

ER-1-721

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BUREAU OF MINES

NIS mineral program 1951-52 (exclusive of petroleum) \$ 92,000

Estimate for 1950-51 *DOI Waiver Letter In ERU File*

<u>Production</u>	- 8 country surveys @ \$8,500	68,000
<u>Maintenance</u>	- 24 countries @ \$1,000	24,000
<u>Total</u>	\$ 92,000

Justification

Production. - Funds requested for 1951-52 are based on the proposed program calling for completion of 8 reports on areas of average difficulty. Costs are based on the experience gained to date on 20 areas, details of which are given in the attached tabulation. Because so few of the reports have reached completion it is necessary to estimate ultimate costs on the basis of expenditures to date, and the status of each area study on May 1, 1950 in terms of percentage completed. The costs shown cover only the work done on Solid Fuels, Metals, and Minerals. The costs of the sections on Petroleum and Natural Gas have averaged 32 percent of those of the other minerals.

The estimated average cost of completed reports on the 20 areas now under study is \$6,100 per country. However, this group includes several areas where unit costs were exceedingly small owing to the fact that the mineral economy is of little significance, such as Okinawa, Egypt, Greenland, Iceland, and Iraq. Consequently the average cost of the 20 areas does not present a fair basis for determining expenditures required to complete reports on countries of average complexity. It is believed that the costs on Sweden, Yugoslavia, Portugal, and the United Kingdom - countries with moderate or substantial industry - present a more accurate appraisal of costs for areas of average difficulty. These averaged \$8,500, and this figure is used as a basis of estimating 1951-52.

Some reduction in operating costs may be expected as a result of experience gained to date, but the research conducted so far has demonstrated serious deficiencies in available information on certain points particularly pertinent to NIS uses. It is believed that any savings gained from experience will be offset by the added cost of research needed to provide reports that more closely meet NIS standards.

Maintenance. - As of July 1, 1951 preliminary drafts of reports on 24 countries will have been completed. Thus for the fiscal year 1952 the maintenance program will include 24 areas. Because many of the countries included in the group of 24 to be kept under surveillance published very inadequate data on their mineral economy or have discontinued publication of any data, the research required to support reliable appraisal of developments in these areas is exceedingly high. For example, minimum maintenance costs for Russia will exceed \$10,000 per annum. On the other hand maintenance costs on several areas will be relatively small. Average maintenance costs for NIS objectives only are estimated at \$1,000 per country per year, and this figure is believed to be conservative if anything more than a casual appraisal of developments is desired.

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The funds requested will be expended approximately as follows:

Personal Services Departmental

1/12 Regional Director, GS-15 @ \$10,000	\$ 833
1/3 International Mineral Trade Consultant, GS-15 @ \$10,000	3,333
1/2 International Mineral Trade Consultant, GS-14 @ \$8,800	4,400
2 Mineral Economists, GS-13 @ \$7,600	15,200
4 Commodity Specialists (Minerals), GS-12 @ \$6,400	25,600
2 " " " GS-11 @ \$5,400	10,800
1 " " " GS-9 @ \$4,600	4,600
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Total professional	\$64,766
1 Statistician, GS-7 @ \$3,825	3,825
2 Research Assistants, GS-5 @ \$3,100	6,200
4 Clerk-Stenographers, GS-4 @ \$2,875	11,500
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Total personal services	\$ 86,291

Other Obligations

Periodic pay increases, supplies, materials, travel, etc.	5,709
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Total	\$ 92,000

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NIS Costs - Solid Fuels, Metals, & Minerals Sections - As of May 1, 1950

Project	Man-hour Costs to date 2/				Total cost	Percent completed	Estimated Ultimate Total Cost
	Professional		Clerical				
	Man-hours	Cost	Man-hours	Cost			
27	825	\$2531	205	\$ 303	\$ 2834	100	\$ 2834
41	1632	5007	876	1294	6301	100	6301
11	1953	6292	2514	3715	10007	100	10007
30	394	1198	402	601	1799	99	1817
33	1627	4876	983	1566	6442	97	6630
68	356	1054	186	317	1371	93	1482
40	592	1803	279	435	2238	92	2432
26	5228	16681	2743	4296	20977	91	23022
86	1675	5339	573	847	6186	90	6873
49	712	2159	498	806	2965	90	3294
67	220	656	39	65	721	90	801
45-S	132	405	20	30	435	80	540
53	470	1436	552	816	2252	76	2962
8	1446	4409	972	1469	5878	75	7837
94	2551	7931	738	1202	9133	72	12644
21	1045	3112	158	271	3383	53	6326
1	477	1464	98	145	1609	15	10436
39	252	774	274	405	1179	15	7868
4	172	528	19	28	556	12	4641
10	48	144	--	--	144	8	1715
Total	21,807	\$67,799	12,129	18,611	\$86,410	72	\$120,462

1/ Includes only costs billed to CIA

2/ Average: Section 62 - Solid fuels - Professional, \$3.027 per hour; clerical, \$1.765 per hour
Section 63 - Metals and Minerals - Professional, \$3.136 per hour; clerical, \$1.478 per hour

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**Summary Budget Estimate, Fiscal Year 1952
Special Research Unit
Branch of Commercial Fisheries
Fish and Wildlife Service**

Base for fiscal year 1951:

(1) Amount for fiscal year 1950	\$30,000	
(2) Periodic pay increases	600	
(3) Public Law 429 increases	810	
(4) Current maintenance of reports prepared as of June 1950	<u>4,590</u>	
Total 1951 base	\$36,000	\$36,000

Increase over 1951 base:

Periodic pay increases	<u>\$ 600</u>	
Total increases	600	<u>\$ 600</u>

Total 1952 budget estimate - \$ 36,600

Utilization of funds:

For production of basic reports	\$ 31,885
For maintenance	<u>4,715</u>

Total 1952 budget estimate - \$ 36,600

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CONFIDENTIAL**Personal Services:**

1 Branch Chief, GS-14 (4 pay periods), Supervisory	\$1,354	
1 Asst. Branch Chief, GS-13 (5 pay periods), Supervisory	1,461	
1 Commodity Industry Economist, GS-11	5,600	
1 Fishery Products Technologist, GS-11	5,600	
1 Fishery Research Biologist, GS-11	5,600	
3 Clerk stenographers, GS-4	9,585	
1 Graphics Analyst, GS-7	3,825	
Periodic pay increases	<u>600</u>	
Total salaries	\$33,625	\$33,625

Other expenses:

Travel	\$ 1,700	
Supplies and materials	750	
Communications	75	
Equipment	<u>450</u>	
Total	\$ 2,975	\$ 2,975
Total 1952 budget estimate		\$36,600

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Experience, to date, based largely on the 1950 fiscal year indicates the total number of man-hours required at the working level for each basic report, exclusive of maintenance and revision, is about 1,560 hours; and at the supervisory level about 90 hours. Including expenses for equipment, travel, supplies, communications, etc., total cost for preparation of 8 basic reports in 1952 will be about \$32,000, or \$4,000 per area (Enclosure I). Deadline dates for submitting the reports completed in fiscal year 1949 were spaced too closely to permit sufficient time for adequate checking of sources and for ferreting out difficult material. The full complement of personnel necessary to carry out properly all assigned projects was not obtained until fiscal year 1950. Considerable overtime work in meeting deadline dates was, therefore, required of the 1949 staff. Also, note that supervisory time as well as the overtime of the working level personnel was not charged against the project.

The only increased costs for production of basic reports in fiscal year 1952 are for pay increases provided by law. The small budget allowed for the fisheries work does not permit absorption of these salary increases.

Maintenance

The 15% maintenance allowance in the budget for 1951 fiscal year will be used to employ a graphics analyst for the purpose of preparing graphics which, in fiscal 1949 and 1950, were prepared in first drafts by the investigators themselves. The new employee will take the burden of this work away from the investigators, so that they are free to do maintenance and revision work. Whether or not revisions as such are required in fiscal year 1951, the investigators will need to keep abreast of developments in the areas completed. This graphics analyst will be retained in fiscal year 1952.

██████████ I.

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Cost for Production of Basic Reports (Revision not included).

	No. of areas	Working Level				Supervisory Level			Equip-ment	Communications supplies travel, books periodicals photostats	Total Cost
		Average man-hrs per report	Total man-hrs. required	Average cost per man-hour	Total time cost	Total man-hrs.	Average cost per man-hour	Total cost			
1949 fiscal year (actual)	5	1,031	5,254	\$1.74	\$ 9,134	*	*	*	416	\$1,000	\$10,550
1950 fiscal year (actual)	8	1,500	12,000	2.01	24,120	720	\$3.68	\$2,650	1,230	2,000	30,000
1951 fiscal year (est.)	8	1,560	12,480	2.11	26,385	720	3.91	2,815	210	2,000	31,410
1952 fiscal year (est.)	8	1,560	12,480	2.15	26,860	720	3.91	2,815	210	2,000	31,885

* Supervisory time given to project in fiscal year 1949 not charged to project.

** Includes \$600 for within-grade promotions, and \$810 for Public Law 429 increases above the \$30,000 base.

*** Deadline dates for submitting the reports completed in fiscal year 1949 were spaced too closely to permit sufficient time for adequate checking of sources and for ferreting out difficult material. The full complement of personnel necessary to carry out properly all assigned projects was not obtained until fiscal year 1950. Considerable overtime work in meeting deadline dates was, therefore, required of the 1949 staff. Also, note that supervisory time as well as the overtime of the working level personnel was not charged against the project.

**** Includes additional \$475 periodic pay increase.

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