	22	21	20	19	18
34	23	22	21	20	19
35	24	23	22	21	20
36	25	24	23	22	21



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 1 foot  
 Datum is 28 feet above mean sea level  
 1914

Subject to adjustment

12 SHEETS







PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO,  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

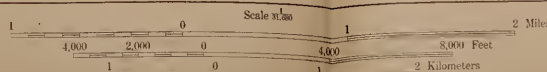
U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR

WATER-SUPPLY PAPER 347 PLATE II K

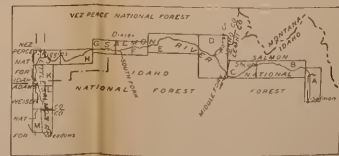


R. B. Marshall, Chief Geographer  
G. G. Gerdine, Geographer in charge  
Topography by O. G. Taylor  
Surveyed in 1911

DIAGRAM OF TOWNSHIP  
6 5 4 3 2 1  
7 8 9 10 11 12  
13 14 15 16 17  
18 19 20 21 22 23 24  
25 26 27 28 29  
30 31 32 33 34



Vertical scale 1 inch = 20 feet  
Contour interval on land 25 feet  
Contour interval on river surface 5 feet  
Datum is 28 feet above mean sea level  
1914



Subject to adjustment

12 SHEETS









PLAN AND PROFILE OF  
 SALMON RIVER,  
 SALMON, IDAHO, TO RIGGINS, IDAHO  
 LITTLE SALMON RIVER,  
 RIGGINS, IDAHO, TO MEADOWS, IDAHO

U. S. GEOLOGICAL SURVEY  
 GEORGE OTIS SMITH, DIRECTOR

WATER-SUPPLY PAPER 347 PLATE II L



R. B. Marshall, Chief Geographer  
 I. G. Gettine, Geographer in Charge  
 Topography by O. G. Taylor

DIAGRAM OF TOWNSHIP

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is 28 feet above mean sea level  
 1914

U. S. GEOLOGICAL SURVEY  
 WASHINGTON, D. C.

Subject to adjustment

12 SHEETS



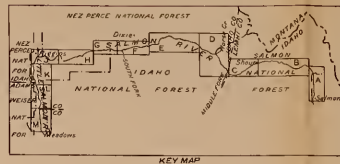
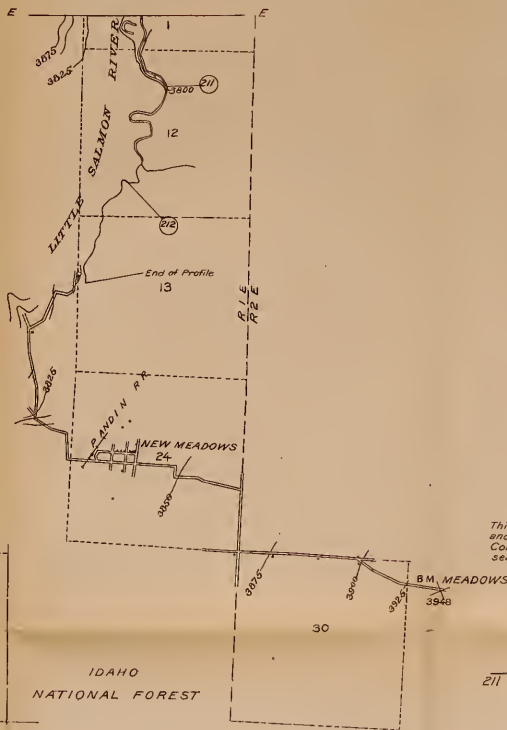
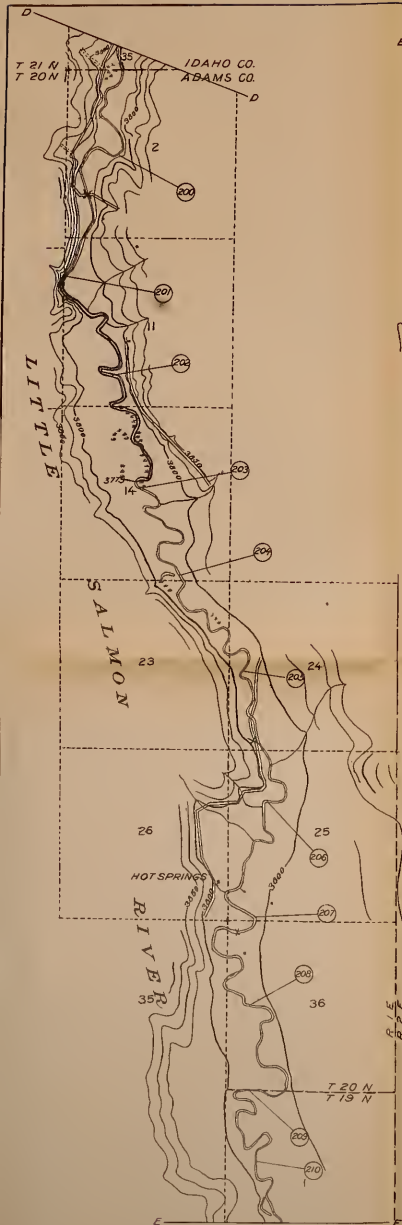




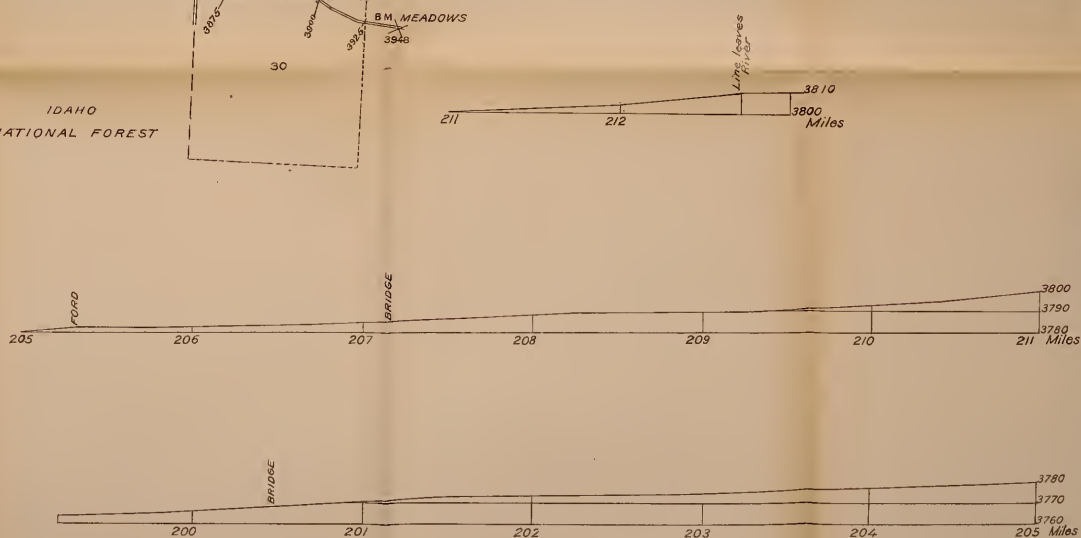
PLAN AND PROFILE OF  
SALMON RIVER,  
SALMON, IDAHO, TO RIGGINS, IDAHO  
LITTLE SALMON RIVER,  
RIGGINS, IDAHO, TO MEADOWS, IDAHO

WATER-SUPPLY PAPER 347 PLATE II M

U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR



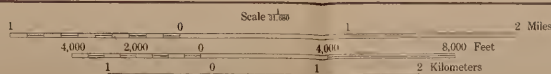
This line depends on an assumed elevation at Salmon, Idaho and closes 20 feet low on accurate elevations at Meadows. Correct elevation of this B. M. is 3976 feet above mean sea level.



R. B. Marshall, Chief Geographer  
T. G. Gardine, Geographer in charge  
Topography by O. G. Taylor  
Surveyed in 1911

DIAGRAM OF TOWNSHIP

5	5	3	2	1	
7	8	9	10	11	12
10	17	18	19	20	21
19	20	21	22	23	24
28	29	30	31	32	33
31	32	33	34	35	36



Vertical scale 1 inch = 20 feet  
Contour interval on land 25 feet  
Contour interval on river surface 5 feet  
Datum is 20 feet above mean sea level  
1914

APPROVED  
E. H. ...  
205

Subject to adjustment

12 SHEETS









PLAN AND PROFILE OF  
SALMON RIVER  
RIGGINS, IDAHO, TO SNAKE RIVER

WATER-SUPPLY PAPER 347 PLATE III A

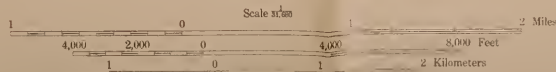
U. S. GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, DIRECTOR



R. B. Marshall, Chief Geographer  
T. G. Gerding, Geographer in charge  
Topography by O. G. Taylor  
Surveyed in 1912

GRAPHIC TABLE

1	1.0	1.0
2	2.0	2.0
3	3.0	3.0
4	4.0	4.0
5	5.0	5.0
6	6.0	6.0
7	7.0	7.0
8	8.0	8.0
9	9.0	9.0
10	10.0	10.0
11	11.0	11.0
12	12.0	12.0
13	13.0	13.0
14	14.0	14.0
15	15.0	15.0
16	16.0	16.0
17	17.0	17.0
18	18.0	18.0
19	19.0	19.0
20	20.0	20.0
21	21.0	21.0
22	22.0	22.0
23	23.0	23.0
24	24.0	24.0
25	25.0	25.0
26	26.0	26.0
27	27.0	27.0
28	28.0	28.0
29	29.0	29.0
30	30.0	30.0



Vertical scale 1 inch = 20 feet  
Contour interval on land 25 feet  
Contour interval on river surface 5 feet  
Datum is 62 feet above mean sea level  
1914

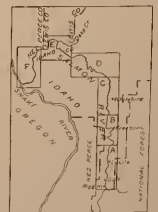
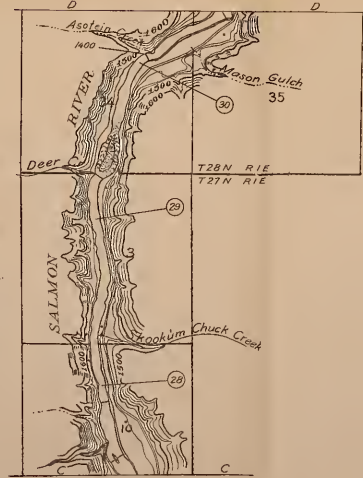
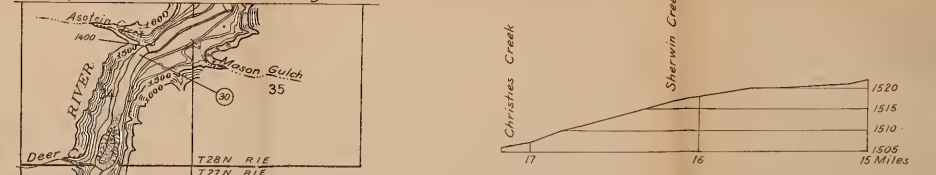
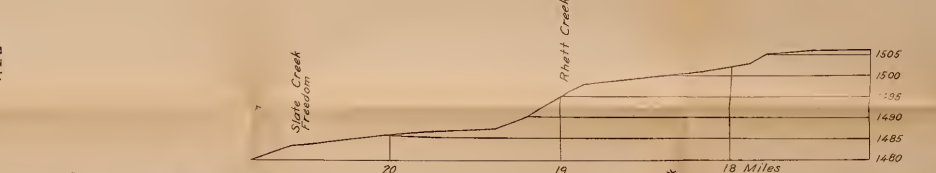
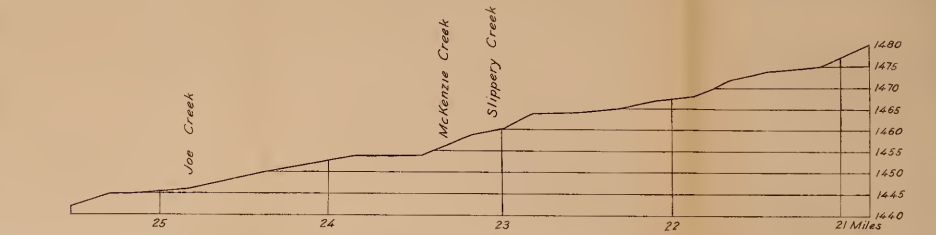
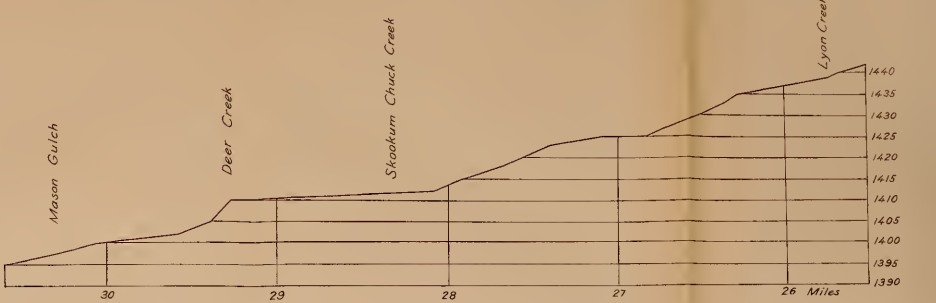
Subject to adjustment

6 SHEETS





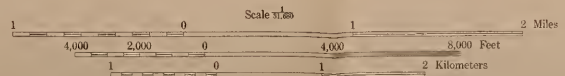




R. B. Marshall, Chief Geographer  
 T. G. Gerdine, Geographer in charge  
 Topography by O. S. Taylor  
 Surveyed in 1912

DIAGRAM OF TOWNSHIP

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is 62 feet above mean sea level

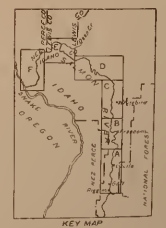
204  
 TRUE NORTH  
 MAGNETIC NORTH  
 APPROXIMATE MEAN  
 DECLINATION 1912









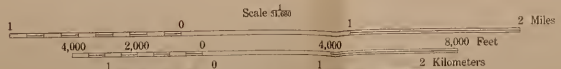


Subject to adjustment 6 SHEETS

R. B. Marshall, Chief Geographer  
 T. G. Gerding, Geographer in charge  
 Topography by O. G. Taylor  
 Surveyed in 1912

DIAGRAM OF TOWNSHIP

6	7	8	9	10	11	12
7	8	9	10	11	12	
8	9	10	11	12		
9	10	11	12			
10	11	12				
11	12					
12						



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is 62 feet above mean sea level

204°

TRUE NORTH

MAGNETIC NORTH

APPROXIMATE MEAN  
 DECLINATION 1912





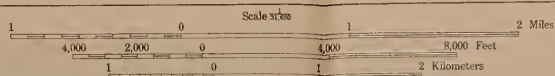




R. B. Marshall, Chief Geographer  
 T. G. Gardine, Geographer in charge  
 Topography by O. G. Taylor  
 Surveyed in 1912

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1															
7	6	5	4	3	2	1														
8	7	6	5	4	3	2	1													
9	8	7	6	5	4	3	2	1												
10	9	8	7	6	5	4	3	2	1											
11	10	9	8	7	6	5	4	3	2	1										
12	11	10	9	8	7	6	5	4	3	2	1									
13	12	11	10	9	8	7	6	5	4	3	2	1								
14	13	12	11	10	9	8	7	6	5	4	3	2	1							
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1						
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1				
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1			
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is 62 feet above mean sea level  
 1914

SCALE NORTH  
 SCALE SOUTH  
 APPROXIMATE MEAN  
 DELINEATION 11

Subject to adjustment 6 SHEETS







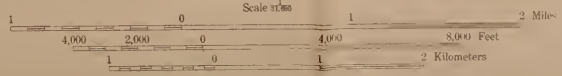




R. B. Marshall, Chief Geographer  
 T. G. Gerdine, Geographer in charge  
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DIAGRAM OF TOWNSHIP

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36

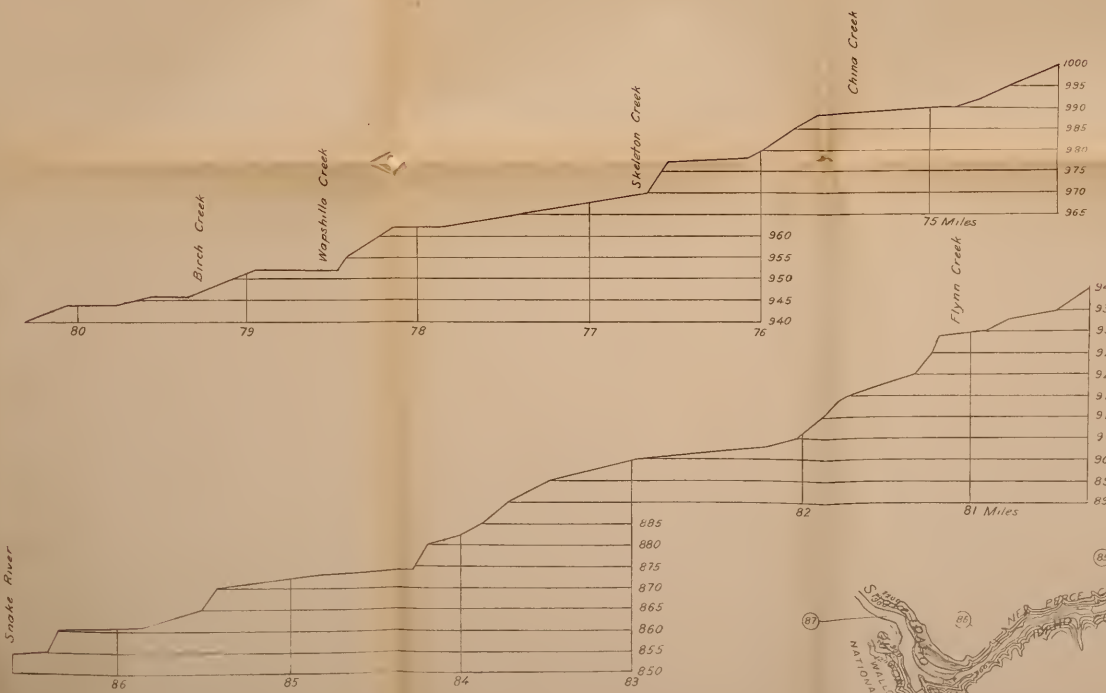
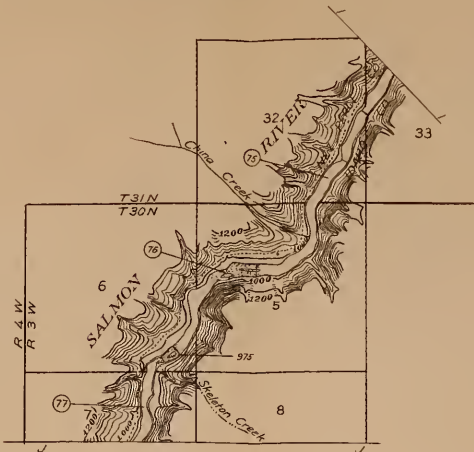
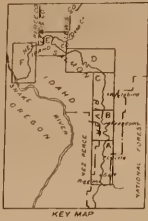


Vertical scale 1 inch = 30 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 5 feet  
 Datum is 62 feet above mean sea level  
 1914





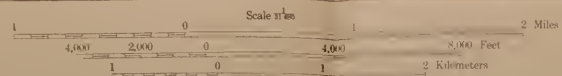




R. B. Marshall, Chief Geographer  
 T. G. Gardiner, Geographer in charge  
 Topography by O. G. Taylor  
 Surveyed in 1912

DIAGRAM OF 700' - 100'

6	5	4	3	2	1
5	4	3	2	1	0
4	3	2	1	0	-1
3	2	1	0	-1	-2
2	1	0	-1	-2	-3
1	0	-1	-2	-3	-4
0	-1	-2	-3	-4	-5
-1	-2	-3	-4	-5	-6
-2	-3	-4	-5	-6	-7
-3	-4	-5	-6	-7	-8
-4	-5	-6	-7	-8	-9
-5	-6	-7	-8	-9	-10
-6	-7	-8	-9	-10	-11
-7	-8	-9	-10	-11	-12
-8	-9	-10	-11	-12	-13
-9	-10	-11	-12	-13	-14
-10	-11	-12	-13	-14	-15
-11	-12	-13	-14	-15	-16
-12	-13	-14	-15	-16	-17
-13	-14	-15	-16	-17	-18
-14	-15	-16	-17	-18	-19
-15	-16	-17	-18	-19	-20



Vertical scale 1 inch = 20 feet  
 Contour interval on land 25 feet  
 Contour interval on river surface 10 feet  
 Datum is 62 feet above mean sea level  
 1914



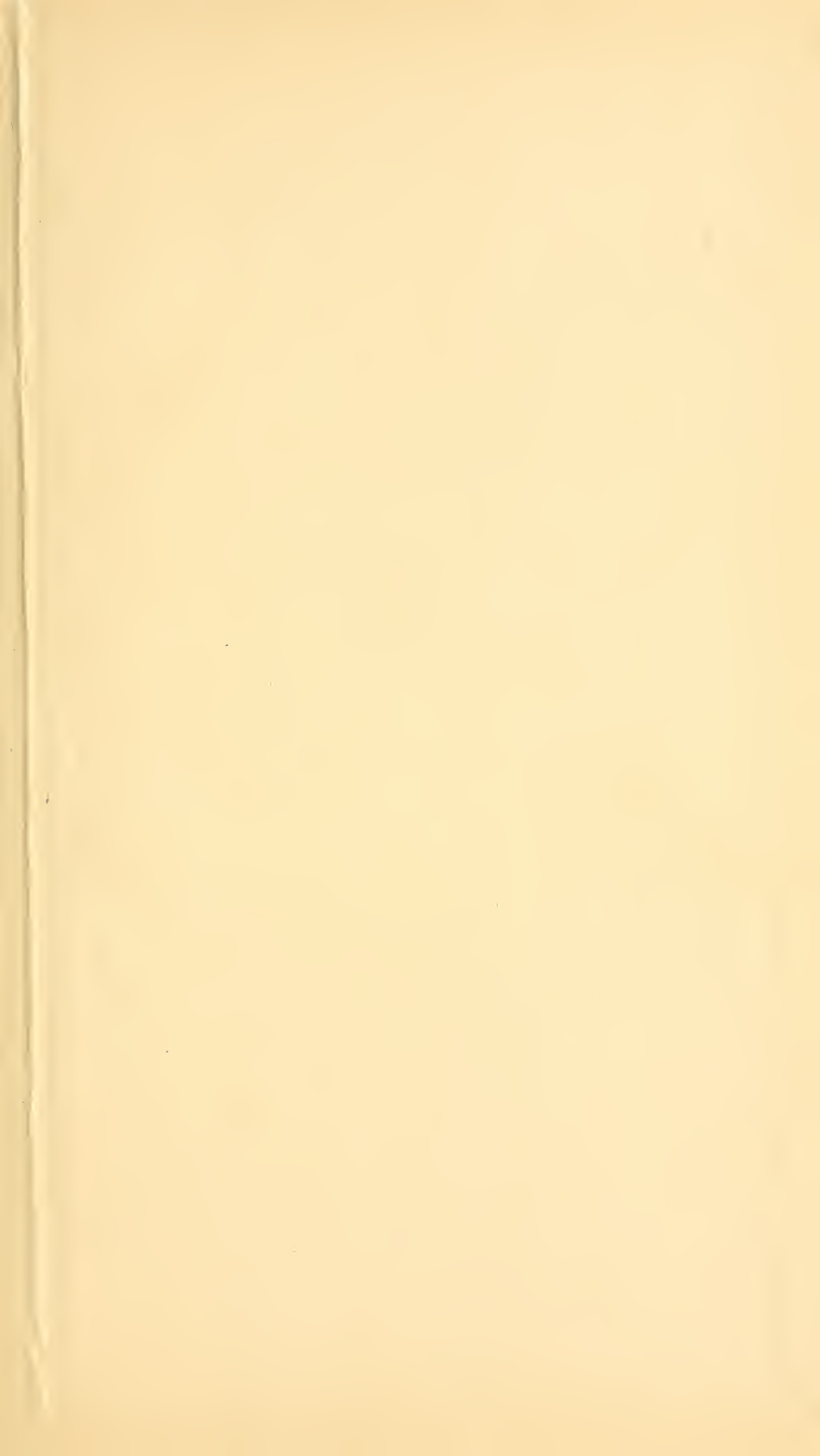












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