[EXTRACT FROM THE ANNUAL REPORT OF THE CHIEF OF ENGINEERS TO THE SECRETARY OF WAR]

War Department,
Office of the Chief of Engineers,
Washington, September 22, 1930.

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BOARD OF ROAD COMMISSIONERS FOR ALASKA

OFFICERS OF THE BOARD

President: Maj. Malcolm Elliott, Corps of Engineers, United

States Army.

Engineer officer: Maj. Douglas H. Gillette, Corps of Engineers, United States Army, to February 15, 1930; Maj. Malcolm Elliott, February 16, 1930, to June 24, 1930; and Maj. Layson E. Atkins, Corps of Engineers, United States Army, June 25, 1930, to date.

Secretary and disbursing officer: First Lieut. Emerson C. Itschner, Corps of Engineers, United States Army, to July 31, 1929; First Lieut. Philip R. Garges, Corps of Engineers, United States Army, August 1, 1929, to January 31, 1930; and First Lieut. James G. Christiansen, Corps of Engineers, United States Army, February 1, 1930,

to date.

Military assistants, under the immediate orders of the president of the board: First Lieut. Emerson L. Cummings, Corps of Engineers, United States Army, to August 29, 1929; First Lieut. Emerson C. Itschner to August 22, 1929; First Lieut. James G. Christiansen to January 31, 1930; First Lieut. Philip R. Garges to April 4, 1930; Second Lieut. Leland B. Kuhre, Corps of Engineers, United States Army, from August 19, 1929, to date; and Second Lieut. Raymond B. Oxrieder, Corps of Engineers, United States Army, from August 19, 1929, to date.

Organization and duties.—The board was constituted by an act of Congress approved January 27, 1905, and its duties are defined in that act as amended by Congress January 27, 1905, May 14, 1906, and March 3, 1913. The law prescribes that the board shall consist of three members, one of whom shall be an Engineer officer, and the others officers of that part of the Army stationed in said district.

The board has the power and the duty, upon its own motion, or upon petition to locate, lay out, construct, and maintain wagon roads and pack trails from any point on the navigable waters in the District of Alaska to any town, mining, or other industrial camp or settlement, or between any such towns, camps, or settlements therein, if in its judgment such roads or trails are needed and will be of permanent value for the development of the district.

The money therefor is derived, in part, from congressional appropriations and in part from the Alaska fund made up of moneys collected for occupation or trade license outside of the incorporated towns in the Territory, 65 per cent of which fund is devoted to the construction and maintenance of wagon roads, bridges, and trails in

the said Territory.

The substance of the laws governing the operations of the board is printed on pages 2144 and 2145 of the Annual Report of the Chief

of Engineers for 1929.

Offices of the board.—The principal office of the board is at Juneau, Alaska. Suboffices are maintained, when required by active operations, at Valdez, Chitina, Fairbanks, Eagle, Anchorage, Seward. Takotna, and Nome, Alaska; Seattle, Wash.; and Washington, D. C. Location and description.—The work thus far accomplished in-

cludes the construction of 1,6201/2 miles of wagon road, 87 miles of

tramroad, 1,403\% miles of sled road, 7,184 miles of permanent trail, and 712 miles of temporary, flagged trail, a total of 11,0071/4 miles.

The Territory has an area of 590,880 square miles, which is more than twelve times the size of the State of New York, or practically one-fifth the size of the United States proper. At its southern point it is 700 miles from the northwest point of the State of Washington by the usually traveled route. Thence the southeastern Alaska Archipelago and a strip of mainland lying west of the Canadian boundary extend northwesterly for about 520 miles to the major portion of the Territory, which lies west of the one hundred and forty-first meridian and has a dimension of approximately 900 miles north and south and 700 miles east and west, with the Alaska Peninsula and Aleutian Islands reaching out from the southwestern portion nearly 2,500 miles toward Siberia.

The topography of Alaska varies from rolling to extremely rugged, with little level area. The seaward slope, as far west as Cook Inlet, is especially rugged and subject to a heavy rain and snow fall.

The timber along the coast attains a dense growth, but in the interior is found only along the stream valleys. Spruce and hemlock form the greatest part of the timber on the coast. Hemlock is not

found in the interior.

On the north slope of the Alaska range and on interior river valleys considerable areas are found frozen permanently to bedrock. The climate and topography throughout are such that in the summer time passage overland is difficult. On the seaward slope the heavy rainfall upon the blanket of decayed vegetation creates a footing almost impassable. In the interior the surface thawing of the bed of

frozen material makes a widespread and difficult morass.

Original condition.—Prior to the organization of the Board of Road Commissioners for Alaska there were in the whole of the Territory less than a dozen miles of what might be called wagon road, with a few hundred miles of pioneer trail, mostly constructed by expeditions under the War Department. Travel was largely confined to the open waterways in summer and to their frozen courses overland in winter. When mining machinery and other supplies were to be transported from the coast or river landing they were in most cases hauled over the snow during the winter, with some preliminary clearing of the route when necessary. Travel across country in summer, generally speaking, was possible only on foot or with pack horses. It was difficult always, and frequently dangerous, on account of the numerous swift and deep streams, fed by the ice-cold and silt-laden waters of mountain glaciers.

Previous projects.—See description in Annual Report of the Chief of Engineers for 1923, beginning on page 2086. A new program of operations was recommended in the Annual Report of the Chief of Engineers, 1920, pages 61 to 65. The amounts expended on previous projects prior to June 30, 1921, were \$3,727,249.69 for new work and

\$2,276,812.27 for maintenance, a total of \$6,004,061.96.

Existing project.—A new program of operations, prepared by the board of road commissioners in cooperation with the Governor of Alaska, the Territorial Road Commission, and other interested Federal and Territorial officials, was submitted in the annual report of the board for 1920. It proposes three classes of work: First, the construction of about 700 miles of arterial or feeder highways, mainly following old routes (estimated cost, \$7,000,000); second, the construction of development roads to be constructed from time to time on locations left for future determination (estimated cost, \$1,000,000); third, the maintenance of existing road and trail system (estimated cost for the 10-year period, \$2,000,000). Total estimated cost, \$10,000,000.

The total appropriations for the first five years were less than half the estimates, and about three-fourths of the available funds were required for maintenance and repair. Construction should be speeded up so as to get the maximum benefit from the work already accomplished, and the 1920 program was, therefore, revised in 1924. The appropriations recommended for the second five years of the 10-year period are as follows:

(a)	For maintenance and improvement of existing routes to the same standard throughout, 9,736 miles, at \$870,000 per year	\$4, 350, 000
(b)	For completion of projects already undertaken	
(o)	For completion of projects already approved but not yet under-	
	taken	1, 780, 000
(d)	For completion of projects likely to arise with development	
	during the 5 years	1, 135, 000
	Total for 5 years	9, 000, 000

Federal appropriations required each year of 5-year period of road and trail development

PROGRAM FOR 1924

Fiscal year	Work- ing season	(a) Mainte- nance existing routes	(b) Comple- tion, approved projects already under way	(c) Construction, approved projects not yet under way	(d) Construction, new projects likely to develop	Total estimated	Amount actually appro- priated
1927 1928 1929 1930 1931 Total	1926 1927 1928 1929 1930	\$950,000 850,000 850,000 850,000 850,000 4,350,000	\$510,000 475,000 400,000 250,000 100,000	\$290,000 575,000 550,000 300,000 65,000	\$100,000 200,000 350,000 485,000 1,135,000	\$1,750,000 2,000,000 2,000,000 1,750,000 1,500,000 9,0000,000	\$900, 000 1, 000, 000 825, 000 800, 000 800, 000 4, 325, 000

A new 10-year program to continue the work beginning with fiscal year 1932 has been submitted. It provides for maintenance and improvement of the existing system and for needed new construction to keep pace with the development of the territory.

The appropriations recommended for each year of this 10-year period are as follows:

PROGRAM FOR 1929

	Work-	For main-	For new	Total for mainte-	Total for sources mainte-		nainte-		m Alaskan	Federal	
Fiscal year	ing season	and im-	construc- tion	nance, im- provement, and new construc- tion	Alaska fund	Territo- rial ap- propria- tions	Total from Alaska	appro- priations required			
1932	1931	\$886,000	\$400,000	\$1, 286, 000	\$130,000	\$100,000	\$230,000	\$1,056,000			
1933	1932	871,000	600,000	1, 471, 000	130,000	100,000	230,000	1, 241, 000			
1934	1933	866, 000	900,000	1, 766, 000	130,000	100,000	230,000	1, 536, 000			
1935	1934	856, 000	900,000	1, 756, 000	130,000	100,000	230,000	1, 526, 000			
1936					130,000	100,000	230,000	1, 511, 000			
	1935	841,000	900,000	1, 741, 000	130,000						
1937	1936	882,000	1,000,000	1, 882, 000	130,000	100, 000	230,000	1, 652, 000			
1938	1937	918, 000	900, 000	1, 818, 000	130,000	100, 000	230, 000	1, 588, 000			
1939	1938	954, 000	900,000	1, 854, 000	130,000	100,000	230, 000	1, 624, 000			
1940	1939	978, 000	600,000	1, 578, 000	130,000	100,000	230,000	1,348,000			
1941	1940	995, 000	400,000	1, 395, 000	130,000	100,000	230, 000	1, 165, 000			
Total		9, 047, 000	7, 500, 000	16, 547, 000	1, 300, 000	1, 000, 000	2, 300, 000	14, 247, 000			

For latest published maps see map following page 151, Part II, of the Annual Report of the Alaska Road Commission, fiscal year 1929, and also a wall map of Alaska published by the board of road commissioners, 1923.

Recommended modifications of project.—None.
References to published articles not previously reported.—None.

Local cooperation.—For description of development of local cooperation, authorized by the act of June 30, 1921, previously quoted, see Annual Report of the Chief of Engineers for 1924, beginning on page 2071.

During the fiscal year the board has expended directly \$8,206.83 for shelter cabins, \$96,273.99 for roads, \$39,216.81 for aviation fields, \$5,661.20 for the Valdez Dike, \$361 for marking Gastineau Channel Bar, Yukon-Kuskokwim Portage \$10,500, and \$4,680.64 for telephone lines from funds contributed by the Territory, and \$15,179.68 contributed by others.

For the working season of 1930 the Territorial board has allotted to the Department of Agriculture \$11,000 and to the Federal board the following amounts:

Cooperative road projects	\$53, 500
Territorial road projects	29, 750
Shelter cabins	8,000
Aviation fields	33, 400
Telephone lines	5, 000
Nome Harbor	2, 500
Valdez Dike	7, 500
-	400 070

These funds are held subject to the call of the Federal board.

Cooperation with the Territory has been continued in connection with the purchase, rehabilitation, and operations of two tramroads, one extending from Nome to Shelton on the Seward Peninsula, a distance of about 74 miles, and the other situated in the Tolovana district about 50 miles northwesterly from Fairbanks and extending from the town of Brooks about 13 miles southerly to the head of navigation on the Tolovana River.

The Nome-Shelton tramroad was purchased on October 3, 1922, for \$24,014. During the fiscal year \$12,275.15 was spent on its maintenance.

The Tolovana tramroad was purchased on June 11, 1924, for \$6,425. During the fiscal year \$8,688.07 was spent on its rehabilitation and maintenance.

During the year the board assumed responsibility for the construction and maintenance of 40 aviation fields and the repair and maintenance of 736 miles of telephone lines for the Territory.

The general road and trail system of the board ties into the Alaska Railroad, operated by the Secretary of the Interior, at 27 different stations. These highway and trail feeders to the Government railroad are an important factor in increasing business for the railroad, and thereby reducing its present operating deficit.

Since April 1, 1922, the board, under an agreement with the Secretary of the Interior, has handled road and trail work in the Territory for the National Park Service, including the construction and maintenance of the Mount McKinley National Park Highway, authorized by the act of Congress approved April 9, 1924.

Consolidation of road work under the board.—From the foregoing it will be noted that all road and trail work in the Territory of Alaska, including work supported by appropriations of the Territory, of the War Department, and of the Department of the Interior, but excluding the former projects of the board in the national forests now supported by appropriations of the Department of Agriculture, is consolidated under the direction of the board.

Effect of improvement.—The roads and trails constructed by the board have not only opened up to development nearly all sections of the Territory but have effected large savings in freight charges. The major portion of this freight would not have been transported without the roads, and the indirect loss that would have been occasioned by the restriction on output and development if the roads did not exist can not be estimated.

The use of automobiles is increasing rapidly. Approximately 90 per cent of the traffic on the main wagon roads is handled by motor, which has greatly increased the cost of road maintenance. The use of tractors for drawing freight, particularly on the sled roads of the interior, is a valuable new development.

Operations and results during fiscal year.—The work in the last fiscal year was largely directed to maintaining the existing system and the improvement of the more important routes for the use of motor vehicles. New construction was confined to a few major projects upon which work has been in progress for several years.

The work accomplished during the fiscal year may be summarized as follows:

New construction: 37 miles road, 38 miles trail, 780 linear feet bridges over

New construction: 37 miles road, 38 miles trail, 480 linear feet bridges over 60-foot span, 11 airplane landing fields, and 14 shelter cabins.

Improvement: 58½ miles road reconstructed, 66½ miles road surfaced, 2 miles Tolovana tramway rebuilt, and numerous small bridges and culverts rebuilt.

Maintenance: 1,342½ miles road, 85 miles tramway, 905¼ miles sled road, 4,277¼ miles permanent trail, 314 miles temporary flagged trail, 736 miles telephone lines, 29 airplane landing fields, and 40 shelter cabins.

Total for all classes of work: 7,1261/4 miles consisting of 1,5041/4 miles of road, 87 miles tramway, 9051/4 miles sled road, 4,3151/4 miles of permanent trail, 314 miles temporary flagged trail.

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The more important roads upon which new construction was performed were the McCarthy-Nizina, Chatanika-Circle, Mount McKinley National Park, Gulkana-Chistochina, Long-Poorman, Haines-Chilkoot, Kasilof, Iliamna, Circle Hot Springs, and Nome-Council. The bridge renewal program was continued. The more important structures upon which new construction or extensive repairs were performed included bridges across Chistochina River, Noyes slough, and East Fork.

The important Richardson Highway was maintained open during the entire season. Improvement to new standard was continued and except for a few short sections this road is now in excellent condition for auto traffic. As a result of the rapid improvement both local and tourist travel have continued to increase. During the 1930

season tourist travel began in June.

Surfacing of the Steese Highway was continued. As a result of the improvement traffic over this route continued to increase. Dur-

ing the 1930 season travel began over this route in May.

Construction of the road from Gulkana on the Richardson Highway to Chisana, through the mineralized belt north of the Wrangell Mountains was continued. This is now the major new project under construction. Grading is in progress and should be continued to open up hitherto inaccessible mineral deposits.

Work was started late in 1929 and an unusual amount of precipitation during the summer greatly retarded the progress of the work.

The total expenditures during the fiscal year amounted to \$1,256,349.65, of which \$515,093.39 was for new work and \$741,256.26 was

for maintenance and improvement.

Condition at end of fiscal year.—The work of maintenance and improvement during the fiscal year, provided additional mileage with a light surface and a large part of the roads are now suitable for the present traffic. Additional mileage requires surfacing to provide for increasing motor traffic.

The total expenditures to the end of the fiscal year, June 30, 1930, amounted to \$14,532,308.63, not including outstanding liabilities or contributed funds, of which \$7,969,443.90 was expended for new construction and \$6,562,864.73 for maintenance and improvement.

struction and \$6,562,864.73 for maintenance and improvement.

Proposed operations.—Eight hundred thousand dollars was provided by the act of May 28, 1930. These funds will be expended on maintenance and improvement of the existing system and some new work. Surfacing of the recently graded Fairbanks-Circle Road will be continued and construction of new mileage on the Gulkana-Chisana and several minor projects will be accomplished. Unless much greater annual appropriations are made, little of the much needed new mileage can be constructed and but little can be done to meet the pressing need for extensions and improvements to the system as a whole.

Amount which can be profitably expended during the fiscal year ending June 30, 1932.—An appropriation of \$1,056,000, in accordance with the 1929 program, could be profitably expended on the work during the fiscal year 1932. This sum will provide for reasonable maintenance and improvement of the existing system and for construction of some much needed new mileage on adopted projects.

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These funds will be distributed approximately as follows:

	Maintenance and improvement of existing projects							
District	Mileage existing system			(a) Required	Average per mile			
	Roads	Sled roads	Trails	from War Depart- ment ap- propriation	Roads	Sled roads	Trails	
Southeastern Bethel	7014	26	26 985	\$21,460 8,900	\$300	\$40	\$15 8	
EagleValdez	29 1051⁄4	1741/4	388	15, 790 63, 100	300 600	25	7	
Chitina Fairbanks	273 6191/	887	509 1, 160	152,750 211,750	550 300	20	7	
SouthwesternKuskokwim	246 85	186 821/2	458 1,147)		1 300 300	20 20	. 5 5	
Nome	275	50	2 3, 169	82, 450	250	20	4	
Total	1, 708	1,405%	7,84214	_ 656,000	349	21	6	

Exclusive of the cost of work on Mount McKinley Park Road, 43 miles, which is borne by the National Park Service.
 Includes 712 miles temporary flagged trails.

Estimated revenue from Alaskan sources	230.	000
Total cost maintenance and improvement	886.	000

District	(b) Approved projects already under way	(c) Approved projects not yet started	(d) New projects likely to develop	Total (b), (c), and (d)	Grand total of estimates (a), (b), (c), and (d)
Southeastern Bethel Eagle					\$21,460 8,900 15,790
Valdez Chitina	\$250,000		\$50,000	\$300,000	63, 100 452, 750
Fairbanks Southwestern Kuskokwim	30, 000 20, 000	\$50,000		80,000 20,000	291, 750 86, 9 0 0 32, 900
Nome					82, 450
Total	300,000	50,000	50,000	400, 000	1,056,000

COMMERCIAL STATISTICS

Total commerce of Alaska for the calendar year 1929:

IMPORTS

Merchandise from the United States Merchandise from foreign ports Silver and gold from foreign ports	955, 273 480, 885
Total imports	34, 655, 723
EXPORTS	
Merchandise to the United States Merchandise, gold, and silver to foreign ports Domestic gold and silver to the United States Foreign gold and silver to the United States	607, 952 7, 408, 495 479, 049
Total exports	
Grand total, exports and imports	106, 718, 396
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Exports declined \$2,787,245, or 4 per cent, from the corresponding figure for 1928. This decrease is entirely due to decreased exports of canned salmon.

Imports increased \$2,018,890, or 6 per cent, over the corresponding

figure for 1928.

The value of Alaska's mineral output in 1929 was \$16,105,000 as

compared with \$14,061,000 in 1928.

Minerals were produced in the following order of value: Gold,

copper, coal, silver, lead, marble, tin, petroleum, and platinum.

Production of gold again exceeded in value that of copper. While the quantity of copper produced shows a decrease, the value increased \$1,268,000, or 21 per cent. Gold production exceeded that of the previous year \$903,000, or 13 per cent. This was due to increased production by large dredges from interior placer deposits and to increased production from lode mines in southeastern Alaska.

There are still large areas in Alaska not adequately prospected, and many promising properties are lying idle because of lack of capital for the necessary equipment. The shortage of enterprising prospectors is a serious drawback that has resulted because wages for comparable work are actually lower in Alaska than in the States, though expenses are higher. As a consequence Alaska does not attract or hold the class of prospectors it formerly did.

The production of coal showed a slight decrease in 1929 compared to that of the preceding year. The output was furnished mainly by the Evan Jones and Premier mines in the Matanuska region and the

Suntrana mine in the Healy River field.

In 1929, as in the past, all the petroleum produced in Alaska was obtained from about a dozen small wells in the Katalla field, on the only patented tract of oil land in the Territory. These wells and a small refinery are operated by the Chilkat Oil Co., which sells its gasoline and distillate in the local market.

The 1929 production of canned salmon, while above the average, showed a decrease of over 11 per cent compared to the previous year.

The relative value of the chief fish products exported in 1929 is as follows: Canned salmon, fresh and frozen halibut, cured or preserved salmon, fish oil, cured or preserved herring, fish meal, fresh

and frozen salmon, shrimps, clams, cured or preserved cod and crabs.

Additional duties of the board.—The president of the board is also district engineer for the Juneau, Alaska, river and harbor district. The other two members of the board are placed under the immediate orders of the district engineer, and the secretary and disbursing officer of the board is disbursing officer for the district.

The president of the board, in addition to his other duties, has under the provisions of acts of Congress approved June 17, 1910, and June 15, 1917, been detailed for consultation or to superintend the construction or repair of any aid to navigation authorized by Congress in the sixteenth (includes Territory of Alaska) lighthouse district.

Effective November 14, 1921, the president of the board was appointed consulting engineer for the Territory and assumed direct charge of all Territorial public works. In May, 1923, he was appointed director of public works for the Territory. Expenditures. \$180,080.15.

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By informal arrangement, effective April 1, 1922, the president of the board has agreed to act for the National Park Service, Department of the Interior, on certain matters relating to the improvement of the Sitka National Monument and the development of Mount McKinley National Park. Expenditures, \$161,432.96.

At the request of the Quartermaster General of the Army, the board has agreed to assume charge of the administration of the Sitka National Cemetery, created by Executive order of June 12, 1924.

Expenditures, \$1,499.08.

By direction of the Secretary of War the board has undertaken the regulation of Lowell Creek, Alaska, for the protection of Government property adjacent thereto, as provided in act of Congress approved March 23, 1928. Expenditures, \$3,482.81.

By authority of the Chief of Engineers the board has undertaken

the supervision of the construction work and operations of licensee, including stream gaging, connected with the power development on Eklutna River, Alaska.

At the request of the commanding general, Ninth Corps Area, the board has undertaken a survey and report on the water supply for

Chilkoot Barracks, Alaska.

At the request of the several departments interested the board has undertaken the construction of a float for Government boats at Juneau.

Financial summary

Amount expended on all projects: From Federal funds, including receipts from sales, etc., to June 30, 1929\$1: Net expenditures, 1930	1, 076, 269. 50	\$14 , 532, 308. 63
From contributed funds, including re- receipts from sales, etc., to June 30, 1929. Net expenditures, 1930	1, 273, 132. 38 180, 080. 15	1, 453, 212, 53
	-	15, 985, 521. 16
Total for new work Total for maintenance and improvement		
Total expendedBalance unexpended		15, 985, 521. 16 896, 998. 10
Grand total to be accounted for		16, 882, 519. 26
Appropriations to June 30, 1930: Construction and maintenance of military and bridges, and trails, Alaska Wagon roads, bridges, and trails, Alaska fund. Construction of wharf at Juneau Flood control of Lowell Creek Flood control of Lowell Creek (contributions) Increase of compensation, War Department National cemeteries Roads and trails, national parks Contributed funds (by Territory of Alaska and Adjustments to June 30, 1929 (reimbursements sales, etc.)	d others)	10, 950, 600, 00 3, 596, 870, 70 22, 500, 00 100, 000, 00 25, 000, 00 95, 059, 50 4, 841, 00 491, 000, 00 1, 432, 610, 82 164, 037, 24
Total		16, 882, 519. 26

Fiscal year ending June 30	1926	1927	1928	1929	1930
Expended for new work 1 Expended for maintenance and	\$828, 045. 38	\$706, 792. 46	\$43 0, 923. 16	\$680, 546. 9	\$515, 093. 39
improvement	483, 272, 31	510, 374, 43	822, 745. 02	816, 616. 9	6 741, 256. 26
Total expended (net)	1, 311, 317. 69	1, 217, 166, 89	1, 253, 668. 18	1, 447, 163. 9	1, 256, 349. 65
Appropriated by War Department acts. Allotted from Alaska fund. Contributed by Territory of Alas-	900, 000. 00 137, 431. 66	1, 022, 500. 00 142, 905. 28	825, 000. 00 73, 653. 64	800, 000. 0 150, 432. 6	
ka and others	136, 318, 11	93, 772. 39	210, 852. 74 100, 000. 00	213, 412. 7	7 188, 449. 87
(contributions) National cometeries Roads and trails, national parks	302.17	800. 00 16, 000. 00	25, 000. 00 792. 83 60, 000. 00	1, 000. 0 65, 000. 0	1, 646. 00 220, 000. 00
Total			1, 295, 299. 21	1, 229, 845, 4	
From 1925 to 1927, inclusive, the which for subsequent years are including 1, 1929, available bala Amount appropriated by 28, 1930	ince War Depa	Maintenance a rtment, act	approved	nt." May	\$726, 494. 02 800, 000. 00
Amount accrued to Alaska	fund duri	ng fiscal ye	ar 1930		216, 757. 86
Amount contributed by Te National cemeteries, 1929.					188, 449. 87 176, 00
National cemeteries, 1930.					1, 470, 00
Roads and trails, national					220, 000. 00
Total resources				- 2	153, 347, 75
June 30, 1930, net amount year: New construction Maintenance and im		·	\$515,00	6. 26	256, 349. 65
July 1, 1930, baland July 1, 1930, outstanding	ce unexpen liabilities	ded			896, 998. 10 357, 327. 23
July 1, 1930, balanc	e unobligat	ted			539, 670. 87
Amounts available on Jun From War Departmen From War Departme	t, act appr	oved May 2			653, 002. 46
flood control, Lowel	il Creek, A	laska	. 20, 1020		9, 518. 88
From Alaska fund	·				160, 182, 15
From funds contribut	ted				
From national cemete					14, 969, 72
From roads and trails	ries				
	ries s, national	parks			14, 969, 72 146, 20
From roads and trails	ries s, national or fiscal yea red to be a	parks r ending Ju	ine 30, 1931	l	14, 969. 72 146. 20 59, 178. 69
From roads and trails Amount available fo Amount (estimated) requi	ries s, national or fiscal yea red to be a	parksr ending Ju	ine 30, 1931	etion 4,	14, 969. 72 146. 20 59, 178. 69 896, 998. 10
Amount available for Amount (estimated) required existing projects	ries s, national or fiscal yea red to be a tably expen	parks r ending Ju ppropriated	ine 30, 1931 I for complement	etion 4,	14, 969. 72 146. 20 59, 178. 69 896, 998. 10 675, 000. 00 400, 000. 00
Amount available for Amount (estimated) required existing projects	ries s, national or fiscal yea red to be a tably expen	parks r ending Ju ppropriated	ine 30, 1931 I for complement	etion 4,	14, 969. 72 146. 20 59, 178. 69 896, 998. 10 675, 000. 00
Amount available for Amount (estimated) required existing projects	ries s, national or fiscal yea red to be a tably expen-	parksnr ending Ju	ine 30, 1931 I for complement	etion 4,	14, 969. 72 146. 20 59, 178. 69 896, 998. 10 675, 000. 00 400, 000. 00

¹ Exclusive of available funds.

APPROPRIATIONS

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1. Construction and maintenance of military and post roads,
    bridges, and trails, Alaska:
      Total amount appropriated to June 30,
       1920 (see detailed statement on p. 2105,
Annual report of the Chief of Engi-
       neers, 1920) ______$3, 370, 000. 00
      Act of-
         June 30, 1906______
                                          <sup>1</sup> 35, 000, 00
                                          425, 000. 00
465, 000. 00
         June 30, 1921______
         June 30, 1922_____
         Mar. 2, 1923______
June 7, 1924______
                                         3 650, 600, 00
                                          725, 000, 00
         Dec. 6, 1924_____
                                          * 55, 000. 00
         Feb. 12, 1925_____
                                          900, 000, 00
         Apr. 15, 1928 900, 000. 00
Feb. 23, 1927 1, 022, 500. 00
Mar. 23, 1928 825, 000. 00
         Mar. 23, 1928, flood control, Lowell
         100,000,00
                                          800, 000. 00
800, 000. 00
           Total __
                                        ----- $11, 073, 100. 00
2. Construction and maintenance of wagon roads,
    bridges, and trails, Alaska fund, act of Con-
    gress approved Jan. 27, 1905, as amended by
    an act approved May 14, 1906:
     Total receipts to June 30, 1920 (see de-
       tailed statement on p. 2106, Annual Report of the Chief of Engineers, 1920)___
                                        2, 128, 569, 89
     Fiscal year-
         1920 (supplementary)_____
                                          153, 805, 19
                                          98, 437, 82
135, 975, 05
         1921 _____
         1922 _____
                                          119, 227, 10
         1923 _____
                                          115, 803. 20
         1924 _____
                                         123, 871, 33
137, 431, 66
         1925 _____
         1926 _____
         1927 _____
                                          142, 905, 28
         1928 ______
                                          73, 653. 64
         1929 _____
                                          150, 432. 68
         1930 _____
                                          216, 757, 86
                                                     3, 596, 870, 70
3. Increase of compensation, War Department:
      Fiscal year-
        1918
        1919 ______
1920 _____
        1921 ______
1922 _____
                                             940.00
                                           4, 322, 09
        1923 _____
                                          32, 846, 67
        1924 _____
                                          56, 805, 54
                                                       95,059.50
```

¹ For Fairbanks-Council survey.

² Includes \$600 for survey of Juneau Wharf.

³ Deficiency to cover increase of compensation, 1925.

⁴ Includes \$22,500 for Juneau Wharf.

4.	National cemeteries:	
	Fiscal year—	
	1925 \$30	2. 17
	1926 30	0.00
		0. 00
	1928 793	2. 83
	1929 1, 176	
	1930 1, 470	0. 00
	Total	\$4, 841. 00
ĸ	Roads and trails, national parks:	Ψ1, σ22, σσ
υ,	Act of—	
	Mar. 3, 1925 80,000	0. 00
	May 10, 1926 50, 00	
	Jan. 12, 1927 16, 00	
	Mar. 4, 192860, 000	
	Mar. 4, 192965,000	
	May 14, 1930 220, 000	
	Total	491, 000. 00
	Total Federal appropriations	15, 260, 871, 20
	CONTRIBUTED FUNDS	
	(Act of Congress approved June 30, 1921, Alaska	special fund)
1.	By the Territory of Alaska:	
	Fiscal year—	
	1920\$115, 51	7. 94
	1921 113, 740	
	1922 54, 73'	7 . 28
	1923 112, 013	
	1924 106, 32	5. 35
	1925 78, 978	8, 45
	1926 133, 496	9. 10
	1927 88, 01	5. 7 6
	1928 191, 36	3. 59
	1929 189, 989	2. 45
	1930 170, 480	0. 64
	Motol .	91 954 660 05
0	TotalBy others:	\$1,354,660.05
۷,	Fiscal year-	
	1922 1, 68	9 77
	19231, 379	
	19244, 540	
		3. 12
	1926 2, 819	
	1927 5, 750	
	1928 19, 489	
•	1929 23, 430	
	1930 17, 969	9. 25
	Total	77, 950. 77
3.	Funds contributed for the control of Lowell Creek, Alask	ka 25, 000. 00
	Total contributed funds	1, 457, 610, 82
	Grand total, all funds	
	Grand total, all funds	10, 110, 402. 02

Lytle Brown,
Major General, Chief of Engineers.

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