

IN THE SENATE OF THE UNITED STATES.

JANUARY 26, 1883.—Ordered to be printed.

Mr. HALE, from the Committee on Appropriations, submitted the following

REPORT :

[To accompany H. Res. 323.]

*The Committee on Appropriations, to whom was referred the resolution (H. Res. 323) making appropriations for continuing the work of the Tenth Census, beg leave to report :*

The committee submit the following letters and tabular statements throwing light upon the present condition of the Census Bureau :

DEPARTMENT OF THE INTERIOR, CENSUS OFFICE,  
*Washington, D. C., January 23, 1883.*

SIR : In compliance with your request for a detailed estimate of the amount required within the present fiscal year for the continuance of the work of the Tenth Census, I have the honor to submit as follows :

The matter for the Compendium has all been prepared and placed in the hands of the Public Printer. Proofs are being rapidly read and revised, and if the facilities of the Government Printing Office will permit, bound copies of the Compendium of the Tenth Census may, without doubt, be in the hands of Congress at a date not later than February 5, while the entire edition of 100,000 copies authorized by law to be printed may be published within that month.

When all matters relating to the Compendium shall have been adjusted, the work of preparing for speedy publication the final quarto volumes of the report should be resumed, labor in this direction having been suspended by reason of the exhausted condition of our appropriation. There remains to be done, work on the following subjects :

First. General statistics relating to age and sex ; agriculture ; manufactures ; occupation, and mortality.

The work on these subjects will consist of the arrangement in tabular forms for the quarto volumes of results already attained in the preparation of the Compendium, together with all computations consequent upon the more elaborate and detailed presentation of these subjects in the quarto report. These computations and tabular arrangements having been completed, there will remain for these subjects only the preparation of such text as may be devoted to a discussion of the results. For this grouping it is estimated that the sum of \$50,000 will be required.

Second. Completion of reports of special agents on the following subjects :

- Fire and marine insurance in the United States.
- Private schools, libraries, and churches in the United States.
- Defective, dependent, and delinquent classes of the population.
- Wages used in manufacturing industry.
- Forestry and lumbering industry.
- Cotton culture in the United States.
- Cotton manufactures and ginning.
- Resources of Alaska.
- Social statistics of cities.
- Power used in machinery and manufactures.
- Statistics of the Indian tribes.
- Tobacco manufacture.
- Statistics of orchard fruits, and hops.

Fisheries of the United States.

Mining in the United States, east and west of the one hundredth meridian—two reports.

Wealth and taxation.

These reports, all commenced, some well advanced, and the greater number nearly finished, will, should the necessary funds be placed at the disposal of this office, be completed and ready for the Printer within four months.

It is estimated that for this branch of the work the sum of from \$20,000 to \$25,000 will be required.

Third. General work of preparing all reports, tables, illustrations, maps, &c., as copy for the Printer, with revisions, proof-reading, &c. For this will be required the sum of from \$12,000 to \$15,000.

Fourth. Superintendence, organization, correspondence, &c. For this the sum of, say, \$6,000 is estimated.

Fifth. Miscellaneous and contingent expenses, including rent of buildings, &c., \$4,000.

The general estimate of \$100,000 already made, is, in my judgment, a careful statement of the probable requirements of this office for the remainder of the present fiscal year.

An estimate has heretofore been submitted for the fiscal year ending June 30, 1884. This was based upon the probable time and cost involved in the indefinable and multitarious labors of closing up so great a public work as the Tenth Census, inclusive, as such labors would be, of the final classification and orderly arrangement of the enormous mass of schedules and other papers, as well as of the large correspondence in reply to inquiries, and to requests for special statistical statements which may be looked for during several months to come.

Due consideration was also given to the fact that several States had already signified an intention to take an inter-decennial census, in accordance with the provisions of the twenty-second section of the act of March 3, 1879, on which account certain duties would, by the terms of that act, devolve upon this office.

I may therefore add that the additional estimate heretofore made, of from \$75,000 to \$100,000, for the fiscal year ending June 30, 1884, would seem to be justified by a careful calculation.

Referring again, however, to the estimate for the balance of the current year, permit me to state that the estimates previously made of the amount which would be necessary for the completion of the work of the Tenth Census fell short of the sum required mainly by reason of two facts:

1. The underestimates submitted to the Superintendent by some of the special agents having charge of special branches of the general work, of the amounts which, it has since been shown, will be required to properly complete their investigations. These subestimates were made in perfect good faith, but were defective by reason of the very cause which is the second fact affecting the value of the general estimates by the Superintendent, to wit, the newness and originality of the scheme of the Tenth Census. Nothing like it having been heretofore undertaken, an estimate of the cost would not be based upon comparison.

As a third reason for previous underestimates it might be said that, actuated by a desire to confine the expense of the Census to the minimum, the later estimates were based somewhat upon an intention to curtail the proportions of some parts of the report, but further examination and reflection demonstrated the impracticability of so doing with advantage to any part, or without injury to the whole.

By a comparison with the cost of the Ninth Census, it might be seen that the Tenth Census has been conducted with as little, or perhaps less expense, relatively.

The total cost of the Tenth Census, exclusive of printing and engraving,	
has been.....	\$4,575,000
The total cost of the Ninth Census, exclusive of printing and engraving,	
was.....	3,336,000

An excess at the former of.....	1,239,000
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The increase in population during the decade between these two censuses was 30 per cent. Assuming the same scope of matter and relative increase only of volume for the report of the Tenth Census, the sum of \$4,500,000, or \$5,000,000, might well have been originally estimated as the probable cost of the tenth. But not only have the same subjects which constituted the scope of the ninth been treated at the tenth (and more exhaustively), but a vast diversity of matter, covering ground heretofore untrod in any government work, will form a very large and most valuable part of the report of 1880.

The Compendium of the Ninth Census was a volume of 900 octavo pages. The quarto and final report consisted of three volumes, and covered 2,400 pages.

The Compendium of the Tenth Census will be an octavo volume of 1,800 pages, and the quarto final report will cover not less than 16,000 pages.

This explanation seems to be not uncalled for at this time, in view of the fact that a further appropriation is asked for prior to the publication of any of the reports in final form. When these shall have been distributed, it is confidently believed that they will constitute their own perfect defense, and an ample justification for all expenditures of public care, time, and money.

In conclusion, I beg to say that the necessity of early action by the Congress upon our estimate is imperative to the realization of a present hope to complete the final report within the current fiscal year. The appropriation now available is almost wholly exhausted. If our request for an additional appropriation shall meet the favorable judgment of your committee, I take the liberty of submitting for your consideration whether the immediate action of the Senate might with propriety be solicited.

I have the honor to be, sir, very respectfully, your obedient servant,  
 GEO. W. RICHARDS,  
*Acting Superintendent of Census.*

Hon. EUGENE HALE,  
*Chairman of Select Committee on the Census, United States Senate.*

DEPARTMENT OF THE INTERIOR, CENSUS OFFICE,  
 Washington, D. C., January 26, 1883.

SIR: In response to your verbal request I have the honor to submit an estimate of the amount of money which will be required to complete the several special reports upon investigations which have been in the hands of special agents of this office:

Statistics of the mining industry east of the Mississippi River, Prof. Raphael Pumpelly, special agent in charge.....	\$540
Statistics of the mining industry west of the Mississippi River. Mr. G. F. Becker, special agent in charge .....	200
Statistics of the fisheries of the United States, Prof. G. Browne Goode.....	200
Social statistics of cities, Mr. Geo. E. Waring, jr., special agent in charge....	1,000
Statistics of Indians not taxed, Maj. J. W. Powell.....	5,000
Statistics of forestry and the lumbering industry, Prof. C. S. Sargent, special agent in charge .....	1,500
Statistics of power and machinery used in manufactures, Prof. W. P. Trowbridge, special agent in charge.....	500
Statistics of defective, delinquent, and dependent classes, Mr. F. H. Wines, special agent in charge.....	6,000
Statistics of the cotton culture, Prof. E. W. Hilgard, special agent in charge.....	1,500
Statistics of fire and marine insurance, Mr. Chas. A. Jenney, special agent in charge .....	1,500
Statistics of schools, churches, and libraries, Dr. H. R. Waite, special agent in charge .....	5,000
Statistics of orchard fruits, hops, and the manufacture of tobacco, J. R. Dodge .....	500
Statistics of the manufactures of glass and coke, and wages in manufacturing industries, Mr. J. D. Weeks, special agent in charge .....	500
Statistics of ship-building, Mr. Henry Hall, special agent in charge .....	250
Statistics of Alaska, Mr. Ivan Petroff, special agent in charge.....	150

Of the above-mentioned reports those of Messrs. Goode and Becker are now practically ready for the printer; that of Mr. Petroff in 30 days; that of Mr. Hall can be completed in 15 days; those of Messrs. Pumpelly, Sargent, and Trowbridge and Dodge within 60 days; that of Prof. Hilgard in about the same time; and those of Messrs. Waring, Weeks, Jenney, and Powell in less than 90 days. The remaining special reports, namely, those of Messrs. Wines and Waite, will be completed within four months, and this estimate includes the time and cost necessary for the compilation in the office of all statistical data which will form parts of these special reports.

Not less than 20,000 pages of manuscript for the final report are in this office which are ready for the Public Printer, and the work of putting such pages in type can be commenced whenever the work upon the compendium has been completed. Estimating five folios of manuscript to a printed quarto page, there is on hand material for not less than 4,000 printed pages of the final report. Before these could be put in type, and the printing office cleared for more copy, at least 15,000 additional pages of manuscript would be ready for his hands.

In a word, the different parts of the final report are now so well advanced that copy can be supplied quite as rapidly as the Public Printer may demand, and an answer to

the question of when the last of the reports of the Tenth Census will be published, depends almost wholly upon the facilities of the Government Printing Office and the ability of this office to employ sufficient force to read and revise proofs, &c.

No delay can arise by reason of the condition of any of the work in the hands of the special agents, nor by reason of any unfinished work in this office.

I am, sir, very respectfully, your obedient servant,

GEO. W. RICHARDS,  
*Acting Superintendent of Census.*

HON. W. B. ALLISON,  
*Chairman Senate Committee on Appropriations, U. S. Senate.*

PRESENT PAY-ROLL IN THE OFFICE IN WASHINGTON.

1 superintendent .....	\$5,000 00
1 chief clerk .....	2,000 00
6 clerks of class 4 .....	10,800 00
10 clerks of class 3 .....	16,000 00
14 clerks of class 2 .....	19,600 00
38 clerks of class 1 .....	45,600 00
12 clerks, at \$1,000 .....	12,000 00
13 copyists, at \$900 .....	11,700 00
26 copyists, at \$840 .....	21,840 00
5 copyists, at \$720 .....	3,600 00
2 copyists, at \$600 .....	1,200 00
1 messenger, at \$720 .....	720 00
1 messenger, at \$660 .....	660 00
3 messengers, at \$600 .....	1,800 00
2 messengers, at \$480 .....	960 00
1 watchman, at \$720 .....	720 00
2 watchmen, at \$600 .....	1,200 00
2 watchmen, at \$480 .....	960 00
1 laborer, at \$720 .....	720 00
1 laborer, at \$600 .....	600 00
4 laborers, at \$480 .....	1,920 00
1 laborer, at \$1.50 per day .....	547 50
1 laborer, at \$1.25 per day .....	456 25
6 laborers, at \$1 per day .....	2,190 00
1 laborer, at \$15 per month .....	180 00

REPORTS FOR THE TENTH CENSUS.

*Quartos published.*

	Pages.
Statistics of population, Part I .....	466
Public indebtedness .....	668
Cotton production in Louisiana .....	104
Oyster industry .....	254
Seal Islands of Alaska .....	178
Iron and steel production .....	1 0
Manufactures of silk .....	36
Manufactures of the twenty largest cities .....	34
Fire-arms and ammunition .....	44
Production of the precious metals (statistical) .....	94
Railroads of the New England group .....	46
Social statistics of New Orleans and Austin .....	102
Water-power of the South Atlantic watershed .....	166
Courts of criminal jurisdiction .....	38
Areas of the United States .....	20
Tables showing cereal production .....	36
Tables showing cotton production .....	6
Tables showing rice production .....	4
Tables showing sugar-cane production .....	4
Statistics on life insurance .....	74

*Quartos in composition.*

	Stereo-typed.	In type.	Not in type, (estimated.)	Total.
State and municipal taxation and valuation.....	200		100	300
Cotton culture of Florida.....		70	20	90
Mining laws.....	687		200 (3)	887
Steam pumps and engines.....	68		2	70
Cereal crops of the United States.....	165	10	4	179
Tobacco culture of the United States.....	166		170	336
Meat production in the West.....	90		160	250
Newspapers and periodicals.....	180	70	150	400
Water-power of the Northwest watershed.....		93	10	103
Total.....	1,556	243	816	2,615

*Manuscript in hand.*

Pages estimated.

Cotton culture of Georgia.....	150
Cotton culture of Alabama.....	100
Cotton culture of Texas.....	125
Cotton culture of Arkansas.....	100
Whale fisheries.....	200
General fisheries.....	1,000
Flour milling and machinery.....	30
Woolen manufacture.....	40
Chemical manufacturing industry.....	80
Petroleum.....	500
Mining east of one hundredth meridian (catalogue of mines).....	140
Railroad statistics.....	500
Social statistics of Boston.....	100
Manufactures of interchangeable mechanism.....	250
Water-power of the Missouri River.....	200
Water-supply of cities and towns.....	200
Power used in manufacture of iron and steel.....	30
Water-power of the Middle Atlantic States.....	200
Alaska.....	250
Meat production in the United States.....	250
	4,195

*Manuscript not received from agents.*

Estimated pages.

Population, Part II.....	500
Occupations.....	200
Manufactures.....	500
Agriculture.....	750
Foreign parentage.....	75
Gas.....	25
Cotton manufactures and ginning.....	50
Cotton culture of Indian Territory and Missouri.....	80
Cotton culture of South Carolina.....	70
Glass and coke and wages.....	500
Production of the precious metals.....	500
Mining east of the one hundredth meridian.....	500
Ship-building.....	250
Steam craft and canals.....	150
Social statistics of one hundred and forty cities.....	1,000
Quarries, general statistics.....	300
Quarries of Ohio and Kentucky.....	50
Tobacco manufacture.....	100
Orchard, fruits and hops.....	50
Indian tribes.....	600
Defective, delinquent, and dependent classes.....	500
Education. } Libraries } Schools } Churches }	600
Postal telegraph.....	50

	Estimated pages.
Mortality .....	1,500
Fire and marine insurance.....	1,500
Life insurance (text) .....	10
Forestry and lumber .....	500
Factory system.....	200
Telegraphs—telephones .....	40

DEPARTMENT OF THE INTERIOR, CENSUS OFFICE,  
*Washington, D. C., January 23, 1883.*

SIR: I have the honor to transmit herewith a tabular statement showing the disbursements by this office of the sums appropriated by Congress for the work of the Tenth Census. By the recapitulation it will be seen that there remains an unexpended balance of \$22,063.92. But against this sum should be offset known outstanding liabilities amounting to nearly \$13,500, so that the net available balance in hand for the current expenditures of this office is about \$8,500. Our present daily expenses are \$548, exclusive of contingencies, rent, &c.

I have also the honor to transmit lists of the various reports, special and general, which will comprise the final reports of the Tenth Census.

I am, sir, very respectfully, your obedient servant,

GEO. W. RICHARDS,  
*Acting Superintendent of Census.*

Hon. EUGENE HALE,  
*Chairman of Select Committee on the Census, U. S. Senate.*

Statement of disbursements on account of the Tenth Census to January 15, 1883.

Ledger page.	Branch of investigation.	Name of person in charge.	Compensation.	Traveling ex- penses.	Stationery and printing.*	Furniture and fittings.	Rent and fuel	Miscellaneous.†	Pay of inter- preters.	Total.
25	Enumerators' accounts .....		\$2,093,651 95						\$1,524 28	\$2,095,176 23
22	Supervisors' accounts .....		128,252 87	\$2,296 85	\$399 02	\$16 75	\$970 00	\$2,553 91		134,489 40
97	Re-enumeration of Saint Louis.....	C. M. Woodward, supervisor .....	3,532 57	485 60	223 83		70 00	51 10	10 50	4,373 60
98	Re-enumeration of South Carolina.....	F. G. Butterfield and 4 assistants.....	1,446 00	2,264 57				15 50		3,726 07
5	Superintendent's office.....	Francis A. Walker and C. W. Sea- ton, superintendents.....	1,443,632 05	2,183 03	20,445 35	\$3,231 20	43,354 85	37,682 16		1,580,528 64
15	Manufacturing statistics of cities.....	345 special agents .....	84,005 53	2,211 89	143 38		1,693 33	105 06	72 00	88,231 19
31	Statistics of mining industries east of the Mississippi River.....	Prof. R. Pumpelly and 57 assist- ants.....	55,750 54	21,110 44	897 93	789 62	2,476 42	12,846 20		93,871 15
36	Statistics of mining industries west of the Mississippi River.....	Clarence King and 54 assistants ..	39,905 09	23,032 34	1,844 71	393 96	891 67	1,949 90		68,017 67
41	Statistics of fisheries.....	Prof. G. Brown Goode and 26 as- sistants.....	34,227 76	13,390 59	197 10		147 75	698 37		48,661 57
56	Statistics of meat production .....	Clarence Gordon and 13 assistants ..	22,744 49	13,612 22	507 88	193 58	7 00	484 37		37,549 54
79	Social statistics of cities .....	Col. G. E. Waring and 26 assist- ants.....	33,358 48	5,093 53	1,154 08	606 30	1,352 39	923 30		42,488 08
48	Statistics of Indians not taxed.....	Maj. John W. Powell and 4 assist- ants.....	31,747 30	6,978 49				151 94	377 75	39,255 48
104	Statistics of forestry and the lumber in- dustry.....	Prof. C. S. Sargent and 24 assist- ants.....	24,057 01	7,794 28	10 00			1,811 26		33,672 55
71	Statistics of wealth, debt, and taxation ...	Robert P. Porter and 2 assistants ..	21,064 27	7,174 00	8 50	75 00		183 44		28,505 21
106	Statistics of power and machinery used in manufactures.....	Prof. W. P. Trowbridge and 8 as- sistants.....	16,340 30	12,978 51	98 00	65 51	440 00	852 24		30,774 56
110	Statistics of defective, delinquent, and dependent classes.....	Rev. F. H. Wines and 3 assistants ..	22,815 47	4,716 73	88 60			85 93		27,706 73
105	Statistics of cotton culture .....	Prof. E. W. Hilgard and 14 assist- ants.....	19,730 34	2,781 84	7 50			395 83		22,915 51
103	Statistics of fire and marine insurance ....	Charles A. Jenney .....	28,496 55	2,552 80	270 61	102 00	177 00	384 07		31,983 03
95	Statistics of schools, churches, and libra- ries.....	Dr. Henry Randall Waite and 15 assistants.....	15,824 26	3,979 35	204 58	44 00		103 04		20,155 23
108	Statistics of orchard fruits, hops, and the manufacture of tobacco.....	J. R. Dodge and 14 assistants.....	10,455 70	1,181 37				12 25		11,649 32
82	Statistics of the manufacture of glass and coke and wages in manufacturing industries.....	Jos. D. Weeks and 4 assistants....	9,893 71	1,729 90	116 53	77 00	550 00	76 64		12,443 78

\* The items for stationery and printing herein contained refer to such only as have been paid out of the general appropriations. Specific appropriations of \$250,000 for engraving and printing have been made and used in payment of the bulk of expense for such purposes.

† Miscellaneous expenditures include the following items: "Expressage, postage-stamps, carpenters' tools, repairs, telegrams, carriage hire and hauling, boxes for packing (large item), car tickets, ice, books of reference, gas, &c.

Statement of disbursements on account of the Tenth Census to January 15, 1883—Continued.

Ledger page.	Branch of investigation.	Name of person in charge.	Compensation.	Traveling ex- penses.	Stationery and printing.*	Furniture and fittings.	Rent and fuel.	Miscellaneous†	Pay of inter- preters.	Total.
91	Statistics of the quarrying industries of the United States.	Dr. George W. Hawes (deceased) and 19 assistants, succeeded by F. W. Sperr and Thomas Kelley.	13,568 22	5,922 61	.....	.....	.....	120 75	.....	19,611 58
63	Statistics of the tobacco culture .....	Prof. J. B. Killebrew and 5 assistants.	6,600 68	1,171 55	.....	36 00	117 00	22 95	.....	7,948 18
18	Vital and mortuary statistics .....	C. S. Mixter and W. A. King .....	5,809 96	234 17	.....	.....	.....	5 80	.....	6,049 93
61	Statistics of silk industry .....	W. C. Wyckoff and 1 assistant .....	6,384 50	979 34	12 80	.....	.....	4 20	.....	7,380 84
72	Statistics of the production of cereals .....	Prof. William H. Brewer .....	3,906 89	1,239 55	.....	.....	.....	.....	.....	5,146 44
58	Statistics of railroad transportation, express, and telegraph companies.	J. H. Goodspeed and R. P. Porter and 2 assistants.	2,547 00	1,149 30	.....	.....	.....	.....	.....	3,696 30
85	Statistics of Alaska, its population, industry, and resources.	Ivan Petroff and 1 assistant .....	5,179 66	2,797 44	14 00	.....	.....	25 00	.....	8,016 10
75	Statistics of newspapers and the publishing interests.	S. N. D. North .....	4,603 00	703 96	42 50	.....	22 00	32 31	.....	5,403 77
64	Statistics of the movement of population.	Henry Gannott and 1 assistant .....	2,557 28	1,045 72	.....	.....	.....	.....	.....	3,603 00
96	Statistics of the production of petroleum.	Prof. S. F. Peckham .....	5,831 00	1,277 63	59 83	.....	.....	102 57	.....	7,271 03
83	Statistics of the manufacture of iron and steel.	James M. Swank .....	2,803 25	152 25	48 50	.....	.....	58 40	.....	3,062 40
88	Statistics of the manufacture of wool ....	George William Bond and 1 assistant.	2,919 48	93 20	.....	14 65	240 00	1 36	.....	3,268 69
80	Statistics of the chemical manufacturing industry.	Henry Bower and 2 assistants .....	2,196 80	810 26	.....	.....	.....	22 75	.....	3,029 81
89	Statistics of the factory system of the United States.	Carroll D. Wright .....	4,085 49	690 59	.....	.....	.....	.....	.....	4,776 08
74	Statistics of the ship-building .....	Henry Hall .....	4,034 00	1,476 33	.....	.....	.....	12 00	.....	5,523 33
102	Miscellaneous investigations, embracing sundry re-enumerations of counties in Iowa, Maryland, and other States.	.....	593 06	.....	.....	.....	.....	.....	.....	593 06
66	Statistics of the manufacture of cotton ....	Edward Atkinson .....	1,038 50	3 55	.....	.....	.....	.....	.....	1,042 05
	Total .....	.....	4,215,591 01	157,295 78	26,795 23	35,645 57	52,509 41	61,774 60	1,984 53	4,551,596 13



RECAPITULATION.

Total appropriation, exclusive of printing and engraving.....	\$4,575,000 00
Amount expended as per statement above.....	4,551,596 13
Balance.....	23,403 87
Less railroad accounts submitted to Treasury Department (not posted) .....	1,339 95
Balance on hand.....	22,063 92

\* The items for stationery and printing herein contained refer to such only as have been paid out of the general appropriations. Specific appropriations of \$250,000 for engraving and printing have been made and used in payment of the bulk of expense for such purposes.

† Miscellaneous expenditures include the following items: " Expressage, postage-stamps, carpenters' tools, repairs, telegrams, carriage hire and hauling, boxes for packing (large item), car tickets, ice, books of reference, gas, &c.

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