
STATE OF IOWA

PART TWO

OF

REPORT OF THE

State Highway Commission

FOR THE YEAR

January 1, 1923 to January 1, 1924

ISSUED BY

STATE HIGHWAY COMMISSION

J. W. HOLDEN, Chairman

WM. COLLINSON,

ANSON MARSTON

Commissioners

AMES, IOWA

February 1, 1924

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PART TWO

Summary of Annual Reports of County Engineers

INTRODUCTION

This summary is prepared from the Annual Reports of the County Engineers of the ninety-nine counties of Iowa and submitted in accordance with the provisions of Section 1527-s2, SS 1915.

The County Engineers' reports include detailed statements all county expenditures for road and bridge work, and also detailed reports of township expenditures in so far as County Engineers were able to obtain data from Township Clerks.

Statements of expenditures are based on warrants issued by the County Auditors for the year 1923. The County Engineers obtain the information contained in their reports from the following sources:

(a) Total expenditures from County Bridge, County Motor Vehicle Road, and County Road Cash Funds, from County Auditor's Warrant Register; Detailed classification of these expenditures from County Engineer's Claim Register.

(b) Financial statement of the receipts and disbursements in above named funds, from County Treasurer's ledger.

(c) Statement of county's indebtedness from records of County Auditor and County Treasurer.

(d) Statement of classified expenditures from all township funds, and financial statement of receipts and disbursements in said funds, from annual reports of township clerks.

This report includes a general summary of the activities of the ninety-nine counties, and twenty-five summary tables showing in detail the expenditures for road work on the secondary system and all bridge work except the bridge construction and maintenance paid for out of Primary Road Fund, and the present financial condition of the several counties.

Summary of Financial Statement for Entire State

ANNUAL REPORT OF COUNTY ENGINEERS
 JANUARY 1, 1923 TO JANUARY 1, 1924

Total Expenditures.

During 1923, the counties and townships spent \$30,880,023.73 for road and bridge work on the 104,100 miles of road in the primary, county and township road systems. The total expenditure for both road and bridge work is an average of \$296.63 per mile on the total mileage above named. The total expenditure is \$672,350.89 or 2.2% less than the total expenditure reported for 1922. The expenditures are classified as follows:

Bridge work, on all roads.....	\$ 8,148,889.81
Road work on primary system	12,817,524.66
Road work on county system	3,864,782.83
Road work on township roads	6,048,826.43
Total	\$30,880,023.73

The expenditure for bridge work alone averaged \$78.28 per mile on the entire mileage of roads.

The expenditure for road work on the primary system averaged \$1,928.43 per mile. For road work on the county system an average of \$350.28 per mile and on the township road system \$69.99 per mile.

The following schedule compares expenditures for the past several years, according to purpose for which spent and according to the fund from which derived.

TOTAL EXPENDITURES FROM COUNTY FUNDS FOR ROAD AND BRIDGE WORK

	1919	1920	1921	1922	1923
Bridge work on both county and township roads	\$ 6,851,722.43	\$ 9,804,213.40	\$ 8,026,387.09	\$ 5,479,037.06	\$ 5,753,987.42
Bridge work on primary roads			1,278,965.02	1,910,492.49	2,394,902.30
Road work on primary roads	440,008.53	7,483,973.54	16,996,806.68	13,868,727.19	12,817,524.66
Road work on county roads	4,817,475.77	5,759,553.54	5,766,483.50	4,255,371.21	3,864,782.83
Road work on township roads	4,041,871.72	4,977,294.77	6,672,985.24	6,048,746.67	6,048,826.43
Totals	\$16,154,078.45	\$28,024,945.25	\$38,741,627.53	\$31,552,374.62	\$30,880,023.73

TOTAL EXPENDITURES FROM SEVERAL FUNDS

	1919	1920	1921	1922	1923
County bridge fund.....	\$ 5,827,432.14	\$ 9,110,498.77	\$ 7,667,738.40	\$ 5,330,215.39	\$ 5,619,176.75
Primary road fund.....	440,908.53	5,198,839.94	13,094,440.95	11,174,438.35	7,288,811.19
Primary road bond fund		1,189,670.16	3,136,602.17	2,305,093.53	2,742,362.24
Primary road special assessments		235,688.23	1,993,609.40	702,757.40	285,634.95
Primary road anticipation				1,178,441.37	4,366,458.45
Primary road, city fund				118,489.03	529,160.22
County road cash fund	4,418,288.10	6,605,825.81	6,003,044.21	4,388,646.14	3,949,407.23
Motor vehicle road fund	1,330,384.10	564,789.18	100,898.68	39,707.17	4,403.57
Secondary road special assessments		36,229.66	22,976.11	56,374.09	79,242.67
Township funds	4,008,751.55	4,891,137.38	6,529,652.37	5,901,592.49	5,921,408.39
All other sources	129,214.03	192,286.09	192,655.24	72,719.66	93,958.07
Totals	\$16,154,078.45	\$28,024,945.25	\$38,741,627.53	\$31,552,374.62	\$30,880,023.73

Cash Balances January 1, 1924.

On January 1, 1924, there were cash balances on hand in the county and township road and bridge funds amounting to \$3,818,211.95, as follows:

County bridge fund.....	\$1,487,454.05
County road cash fund.....	741,064.59
County motor vehicle road fund.....	88,229.44
Total county balance.....	\$2,316,748.08
Township road, drag and drainage funds.....	1,501,463.87
Total	3,818,211.95

Indebtedness.

On January 1, 1924, there were outstanding bonds, for road and bridge work, amounting to \$23,080,005.28 as follows:

Bridge bonds outstanding..	\$14,272,651.08
Road bonds outstanding....	8,807,354.20
Total bonds outstanding..	\$23,080,005.28
Bonds issued during 1923:	
Bridge bonds	\$ 822,680.98
Road bonds	797,875.76
Total	\$1,620,556.74
Bonds retired during 1923:	
Bridge bonds	\$ 510,528.81
Road bonds	192,121.19
Total	\$ 702,650.00
Net increase in bonds outstanding.....	\$ 917,906.74

TOTAL INDEBTEDNESS FOR ROAD AND BRIDGE WORK

COUNTY BRIDGE FUND					
	January 1, 1920	January 1, 1921	January 1, 1922	January 1, 1923	January 1, 1924
Outstanding bills	\$ 128,908.05	\$ 127,641.65	\$ 117,027.27	\$ 81,966.71	\$ 125,444.38
Outstanding warrants	1,194,273.45	2,840,918.20	1,327,597.97	745,341.84	249,298.86
Outstanding bonds	9,999,576.74	11,199,930.76	13,871,463.77	13,906,429.56	14,572,621.08
Total bridge indebtedness	\$11,322,758.24	\$13,911,690.61	\$15,216,089.01	\$14,733,738.11	\$16,947,364.32
COUNTY ROAD FUND					
	January 1, 1920	January 1, 1921	January 1, 1922	January 1, 1923	January 1, 1924
Outstanding bills	\$ 81,914.96	\$ 108,000.33	\$ 132,431.32	\$ 89,900.00	\$ 149,661.22
Outstanding warrants	1,207,540.14	2,669,472.46	1,300,424.22	1,047,281.21	417,690.94
Outstanding bonds	7,062,913.08	4,667,737.09	7,439,478.10	6,557,790.20	8,907,354.20
Total road indebtedness	\$ 8,352,368.18	\$ 7,445,210.88	\$ 9,072,333.64	\$ 8,495,971.41	\$ 9,574,706.36
Total indebtedness	\$19,675,126.42	\$21,356,901.49	\$24,288,422.65	\$23,229,709.52	\$26,522,070.68

EQUIPMENT AND TOOLS ON HAND

Reports of county engineers show that the several counties owned equipment and tools for road and bridge work valued on January 1, 1924 at \$964,656.00. A summary of the principal items of equipment reported is as follows:

Items	Number	Estimated Value
Tractors	231	\$325,535.00
Trucks	104	68,085.00
Concrete Mixers	110	19,455.00
Pile Drivers	78	9,985.00
Heavy Graders	302	139,703.00
Patrol Graders	968	93,393.00
Maintainers	415	58,927.00
Wheeled Scrapers	834	15,163.00
Slip Scrapers	1,501	7,155.00
Road Drags	3,785	34,608.00
Frescos	193	4,362.00
Plows	487	4,829.00
Camp Equipment		16,912.00
Small Tools and Miscellaneous		166,544.00
Total		\$964,656.00

A detailed statement of the inventory of equipment in each county is given in Summary Table No. 25, Parts 1 and 2.

This does not include equipment owned by townships which consists principally of blade graders, tractors, drags, wheeled scrapers, slip scrapers, plows and small tools.

In addition to the above county owned equipment the Iowa State Highway Commission has furnished the counties of the state with war surplus equipment as follows:

Items	Number	Estimated Value
Tractors	34	\$102,250.00
Trucks	156	469,262.00
Trailers, wagons, carts and rolling stock		80,100.00
Shop Machinery		50,420.00
General Supplies		91,200.00
Total War Supplies		\$793,232.00

SUMMARY OF BRIDGE WORK AND EXPENDITURES
FOR ENTIRE STATE

For the Year 1923

The total expenditure for bridges and culverts in the state during 1923 was \$8,148,889.81 or \$759,360.26 more than the total expenditure for like purposes in 1922.

Below is a comparison of the classified expenditures for each of the past five years, including 1923, a comparison of permanent and temporary construction and a statement of the amounts for the various types of construction for the past four years. The amounts given were expended on work classified as shown.

Permanent bridges and culverts include only structures composed entirely of masonry or steel construction. If a part of the work is of temporary nature, the structure is classified under the heading of temporary construction. Pipe culverts not provided with masonry bulkheads are classified as temporary construction.

Chapter 20, Acts of the Thirty-ninth General Assembly, permitting the paying for railway crossings, bridges and culverts on the primary road system from primary road funds. Between December 1, 1922 and December 1, 1923, \$2,394,902.39 was expended from primary road funds for construction and maintenance of bridges and culverts on primary roads.

COMPARISON OF CLASSIFIED BRIDGE EXPENDITURES

AMOUNTS

Classification	1919	1920	1921	1922	1923	Total Five Year Period
Permanent bridges and culverts—county	\$3,897,981.17	\$5,467,243.64	\$4,396,104.39	\$2,479,448.25	\$2,725,508.30	\$18,965,285.35
Bridges—primary	1,770,930.85	1,770,930.85	1,770,930.85	1,802,354.62	2,361,488.29	5,236,644.78
Temporary bridges and culverts	577,741.22	824,261.37	727,930.98	543,335.34	455,620.71	2,128,909.73
Repairs—county	1,187,365.80	1,646,327.13	1,345,971.79	1,171,671.41	1,228,910.53	6,580,246.66
Repairs—primary		8,044.17	18,230.87	33,414.10		60,909.14
Culverts purchased for townships	379,651.16	514,146.30	422,465.06	439,884.30	423,421.79	2,179,569.24
Equipment and un-used material	291,728.43	684,292.34	345,135.53	368,632.00	441,839.90	2,231,748.13
Filling bridges and culverts	339,333.46	420,188.15	307,646.25	208,908.38	201,404.34	1,516,882.58
Special cases	179,819.66	397,454.57	402,594.59	267,137.35	327,251.95	1,386,277.32
Totals	\$6,854,722.43	\$9,894,213.40	\$6,305,522.11	\$7,389,639.56	\$8,148,886.81	\$41,592,707.30

PERCENTAGES

Classification	1919	1920	1921	1922	1923	Total Five Year Period
Permanent bridges and culverts—county	55.83	55.15	47.23	33.55	33.81	45.42
Bridges—primary			13.66	25.61	28.98	13.35
Temporary bridges and culverts	8.42	8.41	8.14	7.35	5.59	7.65
Repairs—county	17.32	16.79	14.45	15.85	15.30	15.80
Repairs—primary			.09	.25	.41	.15
Culverts purchased for townships	5.41	5.24	4.54	5.95	5.30	5.64
Equipment and un-used material	5.71	6.98	3.71	4.99	5.42	5.45
Filling bridges and culverts	4.81	4.29	3.84	2.82	2.48	3.65
Special cases	2.69	3.14	4.34	3.62	2.91	3.48
Totals	100.00	100.00	100.00	100.00	100.00	100.00

COMPARISON OF EXPENDITURES FOR PERMANENT AND TEMPORARY BRIDGE CONSTRUCTION

	1919		1920		1921	
	Expenditures	%	Expenditures	%	Expenditures	%
Permanent bridges and culverts—county	\$ 2,827,981.17	80.14	\$ 5,467,243.64	80.16	\$ 4,396,104.25	64.20
Permanent bridges and culverts—primary					1,270,930.85	18.56
Temporary bridges and culverts	577,741.22	12.11	824,261.37	12.22	727,930.98	11.07
Culvert materials furnished townships	379,651.16	7.75	514,146.30	7.62	422,465.06	6.17
Total	\$ 4,775,473.69	100.00	\$ 6,745,651.31	100.00	\$ 6,847,430.73	100.00
	1922		1923		Five Year Period	
	Expenditures	%	Expenditures	%	Expenditures	%
Permanent bridges and culverts—county	\$ 2,479,448.25	46.30	\$ 2,725,508.30	45.96	\$ 18,810,385.50	63.48
Permanent bridges and culverts—primary	1,802,354.62	35.34	2,361,488.29	39.38	5,236,644.78	18.50
Temporary bridges and culverts	543,835.34	10.15	455,620.71	7.00	3,168,909.73	10.62
Culvert materials furnished townships	429,884.30	8.21	423,421.79	7.66	2,179,569.24	7.30
Total	\$ 5,255,523.51	100.00	\$ 5,966,039.30	100.00	\$ 29,719,529.25	100.00

COMPARISON OF CLASSIFIED PERMANENT BRIDGE AND CULVERT CONSTRUCTION

No.	1919			1920			1921		
	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount	
1 Concrete culverts (Box, Cir., Arch and Pipe)	\$ 2,180,300.58	\$ 2,017,799.00	\$ 2,905,000.64						
2 Masonry culverts	4,263.52	10,943.47							
3 Headwalls and culverts lengthened	15,967.30	105,236.33	295,809.59						
4 Concrete slab bridges	289,846.16	226,722.86	179,176.14						
5 Concrete arch bridges	47,186.61	62,642.16	112,621.25						
6 Concrete abutments	39,872.26	59,874.31	80,982.29						
7 Concrete thru girders	21,716.54	46,274.06	39,848.28						
8 Concrete deck girders	126,526.27	185,269.71	95,226.44						
9 Retaining walls	6,408.07	2,282.07	8,209.13						
10 I-Beam spans—concrete abutments	342,007.19	448,718.58	539,547.23						
11 Steel girders—concrete abutments	17,143.36	25,716.45	27,118.60						
12 Pony truss—concrete abutments	494,203.00	886,738.40	1,064,337.23						
13 High steel trusses—concrete abutments	128,554.57	259,545.54	300,581.35						
14 Deck trusses—concrete abutments	107.00								
15 Miscellaneous permanent construction		39,159.56	43,872.59						
Total	\$ 2,627,488.18	\$ 2,607,243.64	\$ 2,607,025.14						

COMPARISON OF CLASSIFIED TEMPORARY BRIDGE AND CULVERT CONSTRUCTION (Continued)

No.		1919	1920	1921
		Amount	Amount	Amount
1	Concrete pipe culverts.....	\$ 185,306.52	\$ 78,472.79	\$ 43,202.80
2	Corrugated pipe culverts.....	4,287.47	100,240.60	145,619.70
3	I-beam spans-piling abutments.....	25,646.37	39,027.72	78,474.11
4	Pony truss on piling-wood floor.....	36,424.63	78,056.62	72,827.49
5	Wood pile bridges.....	328,963.12	472,648.53	373,641.64
6	Misc. temporary bridges and culverts.....	61,419.90	56,512.01	43,865.24
	Total.....	\$ 661,028.50	\$ 824,191.37	\$ 757,959.96
	Grand total.....	\$ 4,288,516.70	\$ 6,521,866.01	\$ 6,424,946.12

COMPARISON OF CLASSIFIED PERMANENT BRIDGE AND CULVERT CONSTRUCTION

No.		1922	1923	Five Year Period
		Amount	Amount	Amount
1	Concrete culverts (Box, Ch., Arch and Pipe)	\$ 2,356,999.81	\$ 2,308,309.90	\$12,614,322.64
2	Masonry culverts.....	.....	.....	15,145.99
3	Headwalls and culverts lengthened.....	178,443.37	108,812.14	703,259.05
4	Concrete slab bridges.....	74,491.39	82,253.49	984,428.56
5	Concrete arch bridges.....	120,711.03	73,840.64	448,702.09
6	Concrete abutments.....	31,285.80	56,828.30	251,402.86
7	Concrete thru girders.....	4,519.46	.....	97,456.04
8	Concrete deck girders.....	41,516.07	28,884.30	518,243.95
9	Retaining walls.....	3,274.76	1,365.47	21,759.61
10	I-beam spans-concrete abutments.....	428,200.48	813,094.30	2,563,137.78
11	Steel girders-concrete abutments.....	18,348.63	.....	123,326.94
12	Pony truss.....	725,311.83	1,131,613.60	4,212,514.06
13	High steel trusses-concrete abutments.....	289,900.17	292,584.31	1,460,874.92
14	Deck trusses-concrete abutments.....	.....	.....	197.90
15	Miscellaneous permanent construction.....	8,681.58	23,929.89	112,943.06
	Total.....	\$ 4,371,767.87	\$ 5,116,966.49	\$24,330,437.22

COMPARISON OF CLASSIFIED TEMPORARY BRIDGE AND CULVERT CONSTRUCTION

No.		1922	1923	Five Year Period
		Amount	Amount	Amount
1	Concrete pipe culverts.....	\$ 27,680.70	\$ 27,729.64	\$71,400.46
2	Corrugated pipe culverts.....	112,564.03	84,091.14	447,498.03
3	I-beam spans-piling abutments.....	42,900.50	43,904.00	230,152.90
4	Pony truss on piling-wood floor.....	71,084.07	37,296.18	315,292.30
5	Wood pile bridges.....	228,271.24	228,900.53	1,053,284.04
6	Miscellaneous temporary bridges and culverts.....	41,725.80	32,669.13	216,773.08
	Total.....	\$ 542,338.84	\$ 455,600.71	\$ 2,232,196.92
	Grand total.....	\$ 4,915,089.31	\$ 5,572,647.20	\$27,432,604.24

CULVERT MATERIAL PURCHASED FOR TOWNSHIPS

Operating under the law which provides that counties may furnish townships with the materials for temporary culverts, the 1,607 townships were furnished material in 1923 at a total cost to the counties of \$423,421.79.

A summary of the cost of material of various classes furnished in 1921, 1922 and 1923 is as follows:

	1921	1922	1923
Corrugated pipe.....	\$ 256,277.87	\$ 307,750.85	\$ 290,522.43
Concrete pipe.....	47,786.35	54,156.43	47,587.12
Lumber.....	66,435.14	56,989.67	75,800.72
Miscellaneous material.....	10,604.98	21,097.35	15,001.32
Total.....	\$ 421,104.34	\$ 439,984.30	\$ 423,421.79

SUMMARY OF ROAD WORK AND EXPENDITURES FOR ENTIRE STATE

Primary and County Road Expenditures.

During the year 1923 the total expenditure for road work on the primary and county roads was \$16,682,307.49. A division of this expenditure by road systems and the average amount spent per mile of road is shown by the following table:

Road System	Number Miles in System	Amount Expended	Average Per Mile
Primary.....	6,646.60	\$ 12,817,524.06	\$ 1,925.42
County.....	11,033.40	2,864,783.83	\$ 259.28
Total.....	17,680.00	\$ 16,682,307.49	\$ 943.57

The above total expenditure on roads does not include items amounting to \$201,404.34 listed under bridge work for filling of bridges and culverts but paid out of county road cash fund.

The classification of work, amount and percentage of entire expenditure for construction, maintenance and special cases is shown below:

Road System	Construction		Maintenance		R. R. Cross. Spl. Cases	
	Amount	%	Amount	%	Amount	%
Primary.....	\$10,430,038.51	81	\$ 2,280,781.56	18	\$ 117,704.20	1
County.....	1,181,295.47	21	2,220,987.74	57	462,569.40	12
Total.....	\$11,611,334.00		\$ 4,499,769.09		\$ 580,273.60	

A total of 1,891.89 miles of primary and county roads were constructed during 1923 as follows:

Class of Construction	Miles of Primary System	Miles of County System	Total Number Miles
Built to permanent grade.....	837.50	230.02	1,067.52
Gravel surfaced.....	443.80	279.87	723.67
Hard surfaced.....	100.70	100.70	201.40
Totals	1,382.00	509.89	1,891.89

Condition of the primary and county road systems January 1, 1924 was as follows:

Condition	Primary	County
Miles of earth road not built.....	2,337.90	8,412.68
Miles of earth road built to permanent grade.....	2,001.20	902.19
Miles surfaced with gravel.....	1,850.40	1,716.61
Miles paved.....	419.10	2.01
Total miles in system	6,618.60	11,033.49

The total expenditure for repairing and maintaining county roads was \$2,220,987.74, of which \$1,125,859.03 was spent for patrol maintenance including dragging, \$555,673.06 for gang maintenance, and \$539,455.65 for equipment and tools, or an average of \$201.29 per mile.

The comparative cost of maintenance of earth, gravel and paved roads of the primary and county systems for the years 1921, 1922 and 1923 is shown by the following table:

	Primary System		County System	
	Number of Miles	Average Cost Per Mile	Number of Miles	Average Cost Per Mile
Earth				
1921.....	5,223.4	\$ 297.28	9,489.36	\$ 249.62
1922.....	4,722.9	270.00	9,408.02	190.00
1923.....	4,250.1	218.00	9,314.78	195.00
Gravel				
1921.....	1,156.6	450.83	1,189.78	238.40
1922.....	1,358.0	377.00	1,279.74	167.00
1923.....	1,888.4	441.00	1,716.61	232.00
Paved				
1921.....	236.0	80.28	2.01	137.66
1922.....	324.4	118.00	2.01	278.00
1923.....	419.1	131.00	2.01	168.00

Township Road Work.

Reports from 1,307 of the 1,607 townships were received. Average expenditures for the 300 townships which did not report are included in tabulations in this report.

The 1,307 townships reporting show a total road expenditure of \$4,919,611.43, or an average of \$3,764.05 per township. In 1922 the average township expenditure was \$3,764.00. The township road work for 1923 is classified as follows:

Construction.....	\$ 1,222,971.29	29%
Maintenance.....	4,775,639.91	79%
Special cases.....	20,000.23	1%
Total	\$ 6,048,620.43	100%

The township expenditures reported are shown in detail in summary tables Nos. 3, 21 and 24.

SECONDARY ROAD DISTRICTS

During 1923, under the provisions of Section 47, Chapter 237, Thirty-eighth General Assembly, 169 Secondary road districts were petitioned for in 25 counties proposing the gravel surfacing of 754 miles of road, of which 269 miles was county and 485 was township.

Of the 169 districts petitioned for, 63 were established, embracing 346 miles of road, of which 150 was county and 196 township. Contracts were let for graveling 215 miles, 140 on the county and 75 on the township system.

Graveling was completed on 205 miles, of which 121 was county and 84 township.

The average cost of gravel surfacing completed on secondary roads was \$2,138.00 per mile.

One-fourth of the cost of graveling has been assessed against lands within the several districts. The average width of assessment district was 1.64 miles and the assessment per acre was approximately 40 cents.

A more detailed showing as to the counties in which secondary roads were improved under the district plan will be found in Summary Table No. 15.

SUMMARY TABLE NO. 1

Expenditures for Bridge and Road Work County and Township Roads

County	Bridges and Culverts	County Road	Township Roads	Total
Adair	\$ 8,750.90	\$ 34,909.68	\$ 59,414.02	\$ 184,063.61
Adams	38,109.62	17,309.41	31,421.08	76,840.11
Allamakee	48,812.96	93,173.83	43,347.90	145,334.69
Anasconson	41	28,749.67	37,796.27	128,223.43
Atchison	74,067.07	36,981.74	37,111.80	148,160.61
Benton	72,901.46	46,066.62	50,040.97	174,728.15
Black Hawk	45,032.58	47,057.08	161,102.94	357,238.92
Boone	109,021.25	114,191.26	123,114.41	346,326.92
Bremer	86,822.21	28,619.72	24,709.63	113,211.56
Buchanan	40,519.21	25,335.28	88,978.94	130,823.54
Bussa Vista	15,374.73	30,378.46	49,344.22	112,317.41
Butler	38,902.94	36,956.23	52,943.41	112,811.56
Calhoun	70,713.48	55,589.27	57,627.44	180,656.19
Carroll	43,165.46	24,912.67	125,174.43	252,174.43
Cass	59,964.50	19,302.90	22,503.83	101,791.23
Cedar	70,715.37	35,341.15	54,956.87	161,018.59
Cerro Gordo	73,491.94	56,359.70	70,333.64	200,089.28
Cherokee	63,638.20	30,304.54	129,267.31	223,210.05
Chickasaw	45,141.47	22,807.25	46,522.91	114,531.63
Clarke	43,728.44	37,218.63	25,940.72	97,897.79
Clay	40,250.57	52,127.27	50,273.57	142,751.41
Clayton	122,701.02	43,314.00	31,512.73	197,528.85
Clinton	96,522.18	73,291.15	63,709.04	236,523.37
Crawford	82,386.63	36,187.91	82,791.49	199,368.02
Dallas	47,468.45	63,871.67	149,145.39	360,485.52
Davis	49,001.43	33,875.74	34,015.33	107,492.50
Decatur	47,724.00	32,085.51	30,509.91	106,319.42
Delaware	52,031.05	21,446.46	49,303.36	123,884.87
Des Moines	35,034.72	16,184.42	32,705.49	74,941.63
Dickinson	14,311.96	17,306.86	42,250.55	73,969.37
Dubuque	40,250.25	30,321.45	42,154.88	121,726.58
Emmet	15,320.73	23,407.19	47,243.01	86,070.94
Fayette	82,633.64	6,346.49	78,389.59	226,438.72
Floyd	59,702.27	40,076.91	46,541.82	143,321.00
Franklin	35,514.37	46,653.53	52,563.79	134,881.70
Fremont	79,909.96	21,009.63	23,781.04	129,690.63
Greene	33,655.26	18,745.42	89,029.12	141,442.80
Grundy	40,720.44	41,229.30	46,816.01	148,765.75
Guide	46,794.67	31,081.03	42,774.41	121,650.11
Hamilton	43,810.12	48,408.12	52,307.31	144,525.55
Hancock	28,319.10	19,875.77	45,099.50	93,294.36
Hardin	60,067.20	86,194.69	41,300.77	167,562.66
Harrison	63,063.37	13,464.78	43,011.00	119,500.21
Henry	21,568.09	25,518.30	27,050.10	74,137.09
Iowa	11,907.04	20,940.27	21,423.97	112,423.97
Humboldt	21,800.18	19,202.10	71,829.83	112,128.11
Ida	50,770.03	38,809.70	30,039.37	115,619.10
Jackson	38,840.67	30,000.90	56,436.89	125,288.52
Jasper	41,628.73	30,662.58	115,544.44	187,835.75
Jefferson	115,543.86	46,307.11	31,203.88	193,144.85
Jessie	44,948.96	30,009.90	52,985.87	133,975.82
Johnson	50,097.08	53,273.12	50,085.73	153,455.93
Jones	49,771.87	40,005.86	30,701.52	120,525.25
Kossuth	43,284.17	36,825.18	53,909.72	133,979.08
Lee	29,003.30	73,496.11	52,383.74	149,883.15
Linn	80,859.92	34,146.59	135,094.15	250,100.66
Linn	134,144.55	168,223.03	97,756.15	394,124.63
Louis	35,208.61	15,340.56	28,383.87	71,223.04
Lucas	11,957.04	16,241.21	26,826.00	74,044.25
Lyon	42,317.36	48,727.32	39,465.19	130,549.77
Madison	60,215.88	22,723.01	47,040.00	134,978.88
Maquoketa	51,628.78	20,925.32	49,068.25	145,622.35
Marion	56,506.02	28,140.40	38,168.79	109,790.21
Marshall	32,403.98	46,307.11	63,563.93	156,945.74
Mills	83,879.57	22,516.45	47,900.21	134,296.23
Mitchell	44,352.29	44,352.29	39,011.80	127,756.49
Monona	31,307.00	17,620.04	85,300.92	134,228.96
Monroe	24,357.52	11,337.80	28,964.48	64,629.89
Montgomery	44,654.86	17,777.54	31,025.32	93,457.72
Muscatine	34,776.16	31,703.17	62,117.27	168,596.60
O'Brien	67,012.75	36,054.39	60,963.30	164,030.44

SUMMARY TABLE NO. 1—(Continued)

County	Bridges and Culverts	County Road	Township Roads	Total
Oceola	36,663.97	18,968.03	30,380.20	86,012.20
Page	17,845.80	20,022.98	45,084.16	177,992.94
Palo Alto	53,463.62	25,408.88	30,129.83	109,002.33
Plymouth	39,049.85	30,429.15	45,216.97	174,286.95
Plymouth	36,706.23	35,651.02	61,149.37	133,506.62
Pocahontas	50,528.87	157,786.52	42,107.00	388,431.39
Polk	144,342.19	90,913.95	70,214.49	375,670.63
Pottawattamie	71,313.51	39,476.72	64,728.24	175,547.54
Poweshock	29,254.25	18,116.54	28,507.18	85,967.97
Ringgold	80,274.74	28,000.03	70,726.79	179,702.46
Sac	292,846.39	91,014.60	44,359.85	428,221.10
Scott	78,171.68	25,344.01	72,079.16	177,394.85
Shelby	74,172.42	50,026.25	63,923.25	190,109.22
Sioux	61,067.89	44,467.97	68,002.92	174,187.88
Sioux	44,881.84	44,804.57	67,275.99	157,138.40
Tama	57,088.80	19,277.24	43,728.15	130,994.28
Story	61,067.89	44,467.97	68,002.92	174,187.88
Taylor	24,546.51	13,423.79	12,186.38	97,619.99
Union	50,740.11	15,487.71	31,392.17	117,619.99
Van Buren	30,168.00	28,983.87	38,476.72	97,630.59
Wassell	48,028.21	27,729.11	40,802.63	111,609.95
Warren	48,008.06	26,850.10	38,441.31	113,809.47
Washington	54,158.13	33,299.45	34,729.00	122,187.18
Wayne	59,311.05	38,514.74	93,416.46	191,742.25
Webster	11,273.61	49,838.28	51,494.56	112,611.45
Winnebago	60,649.83	62,579.49	90,507.31	190,736.63
Winneshek	34,745.38	127,815.05	47,807.43	269,427.86
Woodbury	32,016.21	112,417.66	41,971.88	86,406.75
Worth	45,150.13	26,545.92	40,986.47	122,882.52
Wright				
Total reported				
Townships not reported estimated	\$ 5,753,987.42	\$ 3,864,782.83	\$ 4,919,611.43	\$ 14,538,381.68
Grand total	\$ 5,753,987.42	\$ 3,864,782.83	\$ 6,048,826.43	\$ 15,667,596.68

SUMMARY TABLE NO. 2

Expenditures for Bridges, Culverts, Road Construction and Maintenance County and Township Road Systems Shown by Funds—Annual Report of County Engineers

County	Bridges and Culverts				County Roads						
	Bridge Fund	Road Fund	All Other Sources	Total	County Road Cash	Motor Vehicle Fund	Bridge Fund	Secondary Road District Special Assessments	All Other Sources	Total	Grand Total
Adair	\$ 4,026.12	\$ 5,333.70	\$ 9,800.08	\$ 89,769.90	\$ 29,432.98				\$ 5,476.70	\$ 34,909.68	\$ 124,609.58
Adams	28,109.62			28,109.62	17,309.41					17,309.41	45,419.03
Alamakee	68,812.96			48,812.96	33,173.83					33,173.83	101,986.79
Appanoose	56,584.40	5,110.01		61,694.41	28,749.07					28,749.07	90,443.48
Audubon	63,745.62			74,967.97	36,981.74					36,981.74	111,048.81
Benton	72,518.46	83.00		72,601.46	46,086.02					46,086.02	118,688.08
Black Hawk	56,922.08			56,922.08	43,611.23				5,001.35	48,612.58	104,003.28
Boone	100,021.25			100,021.25	162,632.38		\$ 12,158.88			174,791.26	274,812.51
Bremer	59,099.21	123.00		59,222.21	28,619.72					28,619.72	88,441.93
Buchanan	49,519.21			49,519.21	22,538.28					22,538.28	71,857.49
Buena Vista	15,374.73			15,374.73	36,978.46					36,978.46	52,353.19
Butler	28,902.94			38,902.94	26,965.23					26,965.23	65,868.17
Calhoun	79,713.48			79,713.48	39,865.09			12,734.18		52,599.27	132,302.75
Carroll	43,835.46			43,835.46	24,913.07					24,913.07	68,748.53
Cass	59,594.59			59,594.59	19,292.00					19,292.00	78,886.59
Cedar	70,715.57			70,715.57	25,341.15					25,341.15	96,056.72
Cerro Gordo	73,491.94			73,491.94	56,103.00			3,100.61		59,203.61	132,735.64
Cherokee	69,076.68	3,076.68		62,153.36	29,284.14		10.40			29,294.54	91,447.90
Chickasaw	45,141.47			45,141.47	19,867.25				9,000.00	28,867.25	74,008.72
Clarke	27,082.00	16,706.54		43,788.54	27,218.63					27,218.63	70,997.07
Clay	29,539.61	327.46	26.50	40,299.57	22,122.47		4.80			22,127.27	62,426.84
Clayton	116,051.31	6,710.12		122,761.43	43,214.30					43,214.30	166,075.13
Clinton	99,522.18			99,522.18	72,281.15					72,281.15	171,803.33
Crawford	83,388.63			83,388.63	39,187.91					39,187.91	122,576.54
Cherokee	69,076.68			69,076.68	125,800.00			1,845.78		127,645.78	196,722.46
Dallas	74,938.45			74,938.45	62,135.80					62,135.80	137,074.25
Davis	45,154.88	4,446.55		49,601.43	28,875.74					28,875.74	78,477.17
Decatur	43,710.98	4,012.02		47,724.00	32,680.74	\$ 4.77				32,685.51	79,809.51
Delaware	25,684.72			25,684.72	39,847.80	1,068.57				40,916.37	66,601.09
Des Moines	25,654.72			25,654.72	16,184.42					16,184.42	41,839.14
Dickinson	13,919.96	892.00		14,811.96	17,205.86					17,205.86	31,707.82
Dubuque	49,263.35			49,263.35	39,831.45					39,831.45	79,554.70
Emmet	15,483.98	42.75		15,526.73	18,791.31				4,516.29	23,307.60	38,844.43
Fayette	77,432.95		4,840.57	82,273.52	43,229.33		1,179.06		900.48	45,198.87	127,472.39
Floyd	49,411.30	800.97		50,212.27	46,076.91					46,076.91	96,289.18
Franklin	36,814.37			25,814.37	45,666.53					21,099.63	97,000.58
Freemont	75,960.90			75,960.90	41,669.63					41,669.63	117,630.53
Greene	32,633.39			33,633.39	13,725.25				4,363.82	18,089.07	51,722.46
Grundy	56,953.34	3,217.10		60,170.44	41,250.30					41,250.30	101,420.74
Guthrie	45,794.67			45,794.67	39,849.98					39,849.98	85,644.65
Hamilton	28,313.10			28,313.10	19,875.77					19,875.77	48,188.87
Hancock	64,567.20			64,567.20	56,175.74		10.28			56,186.02	120,753.22
Harrison	68,093.37			63,063.37	13,464.78					13,464.78	76,528.15
Hartwick	31,546.30			31,568.69	25,518.30					25,518.30	57,086.99
Henry	58,701.55			58,701.55	13,762.29					13,762.29	72,463.84
Howard	21,074.78	25.40		21,100.18	19,202.10					19,202.10	40,302.28
Humboldt	30,170.03			30,170.03	38,809.79					38,809.79	69,079.82
Ia	28,546.67			28,546.67	30,005.06					30,005.06	58,551.73
Iowa	44,373.19			44,373.19	26,662.58					26,662.58	71,035.69
Jackson	43,025.21	1,896.73		44,921.94	49,397.11					49,397.11	94,319.05
Jasper	114,092.86	351.00		114,443.86	26,080.59					26,080.59	140,524.45
Jefferson	49,625.74	459.24		50,084.98	50,971.75		2,298.57			53,270.32	103,355.30
Jones	60,158.51	604.78	8.58	60,771.87	36,210.69		13,822.36			50,033.05	110,804.92
Keokuk	43,258.17			43,284.17	26,825.18					26,825.18	70,109.35
Kossuth	74,732.31	6,126.71		80,859.02	34,196.59					34,196.59	115,055.61
Lake	123,093.86	10,450.09		133,543.95	108,229.92					108,229.92	241,773.87
Linn	2,027.04			2,027.04	10,241.21					10,241.21	12,268.25
Louis	42,317.36			42,317.36	68,787.25					68,787.25	111,054.55
Lyon	57,084.01	8,131.87		65,215.88	22,723.01					22,723.01	87,938.89
Madison	54,295.78			54,925.78	30,923.82					30,923.82	85,819.60
Mahaska	56,001.97	2,444.05		58,446.02	28,140.40					28,140.40	86,586.42
Marietta	31,764.80	729.18		32,493.98	57,281.98					57,281.98	89,775.96
Marshall	53,879.57			53,879.57	22,316.45					22,316.45	76,196.02
Mills	35,035.59			35,035.59	44,356.24					44,356.24	79,391.83
Mitchell	31,307.00			31,307.00	17,630.74					17,630.74	48,937.74
Monroe	42,019.04	1,306.24	2,488.08	45,813.36	19,517.25					19,517.25	65,330.61
Montgomery	34,716.18	59.98		34,776.16	31,064.25					31,064.25	65,840.41
Muscatine	87,012.75			87,012.75	36,054.29					36,054.29	123,067.04
Noble	28,663.97			28,663.97	16,648.59					16,648.59	45,312.56
O'Brien	34,716.18			34,776.16	31,064.25					31,064.25	65,840.41
Oceola	28,663.97			28,663.97	16,648.59					16,648.59	45,312.56
Page	85,408.82			85,408.82	25,498.88					25,498.88	110,907.70
Palo Alto	88,976.50	983.53		89,960.03	89,429.13		3,319.44			92,748.57	182,708.60
Plymouth	28,765.23			28,765.23	35,621.02					35,621.02	64,386.25
Pocahontas	88,974.79	1,564.08		90,538.87	130,785.82					130,785.82	221,324.69
Polk	144,542.19			144,542.19	69,913.95					69,913.95	314,456.14
Pottawattamie	144,542.19			144,542.19	69,913.95					69,913.95	314,456.14

SUMMARY TABLE NO. 2—(Continued)

County	Bridges and Culverts				County Roads						Grand Total
	Bridge Fund	Road Fund	All Other Sources	Total	County Road Cash	Motor Vehicle Fund	Bridge Fund	Secondary Road District Special Assessments	All Other Sources	Total	
Poweshiek	71,313.51			71,313.51	39,476.73					39,476.73	110,790.23
Ringgold	29,251.25			29,251.25	18,116.54					18,116.54	47,367.79
Sac	50,134.26	240.48		50,374.74	26,097.17		7,071.82	2,503.76		35,672.75	86,047.49
Scott	292,546.39			292,546.39	33,948.24					33,948.24	326,494.63
Shelby	71,248.28	7,729.40		79,977.68	39,144.01				5,200.00	44,344.01	124,321.69
Sioux	70,721.86	3,430.56		74,152.42	52,985.25					52,985.25	127,137.67
Story	59,590.99	1,488.80		61,079.79	44,467.97					44,467.97	105,547.76
Tama	84,981.84			84,981.84	44,894.57					44,894.57	129,876.41
Taylor	55,554.00	2,134.83		57,688.89	19,977.24					19,977.24	77,666.13
Union	24,546.51			24,546.51	15,124.19				299.60	15,423.79	40,070.30
Van Buren	42,293.07		8,477.04	50,770.11	15,467.71					15,467.71	66,237.82
Wapello	30,168.00			30,168.00	28,985.87					28,985.87	59,153.87
Warren	39,196.71	3,871.50		43,068.21	37,739.11					37,739.11	80,807.32
Washington	45,038.06			45,038.06	28,569.19					28,569.19	73,607.25
Wayne	54,138.13			54,138.13	33,299.45					33,299.45	87,437.58
Webster	59,311.05			59,311.05	38,514.74					38,514.74	97,825.79
Winebag	11,273.61	92.47		11,366.08	49,833.28	4.54				49,837.82	61,203.90
Winnebago	66,837.36			66,837.36	63,574.66					63,574.66	130,412.02
Woodbury	80,968.42	3,745.96		84,714.38	126,273.51		1,541.51			127,815.02	212,529.40
Worth	32,016.21			32,016.21	12,417.66					12,417.66	44,433.87
Wright	45,130.13			45,130.13	36,545.92					36,545.92	81,676.05
Total	\$5,502,996.18	\$135,341.19	\$ 25,650.05	\$5,753,987.42	\$3,753,212.47	\$4,403.37	\$ 26,180.57	\$ 36,956.43	\$ 44,029.79	\$3,804,782.33	\$ 9,618,770.25

SUMMARY TABLE NO. 3

Expenditures for Road Construction and Maintenance on Township Road System Shown by Funds—
Annual Report of County Engineers

County	No. Townships in County	No. Townships Reporting	Township Road Fund	Township Drag Fund	Township Drainage Fund	County Funds on Township Roads in Secondary District	Secondary Road District Special Assessment Funds	All Other Sources	Total
Adair	18	18	\$ 36,689.86	\$ 15,004.91	\$ 3,458.84	\$ 2,642.30		\$ 3,647.02	\$ 59,414.63
Adams	12	12	22,997.26	8,423.72					31,420.98
Allamakee	18	18	43,347.60						43,347.60
Appanoose	17	17	26,122.67	9,042.75	2,624.85				37,790.27
Archibald	13	10	24,397.21	12,466.82	165.27				36,929.30
Benton	20	12	38,744.13	13,125.01	4,179.93				56,049.07
Black Hawk	18	18	42,632.47	12,406.12	1,909.00				57,047.59
Boone	17	17	70,306.86	13,743.82	13,501.97	11,321.74	\$ 14,246.72		123,114.41
Bremser	14	7	19,732.42	5,057.21					24,789.63
Buchanan	16	12	35,582.59	10,388.55	3,066.90				49,038.04
Buena Vista	17	13	23,691.16	10,281.55	12,705.36	4,806.15			51,484.22
Butler	16	16	43,150.98	9,114.68	678.55				52,944.21
Calhoun	16	16	34,743.11	14,849.49	3,632.84				53,225.44
Carroll	16	14	35,061.21	12,631.27	8,714.44				56,406.92
Cass	16	7	15,792.62	6,801.21					22,593.83
Cedar	17	10	41,165.99	13,793.88					54,959.87
Cerro Gordo	16	16	37,444.09	10,779.63	22,118.92				70,342.64
Cherokee	16	13	25,111.97	11,719.24					36,831.21
Chickasaw	12	12	37,228.38	6,295.11	2,989.42				46,512.91
Clarke	12	9	16,177.36	4,763.36					20,940.72
Clay	16	8	26,566.74	4,324.51	12,936.03	6,526.29			50,373.57
Clayton	23	10	34,396.99	7,175.74					41,572.73
Clinton	20	16	44,872.18	14,716.20	4,180.66				63,769.04
Clarke	16	14	19,812.56	6,577.76	119.50				26,509.82
Dallas	16	16	90,811.69	18,315.27	15,925.64	12,947.85	12,947.85		140,148.30
Davis	15	15	23,987.57	10,077.76					34,065.33
Decatur	16	14	19,812.56	6,577.76					26,390.32
Delaware	16	15	39,238.94	9,930.84	61.56				49,269.36
Des Moines	13	12	22,750.17	9,962.32					32,712.49
Dickinson	12	9	13,762.72	4,097.74	16,425.09	3,700.00	3,700.00		42,985.55
Dubuque	17	11	34,952.62	3,301.25					38,253.87
Emmet	12	12	27,389.80	6,261.81	8,639.88	3,569.52			45,861.01

SUMMARY TABLE NO. 3—(Continued)

County	No. Townships in County	No. Townships Reporting	Township Fund	Township Fund	Township Fund	County Funds on Township District	Secondary Road District Assessment Funds	All Other Sources	Total
Fayette	28	19	27,551.56	28,818.01	8,453.92				78,880.39
Floyd	12	11	31,683.96	31,683.96	9,782.00				43,117.27
Franklin	18	13	27,534.28	5,864.51	2,931.45				33,360.24
Grant	13	7	11,662.28	10,829.94	16,457.96				23,741.04
Grundy	14	12	35,442.11	10,829.94	4,484.60				49,586.65
Guthrie	11	12	25,671.64	12,368.08	4,484.60				42,714.41
Hancock	16	11	31,174.28	6,477.57	1,446.57				32,107.31
Harrison	15	11	27,748.85	8,800.06	5,823.86				41,380.77
Hauberk	10	11	31,031.41	9,184.49	1,446.57				42,113.00
Henry	19	13	30,098.78	14,002.07	23,629.06				57,729.90
Howard	12	11	23,213.54	6,729.39	1,491.23		4,171.92		31,653.07
Humboldt	12	11	30,098.78	14,002.07	23,629.06				71,883.97
Iowa	16	16	25,843.09	19,326.29	1,037.68				46,207.06
Jackson	18	14	33,213.62	11,306.14	740.41				45,260.27
Jessup	13	8	33,174.28	1,399.22	1,399.22				34,972.72
Johnson	12	12	33,174.28	13,913.58	4.41				47,192.27
Jones	19	19	28,221.00	8,479.52					36,700.52
Keokuk	11	11	42,186.79	13,913.58	4.41				56,104.78
Kossuth	15	12	36,023.11	8,149.19	16,820.10	913.94			52,806.24
Linn	18	12	35,799.28	26,497.58	5,479.19				67,776.05
Lora	12	9	27,777.86	9,048.14	638.37				37,464.37
Lyon	12	11	27,777.86	9,048.14	638.37				37,464.37
Madison	18	17	29,954.44	9,320.75	11,543.51				50,818.70
Mahaska	18	13	22,549.41	15,208.02					37,757.43
Marion	15	10	50,654.27	18,899.78	14,129.74				83,683.79
Marshall	13	10	45,658.68	15,258.08	2,666.61				63,573.37
McCall	13	11	33,174.28	5,371.25	1,752.30				40,301.83
Mitchell	19	14	28,941.21	5,371.25	1,922.83			3,607.29	38,842.58
Monona	19	14	33,022.93	9,724.72	1,037.68			1,792.40	45,577.73

Monroe	13	10	10,106.60	6,615.23	3,123.29				19,848.12
Montgomery	14	14	27,120.07	11,534.72	20.25			3,026.80	42,111.27
Osborne	14	10	46,209.74	11,850.62	2,890.64				60,950.39
O'Brien	16	16	31,682.01	32,452.68	1,025.23				65,160.92
Polk	16	16	31,682.01	32,452.68	1,025.23				65,160.92
Palo Alto	16	9	14,634.82	3,298.20	9,818.00	1,048.71			30,139.83
Plymouth	24	11	33,249.12	12,979.94	17,659.73				63,916.97
Polk	19	11	31,753.99	7,192.97	3,120.07				42,107.03
Pottawattamie	28	19	56,235.48	9,827.11	4,601.50				70,664.09
Rawls	16	8	23,575.20	5,690.28	5,619.16				34,884.64
Regis	16	8	23,575.20	5,690.28	5,619.16				34,884.64
Sac	16	16	44,469.55	17,956.68	7,621.04	894.97	226.75		63,969.15
Scott	15	14	31,622.98	9,429.27	7.69				41,059.94
Shellsburg	14	14	31,622.98	9,429.27	7.69				41,059.94
Sioux	22	22	48,461.82	15,120.49	5,101.74				68,685.05
Story	16	15	42,127.72	12,709.04	13,766.28				68,603.04
Tama	17	17	50,789.28	11,319.28	2,377.23				64,485.79
Taylor	16	16	33,174.28	13,913.58	4.41				47,092.27
Union	12	4	9,068.24	3,118.14					12,186.38
Van Buuren	14	14	25,205.69	6,996.51	616.11				32,828.31
Wapello	16	12	29,203.68	11,569.91	19.14		654.75		40,922.03
Washington	15	12	54,198.41	10,729.75	19.14				64,947.40
Wayne	16	14	25,246.67	9,483.53	27,667.31				62,397.51
Webster	16	16	36,289.20	8,127.47	17,677.50				62,094.17
Willsboro	12	12	36,289.20	8,127.47	17,677.50				62,094.17
Winnebago	20	19	45,906.00	11,541.21	4,781.92				62,229.13
Winneshiek	12	11	28,966.20	1,393.05	3,781.92				34,141.17
Woodbury	12	11	28,966.20	1,393.05	3,781.92				34,141.17
Wright	16	16	21,498.70	5,852.95	12,622.34				40,974.00
Total reported	1,607	1,607	\$83,851,581.28	\$1,029,439.15	\$67,711.29	\$9,469.17	\$1,898.84	\$9,545.29	\$84,079,011.15
Not reported, estimated	200	200	756,297.06	243,174.00	191,987.00	11,203.00	7,803.00	4,433.00	1,129,216.00
Grand total	1,807	1,807	\$84,607,878.34	\$1,272,613.15	\$67,903.29	\$20,672.17	\$12,691.84	\$13,978.29	\$85,208,227.15

SUMMARY TABLE NO. 4

Expenditures for Bridges and Culverts—Primary, County, and Township Roads, Classified Annual Report of County Engineers

County	Permanents Bridges and Culverts	Temporary Bridges and Culverts	Repair Work	Culvert Ma- terial Per- tained to Township	Equipment and Consum- ables	Filling and Special Culverts	Special Cases	Total
Adair	\$ 9,082.17	6,282.14	6,085.27	\$ 4,602.39	\$ 3,116.50	\$ 4,502.80	\$ 982.63	\$6,790.90
Adams	12,266.20	12,266.20	4,055.00	4,000.00	4,177.32	397.35	596.39	28,138.00
Allamakee	6,219.02	4,422.20	10,000.00	10,000.00	2,322.50	1,000.00	1,000.00	40,000.00
Ashtabula	10,222.00	28,355.08	11,286.00	10,725.50	11,606.33	3,150.00	74,005.07	141,004.41
Benett	47,039.02	5,244.41	8,286.24	6,075.04	6,056.34	82.00	5,301.11	75,000.00
Black Hawk	22,594.22	6,267.45	5,061.47	1,094.45	2,257.15	3,500.55	10,000.00	50,000.00
Brewer	33,001.30	1,000.00	8,476.07	4,835.01	7,008.10	125.00	4,408.43	60,000.00
Buchanan	24,688.81	6,620.28	16,020.28	7,502.00	1,505.75	622.13	1,284.60	55,314.73
Burlington	7,478.80	5,520.88	16,778.01	1,177.57	5,220.11	1,911.82	924.50	38,000.00
Calhoun	52,555.25	4,002.73	2,310.72	1,096.05	8,236.78	1,629.18	3,811.87	65,000.00
Carroll	14,149.75	2,697.10	30,829.95	3,133.03	2,400.42	4,000.00	7,124.35	50,000.00
Cedar	31,077.58	6,677.50	17,125.34	1,854.18	17,720.00	1,887.17	1,887.17	70,715.87
Cerro Gordo	56,075.06	1,216.50	5,222.34	1,574.38	1,021.88	1,504.30	5,219.43	62,152.36
Chickasaw	40,151.62	2,602.21	5,222.34	1,574.38	1,021.88	1,504.30	5,219.43	49,128.41
Chickasaw	11,240.50	10,548.48	5,376.45	828.00	1,018.44	6,887.33	610.00	49,128.41
Clarke	8,952.55	11,225.11	3,302.70	1,730.00	109.17	4,431.08	4,800.00	122,750.00
Clay	31,077.58	1,092.58	3,000.00	4,301.02	3,177.96	1,135.28	1,177.13	99,522.18
Clinton	81,661.06	311.04	8,805.67	2,004.75	3,658.56	5,142.90	2,758.78	74,000.00
Clayton	24,000.00	2,307.21	22,286.92	2,004.75	4,975.29	4,446.55	2,807.75	49,001.43
Dallas	42,229.20	2,602.21	15,409.40	2,107.34	8,191.42	4,013.02	4,038.67	47,751.00
Davenport	15,777.20	2,371.34	23,096.90	4,005.90	7,000.00	4,882.00	6,651.50	55,000.00
Decatur	30,132.20	3,504.18	8,792.00	4,005.90	4,882.00	4,882.00	4,882.00	55,000.00
Delaware	8,700.00	277.07	3,302.70	1,730.00	888.00	122.00	2,449.70	49,000.00
Des Moines	14,476.45	1,267.60	17,286.42	3,701.21	1,081.46	55.80	2,449.70	49,000.00
Emmet	9,646.97	112.71	17,286.42	3,701.21	7,004.05	2,004.19	4,212.04	60,000.00
Franklin	26,048.41	901.31	9,054.35	1,709.14	2,004.19	2,004.19	1,200.20	50,700.27
Franklin	13,629.20	10,357.33	18,120.07	3,708.57	7,129.02	428.10	36.19	80,814.37

Fremont	2,806.20	12,006.20	20,100.00	2,007.20	14,016.58	4,504.25	11,000.00	75,000.00
Grundy	26,222.00	11,700.00	12,015.25	2,000.25	2,217.10	2,217.10	600.00	46,700.47
Greene	10,500.00	6,480.00	12,015.25	6,220.00	6,272.92	1,476.65	1,476.65	30,000.00
Hamilton	4,744.35	4,720.00	4,720.00	4,720.00	17.00	5,111.50	2,000.00	14,000.00
Harrison	7,150.50	2,000.00	2,000.00	2,000.00	2,137.92	21.00	280.00	94,000.00
Harrison	2,000.00	2,000.00	2,000.00	2,000.00	11,211.25	113.00	280.00	20,000.00
Howard	2,000.00	2,000.00	2,000.00	2,000.00	2,853.42	1,141.73	20.00	56,700.50
Humboldt	1,722.82	1,16.25	2,000.00	1,020.00	1,439.82	20.20	20.00	21,100.18
Iowa	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	20,000.00
Jackson	80,540.52	1,131.00	32,476.31	2,008.12	1,047.70	99.77	1,200.00	20,000.00
Jasper	12,000.00	17,786.64	41.20	113.02	501.00	1,106.90	1,106.90	78,000.00
Jones	12,000.00	3,600.25	12,000.00	2,008.12	1,047.70	99.77	1,200.00	20,000.00
Johnson	22,544.12	3,029.66	27,073.25	2,000.00	1,047.70	99.77	1,200.00	78,000.00
Kossuth	18,808.49	2,000.00	8,407.13	4,702.45	8,207.42	1,400.22	2,027.76	90,000.00
Lee	42,007.41	7,150.50	2,000.00	2,000.00	38.15	229.00	985.25	90,771.87
Leitch	45,201.40	1,813.26	11,988.11	3,112.42	7,283.34	690.30	5,710.00	40,000.00
Linn	40,478.75	14,894.14	24,226.07	5,225.34	10,200.00	8,312.20	1,777.00	138,144.65
Linn	12,016.24	509.74	1,762.10	1,041.84	1,050.02	229.97	200.40	78,000.00
Lyon	7,824.46	7,707.20	14,077.18	4,132.90	7,015.20	156.90	402.25	60,217.58
Madison	17,027.24	8,845.13	14,907.41	4,000.20	6,015.00	8,298.57	4,421.28	60,217.58
Madison	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00	20,000.00
Marshall	30,000.00	4,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	20,000.00
Marshall	11,704.86	1,200.00	8,846.42	6,442.60	12,111.00	2,444.00	1,675.41	22,403.68
Mills	8,423.05	22,297.11	2,000.00	2,000.00	6,849.54	874.19	2,000.00	58,000.00
Monroe	2,406.74	317.40	17,074.07	6,226.02	1,428.52	4,647.28	3,397.40	20,000.00
Monroe	6,811.41	220.80	10,853.27	2,325.22	2,000.00	1,007.02	1,100.00	54,207.52
Montgomery	6,507.11	10,004.70	1,200.00	4,004.80	4,013.45	898.20	6,015.41	44,604.80
Montgomery	36,362.22	1,002.20	4,016.21	1,004.25	7,000.00	374.75	2,201.54	70,012.25
O'Brien	10,500.00	4,204.02	1,001.44	2,708.10	1,730.00	1,320.40	70.10	20,000.00
Page	24,201.25	5,821.05	2,000.00	2,000.00	1,000.00	14,000.00	5,100.00	11,000.00
Page	24,201.25	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	20,000.00
Polk	22,679.96	35,328.84	10,447.03	4,000.20	6,000.00	1,545.77	7,500.00	80,000.00
Polk	95.99	6,481.24	6,540.47	1,000.00	2,000.00	2,000.00	2,000.00	20,000.00
Portsmouth	18,149.13	40,500.23	20,733.17	2,000.00	2,000.00	2,000.00	2,000.00	20,000.00
Portsmouth	28,014.03	5,827.00	10,700.72	4,000.00	4,000.00	4,000.00	4,000.00	71,213.11
Ringgold	1,446.48	2,205.24	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	20,000.00
Rock	205,702.45	4,022.10	1,492.13	1,492.13	20,131.58	8,250.18	4,017.61	292,000.00
Shelby	10,402.75	10,307.20	18,120.07	7,008.40	1,091.14	11,250.00	2,314.40	75,000.00

SUMMARY TABLE NO. 4—(Continued)

County	Permanent Bridges and Culverts	Temporary Bridges and Culverts	Repair Work	Culvert Material Purchased for Township	Equipment and Unused Material	Filling Bridges and Culverts	Special Cases	Total
Sioux	41,063.72	7,708.84	15,000.10	5,517.78	3,341.45	285.95	454.58	74,172.42
Story	42,997.51	2,700.00	10,951.05	3,225.60	65.00	1,485.45	563.28	61,037.89
Tama	43,739.40	5,870.34	23,485.48	5,690.41	3,297.65	1,738.95	1,100.21	84,981.84
Taylor	26,701.00	4,028.36	8,941.60	2,181.68	11,758.26	2,134.83	1,943.20	57,688.89
Tipton	1,721.58	2,068.69	5,587.72	8,451.28	4,293.84	1,089.70	543.70	24,546.51
Van Buren	11,533.76	900.00	25,879.10	3,512.00	8,425.00	465.25	25.00	50,740.11
Wapello	18,121.44	3,634.52	4,773.82	2,689.19	825.77	3,871.50	84.00	30,108.00
Washington	7,692.68	3,317.69	9,773.82	4,686.60	5,848.69	2,937.14	2,937.14	43,038.21
Wayne	12,900.06	14,654.39	21,702.41	5,474.61	4,484.90	243.70	3,892.30	48,698.06
Webster	14,931.24	1,244.24	6,919.10	6,539.93	7,124.70	1,996.53	2,768.46	54,158.13
Winnebago	32,594.64	2,935.00	17,567.00	4,884.47	2,831.43	2,433.27	183.31	50,311.05
Winneshek	2,514.28	2,935.40	1,293.95	4,328.58	2,831.80	1,631.41	1,476.04	11,273.61
Winneshiek	42,970.94	2,355.49	12,719.13	2,693.73	2,688.09	911.38	3,491.94	66,049.53
Woodbury	25,924.00	15,671.94	21,070.04	7,491.00	9,774.50	227.10	1,374.42	81,745.38
Worth	26,630.55	167.40	1,813.03	1,981.11	---	36.00	---	32,016.21
Wright	33,292.41	---	8,708.91	2,945.41	---	---	---	45,196.13
Total	\$2,755,548.20	\$ 455,650.71	\$1,238,910.53	\$ 423,421.70	\$ 441,839.30	\$ 291,404.34	\$ 237,251.95	\$ 5,753,987.42

SUMMARY TABLE NO. 5—PART 1

Classification of Permanent Bridge and Culvert Construction for Which Warrants Were Issued in 1923—Primary, County and Township Roads—Annual Report of County Engineers

County	Concrete Culverts	Head Walls Constructed and Culverts Lengthened	Concrete Slab Bridges	Concrete Arch Bridges	Concrete Abutments	Concrete Deck Cantilever Girders
Adair	\$ 9,164.88	\$ 3,410.74	---	\$ 39,243.62	---	---
Adams	---	---	---	---	---	---
Allamakee	5,697.96	301.10	\$ 2,614.26	---	---	---
Appanoose	3,070.00	50.00	---	---	---	---
Audubon	4,734.89	5,487.41	---	---	---	---
Benton	24,511.00	---	1,888.23	---	---	---
Black Hawk	16,771.47	676.25	---	---	\$ 284.50	---
Boone	26,456.05	---	6,196.48	---	---	---
Bremer	17,984.84	169.19	---	---	---	---
Buchanan	12,470.43	225.00	---	---	11,381.88	---
Buena Vista	9,919.23	599.63	---	---	---	---
Butler	3,988.95	---	---	---	---	---
Calhoun	1,678.50	15.00	1,950.75	---	2,426.15	---
Carroll	14,610.35	167.60	---	---	---	---
Cass	10,043.71	836.42	---	---	---	---
Cedar	29,146.11	---	---	---	11,232.26	---
Cerro Gordo	14,281.30	4,224.75	3,820.00	9,947.00	---	---
Cherokee	8,973.33	1,328.25	---	---	---	---
Chickasaw	11,392.50	---	---	---	---	---
Clarke	8,498.79	245.00	---	---	---	---
Clay	29,031.93	---	---	---	---	---
Clayton	4,492.61	---	---	---	3,000.00	---
Clinton	16,865.81	1,170.50	---	---	---	---
Crawford	21,868.61	792.00	---	---	---	---
Dallas	37,501.32	1,081.04	---	---	---	---
Davis	9,035.48	---	---	---	---	---
Decatur	---	---	---	---	---	---
Delaware	11,466.10	---	---	---	---	---
Des Moines	3,510.63	650.29	---	---	3,050.00	---
Dickinson	2,930.70	270.00	---	---	4,076.61	---
Dubuque	10,399.81	---	---	---	1,759.76	---
Emmet	7,769.35	---	---	---	3,599.38	---
Fayette	23,007.55	5,539.08	13,596.66	---	1,461.75	\$ 637.47
Floyd	14,904.97	1,413.11	1,354.44	---	---	---
Franklin	6,967.16	---	---	---	---	---
Fremont	2,885.20	---	---	---	---	---
Greene	13,677.22	468.27	---	---	---	---
Grundy	14,711.46	86.00	---	---	---	---
Guthrie	4,574.56	189.20	---	---	---	---
Hamilton	9,494.60	168.97	---	8,760.00	---	5,181.00
Hancock	10,158.36	1,332.01	1,243.00	---	---	---
Hardin	23,204.89	1,323.26	951.35	3,089.42	---	---
Harrison	---	---	---	---	---	---
Henry	311.96	183.23	---	---	---	---
Howard	9,944.17	1,625.21	---	---	---	---
Humboldt	3,165.99	117.30	---	---	---	---
Ida	11,358.04	502.23	---	---	---	---
Iowa	18,425.58	---	---	---	---	---
Jackson	---	---	---	---	---	---
Jasper	43,546.31	262.72	2,721.33	---	---	5,628.80
Jefferson	11,566.38	---	---	---	---	---
Johnson	42,793.14	3,769.75	---	---	---	---
Jones	15,758.87	---	---	---	2,545.10	---
Keokuk	10,239.38	182.25	---	---	3,426.86	---
Kossuth	2,827.66	---	---	---	---	---
Lee	11,867.88	3,438.55	---	---	---	---
Linn	32,292.70	920.61	5,536.50	---	---	---
Louisa	6,138.42	---	---	---	---	---
Lucas	6,830.06	1,390.40	---	---	---	---
Lyon	6,644.53	1,179.90	---	---	---	---
Madison	17,027.24	---	---	---	---	---
Mahaska	27,782.95	1,472.99	---	---	---	---
Marion	17,007.80	1,145.35	---	---	664.50	---
Marshall	3,040.31	479.38	---	---	---	---
Mills	4,629.90	3,893.03	---	---	---	---

SUMMARY TABLE NO 5—PART I—(Continued)

County	Concrete Culverts	Head Walls Constructed and Culverts Lengthened	Concrete Slab Bridges	Concrete Arch Bridges	Concrete Abutments	Concrete Deck Cantilever Girders
Mitchell	4,588.35	275.89				
Monona						
Monroe	6,041.41					
Montgomery	1,337.71	953.85				
Muscatine	8,028.05					1,809.00
O'Brien	10,490.67	673.09				
Osceola	15,458.84	194.27				
Page	31,997.37	3,613.75		12,800.60		
Palo Alto	5,516.12	585.12	61.00			
Plymouth	13,241.46					
Pocahontas						
Polk	28,097.71	4,628.29				
Pottawattamie	11,433.13	705.00				
Poweshiek	14,437.18					
Ringgold	1,148.48					
Sac	16,601.39	1,035.31				
Scott	114,651.95	375.16	21,782.54			
Shelby	19,493.75				5,280.00	
Sioux	7,047.74	4,987.45				
Story	39,295.48					
Tama	43,396.95	372.45				
Taylor	26,143.82	557.18				
Union	1,265.95	455.63				
Van Buren	11,533.76					
Wapello	8,047.52					
Warren	7,692.98					
Washington	7,030.55					
Wayne	14,430.53	503.71				
Webster	2,138.09	12.50				
Winnebago	2,385.16	129.12			19.22	25,538.03
Winneshiek	11,319.99	680.91			1,691.08	
Woodbury	18,776.24	2,747.85				
Worth	13,328.69				978.65	
Wright	11,812.68	156.34				
Total	\$1,337,948.55	\$ 76,725.66	\$ 63,719.54	\$ 73,840.64	\$ 56,878.30	\$ 38,884.36

SUMMARY TABLE NO. 5—PART II

Classification of Permanent Bridge and Culvert Construction for Which Warrants Were Issued in 1923—Primary, County and Township Roads—Annual Report of County Engineers

County	Retaining Walls	I-Beam Spans Concrete Abutments	Pony Truss Concrete Abutments	High Steel Trusses Concrete Abutments	Miscellaneous Permanent Bridges and Culverts	Total
Adair		\$ 7,863.93				\$ 59,683.17
Adams						
Allamakee		4,488.67	\$ 3,107.04			16,219.03
Appanoose			8,853.75		\$ 1,294.25	13,208.00
Audubon						10,222.30
Benton		3,070.40	18,469.39			47,939.02
Black Hawk		5,287.90				23,020.12
Boone		8,873.48	33,661.30	\$ 8,577.06		83,764.37
Bremer		10,342.20	5,404.96			33,901.10
Buchanan					11.50	24,088.81
Buena Vista			3,439.90			10,518.86
Butler			27,207.70			7,428.85
Calhoun		20,255.13				53,583.23
Carroll						14,777.95
Cass						10,880.13
Cedar		8,805.31				49,183.68
Cerro Gordo			23,802.01			56,075.06
Cherokee		25,199.24	5,218.08			40,718.90
Chickasaw						11,392.50
Clarke					209.76	8,953.55
Clay		2,113.50			789.15	31,937.58
Clayton			82,277.74	9,955.68		99,637.03
Clinton		12,608.22	50,816.55			81,461.08
Crawford		4,500.00	7,743.00			24,903.61
Dallas		3,656.94				42,239.30
Davis		4,737.11				13,772.59
Decatur						
Delaware		7,032.68	11,638.61			30,137.39
Des Moines		2,454.66			190.66	6,806.24
Dickinson		832.68	1,616.82			8,700.20
Dubuque						14,476.45
Emmet	116.96					9,646.07
Fayette						46,470.14
Floyd	568.39	6,786.12			1,919.63	28,498.41
Franklin			8,669.13			15,636.29
Fremont						2,885.20
Greene			1,000.00			15,145.49
Grundy		4,737.47	8,686.65			28,221.58
Guthrie			5,785.13			10,548.89
Hamilton	181.05	11,419.68			162.37	35,367.73
Hancock						12,733.37
Hardin		2,876.29	6,991.27		3,501.33	42,027.81
Harrison		3,499.92				3,499.92
Henry					40.40	535.59
Howard		8,294.21	5,147.40	12,920.28		37,931.27
Humboldt		11,449.58				14,723.87
Ida			14,597.51			26,457.78
Iowa						18,425.98
Jackson						
Jasper		21,859.72	6,469.14	71.50		80,549.52
Jefferson						11,566.38
Johnson		11,432.12				57,905.01
Jones		3,109.95	2,539.20			23,944.12
Keokuk						13,848.49
Kossuth						2,827.66
Lee		9,556.95	20,418.11			45,281.49
Linn		18,208.55	12,520.39			69,478.75
Louisa		6,077.82				12,216.24
Lucas						8,330.81
Lyon	110.35					7,824.46
Madison						17,027.24
Mahaska		3,591.58				32,847.43
Marion	232.20	1,885.07				20,934.92

SUMMARY TABLE NO. 6—(Continued)

County	Concrete Pipe	Corrugated Pipe	I-Beam Span Piling Abutments	Pony Trusses on Piling Wood Floor	Wood Trestle Bridges	Wood Truss Bridges	Miscellaneous Temporary Bridges and Culverts	Total
Floyd							4.00	951.81
Franklin	947.81						460.50	12,868.30
Fremonot			3,184.60	569.10	8,663.19		12.00	1,486.39
Greene	81.85		1,392.54					11,724.88
Grundy		1,295.42	5,561.77		4,867.69		2,267.21	6,480.54
Guthrie		108.00			900.90	3,204.43		1,147.41
Hamilton		1,147.41						6,744.95
Hancock		936.00			5,808.95			7,180.50
Hardin		1,846.71			5,313.79		20.00	960.20
Harrison	927.20						33.00	227.71
Henry				158.61			69.10	3,630.21
Howard					3,659.21			16.25
Humboldt							16.25	3,127.00
Ida	135.26	2,991.74						1,006.32
Iowa					1,006.32			1,456.65
Jackson		2,251.42	247.35		1,456.65			1,810.26
Jasper								3,668.23
Jefferson		312.64			165.85		1,391.77	3,029.66
Johnson		1,609.60			428.72		256.12	2,526.20
Jones	2,692.78				80.76			5,325.59
Keokuk		984.52			1,541.68			1,843.36
Kossuth		2,013.83			3,311.76			14,834.14
Lee		1,557.36						936.74
Linn		5,225.35			9,638.79			297.48
Louisa		936.74						7,797.20
Lucas		179.28			118.20			4,845.12
Lyon	2,336.40	5,490.80						580.20
Madison		2,211.78			2,633.34			4,606.74
Mahaska		580.20						1,323.27
Marion		130.84			4,565.90			9,891.47
Marshall	81.84	919.93			321.50			317.00
Mills		1,075.92		2,326.57	4,013.11	2,475.87		326.80
Mitchell								10,994.70
Monona		317.60						103.61
Monroe		326.80						
Montgomery	413.10	266.30		1,480.25	8,677.48		157.57	
Muscatine	63.35						40.26	

O'Brien	1,962.26							1,962.26
Osceola	432.98				3,871.84			4,304.82
Page	1,561.12	1,025.86			1,606.60		849.58	5,043.16
Palo Alto	138.25	88.53						226.83
Plymouth		704.98	6,324.99	6,140.00	5,159.22		9.65	18,338.94
Pocahontas		1,002.58				5,227.91	180.75	6,481.24
Polk	204.48	4,506.47			4,161.26			8,875.21
Pottawattamie	79.50	1,380.04	2,571.32		44,142.92		1,776.45	49,950.23
Poweshiek				5,837.00				5,837.00
Ringgold		2,165.29			658.89	1,174.50	1,330.46	5,329.24
Sac		138.60			99.39			237.00
Scott		2,841.40					81.76	2,923.16
Shelby		3,832.64	1,303.94		14,230.75			19,367.33
Sioux	6.00	3,203.62			2,248.11		2,251.11	7,708.84
Story					2,700.00			2,700.00
Tama		5,870.34						5,870.34
Taylor	921.76	180.43				2,926.07		4,028.26
Union	523.32	1,216.55			371.95		796.87	2,908.69
Van Buren							900.00	900.00
Wapello	3.00				3,923.77		7.75	3,934.52
Warren		727.68			5,893.39		1,696.62	8,317.69
Washington								
Wayne		6,750.16			7,904.83			14,654.99
Webster		518.73	16.60		327.07		381.84	1,244.24
Winnebago		255.00						255.00
Winneshiek		238.80	553.35	540.35	540.50		682.40	2,555.49
Woodbury	2,668.52		4,811.94	2,289.98	5,901.50			15,671.94
Worth		167.40						167.40
Wright								
Total	\$ 27,729.64	\$ 84,692.14	\$ 43,904.69	\$ 37,296.18	\$ 223,659.51	\$ 15,310.02	\$ 23,659.13	\$ 456,569.71

SUMMARY TABLE NO. 7

Showing Cost of Repairs on Bridges and Culverts and Culvert Material Purchased for Townships—Annual Report of County Engineers

County	Repairs				Total Cost Repairs	Materials Purchased for Townships				
	Wooden Bridges and Culverts	Temporary Bridges and Culverts	Permanent Bridges and Culverts	Miscellaneous Repairs		Corrugated Pipe	Concrete Pipe	Lumber	Miscellaneous Material	Total Township Material
Adair	\$ 6,688.27				\$ 6,688.27		\$ 7,483.11	\$ 979.19		\$ 8,462.30
Adams	4,925.00				4,925.00		4,591.05	314.51		4,905.56
Allamakee	16,465.86	\$ 797.84	\$ 985.03	\$ 777.09	19,025.82		1,600.00			1,600.00
Appanoose	8,722.26	5,853.47		2,114.40	16,690.13	1,674.38		1,002.59	\$ 7,957.60	10,634.57
Audubon	8,342.70		1,994.12	1,049.21	11,386.03	6,672.84		3,053.05		9,725.89
Benton	7,657.74		627.50		8,285.24	2,982.84		2,043.10		5,025.94
Black Hawk	8,792.79	820.49	219.54	129.60	9,922.42	1,815.00		65.20		1,910.20
Boone	1,057.34	70.08	3,933.95		5,061.37		194.45			194.45
Bremer	5,001.85	3,158.02	316.50		8,476.37	3,728.52		827.23		4,555.81
Buchanan	13,164.09	53.25	2,321.52	1,100.42	16,639.28	5,103.65				5,103.65
Buena Vista	120.62	3.58	178.36		302.56	2,686.04			132.87	2,818.91
Butler	10,913.98	3,254.79	626.69	1,983.54	16,778.91	1,117.87				1,117.87
Calhoun	50.22	1,286.62		1,008.99	2,345.73	38.50	1,657.53			1,696.03
Carroll	7,440.33	709.30	130.40		8,280.03	1,449.78		8,892.92	406.20	11,463.60
Cass	29,019.50	58.40	4,151.58	1,508.37	34,827.85	3,061.03	624.70		62.00	3,123.03
Cedar	14,110.11	2,760.02	228.80	26.41	17,125.34	1,737.88		116.30		1,854.18
Cerro Gordo	2,832.34	2,275.35	114.65		5,222.34	1,720.80		253.55		1,974.35
Cherokee	4,833.51	2,200.33	830.34		7,864.18	7,489.84	4.00	29.75		7,519.59
Chickasaw	5,048.20		308.25		5,356.45			828.00		828.00
Clarke	10,686.45	179.85	87.20	269.61	11,223.11	4,327.42		6,492.19	3,316.40	14,136.01
Clay	2,262.82	741.15			3,003.97	3,555.30	230.17			3,785.47
Clayton	737.28		958.05	4,213.26	5,908.59	3,504.08		2,122.71		5,626.79
Clinton	4,100.75	4,050.04	684.88		8,835.67	4,287.26			73.76	4,361.02
Crawford	32,286.92				32,286.92	8,024.75				8,024.75
Dallas	7,464.64	5,138.95	34.20	30.64	12,668.43	3,193.20	2,797.11		6.79	5,997.16
Davis	14,640.27	265.77	586.36		15,492.40		2,107.54			2,107.54
Decatur	17,671.65	4,130.64	1,884.70		23,686.99	4,787.72		734.84		5,522.56
Delaware	6,121.60	2,511.40	6.00	128.00	8,767.00	4,374.78		251.12		4,625.90
Des Moines	87.40	1,021.10	2,005.26	74.91	3,788.67	3,272.86				3,272.86
Dickinson	718.21	96.03	2,388.55		3,202.79		1,730.00			1,730.00
Dubuque	7,714.86	8,842.65	728.91		17,286.42	3,701.21				3,701.21
Emmet	1,692.34	16.00	1,578.72	367.07	3,684.13		1,294.33			1,294.33
Fayette	16,606.61		620.06		17,226.67	1,757.14				1,757.14

Floyd	4,925.39	2,480.21	263.27	1,355.48	9,024.35	788.00		1,075.20	78.75	1,941.95
Franklin	13,006.93		206.40		13,213.33	2,798.57				2,798.57
Fremont	12,778.11	9,643.45	1,763.50	1,976.76	26,161.82		1,191.40	1,846.50		3,037.90
Greene	9,955.19	2.00	1,790.38	478.26	12,225.83		4,391.66			4,391.66
Grundy	3,701.97		8,503.46	319.80	12,615.23	3,886.25				3,886.25
Guthrie	11,151.12	366.30	1,281.58	2,816.42	15,615.42	4,720.01		351.56	152.42	5,223.99
Hamilton	447.44	3,023.72	84.83		4,155.99	1,721.11			318.30	2,039.41
Hancock	4,751.68				4,751.68	3,614.50				3,614.50
Hardin	5,496.03	2.90	177.85	17.20	5,693.98	2,016.00				2,016.00
Harrison	35,976.00	9,340.30	24.20	44.95	45,386.05	1,491.30		33.30		1,526.00
Henry	4,500.00	9,497.00		316.70	14,313.70	5,026.36		177.00	2.80	5,206.16
Howard	2,690.66	4,740.60	2,067.26	732.55	10,291.07	1,912.84				1,912.84
Humboldt	33.40	181.15	2,009.63	1,183.40	3,406.98	1,502.06				1,502.06
Ida	7,950.79			222.25	8,173.04	4,681.23		356.59	21.24	5,069.06
Iowa	8,773.95	685.06	531.30		9,990.31	3,985.00		3,008.11	98.00	7,181.71
Jackson	10,423.31	20,297.51	970.51	1,785.18	33,476.51	2,688.12				2,688.12
Jasper	16,094.71		1,690.93		17,785.64			41.26		41.26
Jefferson	1,679.21	3,313.41	1,888.31	3,124.85	10,005.78	3,886.22		1,451.46		5,346.68
Johnson	5,284.98	6,123.98	93.04	1,072.23	12,574.23	2,667.65	15.00	1,208.76	44.55	3,935.96
Jones	24,635.00	3,247.42		54.78	27,937.20	2,504.00		1,971.82	31.18	4,507.00
Keokuk	7,192.06	979.32	284.85		8,456.23	2,472.84	201.00	2,067.86	20.15	4,762.45
Kossuth	4,681.15	4,028.65	1,586.35	205.84	11,491.99	3,073.86				3,073.86
Lee	11,888.11				11,888.11	3,112.42				3,112.42
Linn	10,305.40	9,474.74	4,445.93		24,226.07	5,225.34				5,225.34
Louisia	1,251.95	7,255.75	120.00	3,947.64	11,675.34	2,522.14			22.70	2,544.84
Lucas	6,867.02	49.20		137.50	7,003.72	2,691.18		7.65	5.25	2,698.68
Lyon	12,020.16	1,977.92	61.10	15.00	14,974.18	3,116.17	809.54	127.18		4,142.89
Madison	14,863.38	25.28	18.75		14,907.41	9,009.26				9,009.26
Mahaska	5,661.07	3,689.92	788.74	487.85	10,677.58	5,329.22				5,329.22
Marion	7,519.85	5,053.00			12,572.85	2,454.56		2,200.00		4,654.56
Marshall	2,316.34	1,453.07	46.01		3,815.42	5,087.22		451.89	3.55	6,442.66
Mills	15,170.95	23.10	3,228.49	3,864.57	22,287.11	3,226.38		239.54		3,465.92
Mitchell	2,222.77			12,912.05	15,134.82	577.84				577.84
Monona	16,590.79	447.63	188.67	357.48	17,574.57	5,925.22	398.40		235.00	6,328.62
Monroe	9,890.49	992.78			10,883.27	3,048.32			277.00	3,325.32
Montgomery	10,124.50	601.05	199.14	276.37	11,201.06	2,808.97	1,128.25		487.61	4,484.83
Muscatine	32.71	8,336.71	204.84		8,574.26	2,024.96		22.79		2,047.75
O'Brien	5,945.82		570.39		6,516.21		1,168.38	815.87		2,084.25
Oseola	1,326.42		365.02		1,691.44		2,416.10	352.00		2,768.10
Page	16,176.35	4,271.10		1.75	20,449.20	4,787.00	802.80	89.86	82.43	5,762.09
Palo Alto	2,406.51	636.32	112.36	48.38	3,203.57	3,046.45	229.20		60.00	3,325.65
Plymouth	17,065.36	1,482.27			19,447.63	4,282.67		561.87	15.72	4,899.26
Pocahontas	1,510.83	4,508.39	431.80	29.45	6,540.47	1,080.09				1,080.09
Polk	6,246.40	6,246.39	1,216.40		13,709.19	5,094.91	435.83			5,440.74
Pottawattamie	19,328.65	5,568.61	1,568.08	37.97	26,732.31	7,236.81		62.90	24.00	7,323.71
Poweshiek	15,988.05		709.50	3.17	16,700.72	6,236.86				6,236.86
Ringgold	17,486.65		1,070.16		18,556.81	1,195.63	627.95	7,148.61		8,972.49
Sac	984.15	686.03	1,165.25	77.48	2,912.91	3,286.00		35.47	11.02	3,332.49

SUMMARY TABLE NO. 7—(Continued)

County	Repairs					Materials Purchased for Townships				
	Wooden Bridges and Culverts	Temporary Bridges and Culverts	Permanent Bridges and Culverts	Miscellaneous Repairs	Total Cost Repairs	Corrugated Pipe	Concrete Pipe	Lumber	Miscellaneous Material	Total Township Material
Scott	735.88	590.54	184.21	381.50	1,892.13	2,200.48				2,200.48
Shelby	14,151.07	3,909.00			18,120.07	7,089.90	9.00			7,098.90
Sioux	9,482.88	6,207.22			15,690.10	1,945.96		3,251.95	319.87	5,517.78
Story	10,168.25	326.70			10,494.95	3,225.00				3,225.00
Tama	22,458.46		456.10	65.80	23,480.36	5,000.41				5,000.41
Taylor	6,062.51	2,409.15	961.22		9,472.88	378.64	130.48	1,672.56		2,181.68
Union	4,751.74		291.86	544.12	5,587.72	8,200.27			191.01	8,451.28
Van Buren	1,598.25	22,487.27	285.00	1,508.58	25,879.10			3,500.00	12.00	3,512.00
Wapello	3,953.95	133.60	404.34	30.10	4,522.99	2,680.19				2,680.19
Warren	5,221.60	4,253.37		208.85	9,773.82	3,791.45	146.45	728.45	19.74	4,686.00
Washington	2,970.25	4,252.33		14,479.83	21,702.41	3,338.24		2,134.87	1.50	5,474.61
Wayne	5,525.08	318.45		375.66	6,219.19	4,927.36		1,292.97	319.60	6,539.93
Webster	9,497.75	7,292.28	64.00	713.66	17,567.69	3,839.08	1,032.30	13.00		4,884.47
Winnebago	1,293.95		91.00	427.16	1,712.11	1,945.65		2,382.93		4,328.58
Winneshiek	2,758.59	9,442.38	733.86	451.26	13,385.99	994.40		1,610.33	4.00	2,608.73
Woodbury	12,726.35	7,158.57	231.50		20,116.42	1,840.20	45.00			1,885.11
Worth	1,581.53		590.33		2,171.86	2,945.41				2,945.41
Wright	8,118.58				8,708.91					
Total	\$ 828,604.90	\$ 262,250.00	\$ 76,005.28	\$ 72,050.35	\$1,238,910.53	\$290,522.43	\$ 47,537.12	\$ 70,360.72	\$ 15,001.52	\$ 423,421.79

SUMMARY TABLE NO. 8

Bridge Equipment Unused Material—Filling Bridges and Culverts and Special Cases—Annual Report of County Engineers

County	Equipment and Material			Filling Bridges and Culverts	Special Cases				
	Equipment and Repairs	Material Purchased and not used	Total		Right of Way	Moving and Re-erecting Old Spans	Channel Change	Miscellaneous	Total
Adair	\$ 2,749.89	\$ 366.61	\$ 3,116.50	\$ 4,503.80		\$ 112.82	\$ 829.81		\$ 942.63
Adams	77.18	4,069.94	4,147.12	107.35			333.00	\$ 292.40	596.39
Allamakee	2,035.22	2,698.00	4,733.22	50.00	\$ 20.00		1,348.50	1,324.19	2,692.69
Appanoose	2,004.23	5,798.36	7,802.59	1,071.91	573.95	6,254.36	1,360.89		8,189.20
Audubon	3,107.44		3,107.44	11,405.33	15.00				15.00
Benton		658.34	658.34	83.00			5,365.51		5,365.51
Black Hawk	14.75	4,497.36	4,512.11	867.22	531.00	125.00		8,585.16	9,241.16
Boone	3,188.48	677.16	3,865.64	3,237.15	200.00		3,250.28	110.07	3,560.35
Bremer	1,536.53	6,111.57	7,648.10	123.00	50.00		4,358.43		4,408.43
Buchanan	7.00		97.69	632.13			1,432.70	475.95	1,908.65
Buena Vista	536.75	900.00	1,436.75	97.69			46.58	238.07	284.65
Butler	873.31	4,346.80	5,220.11	1,911.82	806.00		13.50	15.00	924.50
Calhoun	1,313.87	6,991.91	8,305.78	429.16	150.00	193.82			343.82
Carroll	1,335.67	3,414.23	4,749.90	1,846.46	265.00	699.50	915.72	511.20	2,431.42
Cass	2,650.42		2,650.42	4,090.90	19.35				124.35
Cedar	17.70		17.70			1,075.66	811.51		1,887.17
Cerro Gordo	889.62	3,160.31	4,049.93	2,875.40			1,558.16	540.00	2,078.16
Cherokee	31.53	1,500.27	1,531.80	1,364.26	102.75		3,033.86	82.96	3,219.51
Chickasaw	563.26	980.00	1,543.26	19,500.70			5,012.68		5,012.68
Clarke	396.74	1,521.70	1,918.44	6,897.32	610.00				610.00
Clay	106.77		106.77	154.20			180.00		180.00
Clayton				4,451.68	5.00	4,545.32	340.48		4,890.80
Clinton		3,177.96	3,177.96	1,135.28	177.13				177.13
Crawford				646.05	790.68	2,792.48	1,746.83		5,976.04
Dallas	888.56	2,770.00	3,658.56	5,142.89	25.00	2,941.27	372.52		3,138.79
Davis	3,791.19	1,184.10	4,975.29	4,446.55		1,369.67		626.08	2,397.75
Decatur	6,910.81	1,280.61	8,191.42	4,013.02	185.00	3,853.67			4,638.67
Delaware	30.91	674.38	705.29	4,882.00			661.80		661.80
Des Moines	3,433.76	1,390.67	4,824.43			5,716.94		350.48	6,075.52
Dickinson				112.00				280.00	280.00
Dubuque	888.02		888.02	93.80	93.40		1,378.97	997.42	2,449.79
Emmet	30.23		30.23			250.25	140.00		420.25

SUMMARY TABLE NO. 8—(Continued)

County	Equipment and Material			Filling Bridges and Culverts	Special Cases				
	Equipment and Repairs	Material Purchased and not used	Total		Right of Way	Moving and Re-erecting Old Spans	Channel Change	Miscellaneous	Total
Fayette	1,431.39	7,850.57	9,281.96	3,560.75	15.00	1,460.00	461.07	2,337.37	4,213.61
Floyd	1,541.15	13,275.68	14,816.83	4,504.25	1,122.00	10,098.65	475.00		11,095.65
Franklin	1,059.02	1,200.00	2,259.02	628.10	75.00				267.25
Fremont	330.34	7,004.71	7,335.05	2,064.19	36.10	1,173.22			1,209.32
Greene	287.94		287.94	97.55					
Grundy				3,217.10					
Guthrie	2,272.92	4,000.00	6,272.92	1,475.65			415.40	90.00	505.40
Hamilton							177.26		177.26
Hancock	17.00		17.00	37.00	530.00	154.72	36.86	378.00	1,099.58
Hardin	197.92	2,000.00	2,197.92	5,111.59	211.50		203.10		414.60
Harrison	340.50	11,000.00	11,340.50		226.00	106.38		7.08	339.46
Henry	1,171.53		1,171.53	113.00	195.00				380.10
Howard	1,578.36	2,247.07	3,825.43	1,141.73				1.00	1.00
Humboldt	790.58	630.24	1,420.82	30.20	10.00		20.00		30.00
Ia	1,626.85	5,474.26	7,101.11	852.04					
Iowa	871.75		871.75	166.00				1,265.00	1,205.00
Jackson	1,047.76		1,047.76	99.77	1,524.31	1,556.21			3,105.52
Jasper	113.02		113.02	551.00	12,162.72	4,340.70	25.00		16,563.42
Jefferson	8,148.09	5,050.00	13,198.09	1,886.75		1,094.30			1,094.30
Johnson	3,075.08	5,252.39	8,327.47	149.32		701.39		2,826.37	3,527.76
Jones		38.15	38.15	329.80					985.25
Keokuk	480.74	6,893.00	7,373.74	506.50	337.25	972.82	778.05	3,950.19	5,710.06
Kossuth				375.20					
Lee	4,632.79	8,474.14	13,106.93	6,126.71					
Linn		10,290.00	10,290.00	8,313.20	1,304.01			473.04	1,777.05
Louis	605.02		605.02	229.97		300.46			300.46
Lucas	522.34	1,273.11	1,795.45	925.50					
Lyon	970.16	6,048.12	7,018.28	155.00				402.35	402.35
Madison	3,657.63	2,957.97	6,615.60	8,296.87		4,424.38			4,424.38
Mahaska	644.00	3,390.15	4,034.15	762.40		410.20	477.00		887.20
Marion		13,112.00	13,112.00	2,444.05				130.00	130.00
Marshall	854.50	4,361.77	5,216.27	3,025.58				939.01	1,375.51
Mills	624.19	1,345.68	1,969.87	874.19	12.50		424.30	2,006.41	2,006.41
Mitchell	1,258.16	5,582.38	6,840.54						1,806.12
Monona	438.63		438.63		1,184.50	5,533.04	1,836.12	29.40	6,447.58
Monroe	600.00	2,000.00	2,600.00	1,077.62	133.10		1,078.04		133.10

Montgomery	3,315.01	698.44	4,013.45	808.30	12.00	4,712.24		1,291.17	6,015.41
Muscatine	440.60	1,383.60	1,824.20	3.00	2,010.00	308.66	229.88	2,500.90	5,139.44
O'Brien	1,183.14	6,417.77	7,600.91	314.75	182.10		1,025.99	1,073.45	2,281.54
Osceola	39.00	1,700.00	1,739.00	132.40				75.10	75.10
Page	3,720.69	950.00	4,670.69	24,058.83	11.10	4,436.36		4,032.86	8,480.32
Palo Alto		980.75	980.75	622.50	300.00	2,724.72	102.25		3,126.97
Plymouth	1,498.62	12,492.42	13,991.04	1,545.77	1,209.40	1,935.10	5,220.82	160.33	8,586.65
Pocahontas	259.04	3,308.72	3,567.76	2,522.08	50.00	6,427.00			6,477.00
Polk	2,610.95		2,610.95	1,786.58					
Pottawattamie	4,902.56	33,608.76	38,511.32	2,121.52	80.74	4,655.66		2,967.57	7,708.97
Poweshiek	17.65		17.65	2,070.74	223.00		810.51	1,402.40	2,435.91
Ringgold	343.14	3,660.84	4,003.98	492.00		72.25			72.25
Sac	941.87	1,059.65	2,001.52	311.08	140.00	3,080.64	2,503.59	57.67	5,781.90
Scott	4,625.39	15,506.19	20,131.58	8,280.18			617.61		617.61
Shelby	584.89	506.25	1,091.14	11,556.09	281.55	1,221.75	612.50	128.60	2,244.40
Sioux	1,103.71	2,237.74	3,341.45	395.95		69.00	121.70	263.88	454.58
Story	65.00		65.00	1,455.45	68.71			494.57	563.28
Tama	297.05	3,000.00	3,297.05	1,738.95			1,029.50	130.71	1,160.21
Taylor	1,214.31	10,543.95	11,758.26	2,134.83		1,943.20			1,943.20
Union	1.75	4,262.00	4,263.75	1,069.70	475.00	68.70			542.70
Van Buren	3,675.00	4,750.00	8,425.00	465.25	25.00				25.00
Wapello	117.55	708.22	825.77			7.50		76.50	84.00
Warren	663.58	5,185.41	5,849.00	3,871.50	34.80	2,029.57		872.77	2,937.14
Washington	643.20	3,841.79	4,484.99	243.70			3,766.61	35.60	3,802.20
Wayne	2,374.86	4,759.93	7,134.79	1,906.53	35.00	2,361.38		472.08	2,765.46
Webster	240.13	193.30	433.43	2,433.27		153.31			153.31
Winneshiek		2,881.80	2,881.80						
Winneshiek	466.61	2,221.48	2,688.09	1,631.41	173.50	384.23	468.76	449.55	1,476.04
Woodbury	1,721.90	8,053.00	9,774.90	911.38	65.00	709.05	85.15	2,542.74	3,491.94
Worth				227.10		1,374.42			1,374.42
Wright				36.00					
Total	\$ 117,484.78	\$ 324,335.12	\$ 441,820.00	\$ 201,404.34	\$ 20,201.52	\$ 98,065.18	\$ 50,247.45	\$ 50,737.80	\$ 237,251.95

SUMMARY TABLE NO. 9—(Continued)

County	Jan. 1, 1918	Jan. 1, 1919	Jan. 1, 1920	Jan. 1, 1921	Jan. 1, 1922	Jan. 1, 1923	Jan. 1, 1924	Total Fiscal Year
	Jan. 1, 1918	Jan. 1, 1919	Jan. 1, 1920	Jan. 1, 1921	Jan. 1, 1922	Jan. 1, 1923	Jan. 1, 1924	
Adair	66,371.78	100,000.48	194,069.18	354,609.18	525,306.54	825,306.54	61,007.80	202,472.50
Adams	135,408.29	100,461.11	65,300.00	65,300.00	129,206.00	67,200.00	67,200.00	60,803.50
Albany	30,224.45	30,644.52	44,300.00	44,300.00	51,125.85	51,125.85	51,125.85	202,274.15
Alcona	65,003.20	55,809.82	67,144.63	67,144.63	19,022.29	36,720.01	50,740.11	272,700.04
Appanoose	61,822.02	42,106.14	57,000.00	57,000.00	66,100.00	10,100.00	10,100.00	211,022.02
Archer	50,138.43	50,138.43	50,138.43	50,138.43	50,138.43	50,138.43	50,138.43	426,000.00
Ashtabula	50,322.01	42,715.97	52,005.16	52,005.16	69,551.31	30,000.00	54,135.13	306,502.91
Atchison	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Bandera	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Barber	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Bay	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Becker	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Benett	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Benton	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Black Hawk	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Boone	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Boonville	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Butler	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Calhoun	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Carroll	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Cass	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Cedar	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Cerro Gordo	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Cherokee	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Chickasaw	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Clarke	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Clay	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Clayton	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Clinton	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Crawford	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Dallas	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Davis	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Decatur	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Delaware	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Des Moines	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Dickinson	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Dubuoque	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Emmet	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Fayette	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Floyd	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Franklin	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Fremont	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Greene	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Grundy	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Guthrie	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Hamilton	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Hancock	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Harlan	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Harrison	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Henry	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Howarth	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Humboldt	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Ia	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Iowa	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Jackson	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Jasper	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Jefferson	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Johnson	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Jones	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Keokuk	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Kossuth	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Lee	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Linn	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Louis	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Lucas	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Lyon	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Madison	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Mahaaka	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Marion	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Marshall	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Mills	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Mitchell	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Monroe	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Monroe	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Montgomery	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Muscataine	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	50,000.00	400,000.00
Total	66,808,818.16	66,808,720.43	66,808,720.43	66,808,720.43	66,808,720.43	66,808,720.43	66,808,720.43	642,727,105.56

SUMMARY TABLE NO. 10

Classification of Road Work—County Roads—Annual Report of County Engineers

County	Construction	Maintained	Special Cases	Total
	\$	\$	\$	\$
Adair	1,254.96	28,402.53	5,251.19	34,908.68
Adams	627.03	41,256.08	0.00	41,883.11
Albany	401.70	24,551.48	3,796.80	28,749.97
Appanoose	130.20	25,442.62	15,408.29	54,281.11
Ashtabula	45,700.88	45,700.88	376.74	91,778.50
Benton	23,067.02	21,754.51	3,221.05	48,042.58
Black Hawk	79,278.16	29,415.22	5,497.88	114,191.26
Boone	11,008.90	14,008.90	1,203.81	26,221.61
Boonville	1865.00	15,880.81	5,408.97	22,354.78
Bremmer	2,484.48	22,908.54	1,125.44	26,518.46
Buena Vista	2,806.23	2,806.23	363.70	5,976.16
Butler	31,720.50	16,150.50	4,000.12	51,871.12
Calhoun	2,180.54	17,812.16	3,900.37	23,913.07
Cass	16,761.90	16,761.90	2,500.00	36,023.80
Cedar	39,951.23	5,308.15	5,308.15	50,567.53
Cerro Gordo	34,281.01	20,981.18	3,908.91	59,171.10
Cherokee	9,481.05	11,054.28	5,878.91	26,414.24
Chickasaw	17,400.78	4,004.07	472.40	21,877.25
Clarke	20,720.00	20,286.87	4,030.45	45,037.32
Clay	4,002.80	39,394.50	2,417.20	45,814.50
Clayton	51,135.13	16,402.83	6,031.79	73,570.75
Clinton	28,250.80	25,680.50	498.22	54,430.52
Crawford	22,219.05	22,219.05	19,461.78	63,910.88
Dallas	22,875.79	22,875.79	900.95	46,552.53
Davis	28,791.63	28,791.63	281.66	57,864.92
Decatur	6,110.30	15,327.10	29.00	21,466.46
Delaware	15,367.32	5,067.10	1,123.10	21,557.52
Des Moines	15,941.25	19,168.44	10,000.00	45,110.69
Dickinson	331.21	1,123.10	29,221.45	30,675.76
Dubuoque	12,745.12	9,006.77	566.81	22,318.70
Emmet	1,820.74	54,865.45	8,025.39	64,711.5

County	Finished Grade Standard Section		Gravel, Macadam and Sand Clay Surfacing		Paving		Tiling and Drainage Assessments	Equipment and Tools	Total Expenditure
	Miles Built	Total Warrants Issued	Miles Built	Total Warrants Issued	Miles Built	Total Warrants Issued			
Franklin		780.00	5.00	7,441.50			2,750.34		10,972.74
Fremont									
Greene	.75	532.75	2.00	4,096.82			642.35	632.66	6,824.58
Grundy	2.25	7,585.35	5.00	8,510.78			7,222.84	1,000.00	24,118.97
Guthrie							5,739.05		3,730.05
Hamilton	1.25	3,200.25	12.25	15,933.26			4,100.44		23,293.95
Hancock							2,004.80		2,004.80
Hardin	6.57	9,391.40	8.66	10,170.86			4,281.85		23,844.11
Harrison							858.00		858.00
Henry							34.00		34.00
Howard							8,181.65	1.60	8,183.25
Humboldt	3.75	966.74	13.50	8,650.64			1,007.22		11,284.60
Ida	7.70	23,465.78							23,465.78
Iowa									
Jackson								343.35	343.35
Jasper				400.50			508.11		908.61
Jefferson							253.15		253.15
Johnson	1.37	13,878.51							13,878.51
Jones			.25	718.43			21.17		739.60
Keokuk									
Kossuth	12.00	13,445.95	21.00	21,619.96			11,623.97	7,234.82	53,924.70
Lee									
Linn	21.86	41,727.74	17.00	49,100.41			7,787.71		98,615.86
Louisa									
Lucas									
Lyon	23.00	43,582.30	5.50	8,881.74					52,464.04
Madison									
Mahaska							11.20		11.20
Marion							20.00		20.00
Marshall		1,389.41	13.25	26,687.80			204.38	423.41	28,765.00
Mills									
Mitchell	5.10	13,076.88					336.00		13,412.88
Monona									
Monroe									
Montgomery							193.13	651.17	844.30
Muscataine		99.02	.50	246.53			6.97		352.52
O'Brien	1.23	1,291.06	9.60	12,704.10			622.07		14,617.23

Osceola			.70	552.15			4,307.40	2,966.00	4,859.55
Page							989.60		2,906.90
Palo Alto	5.50	11,027.64		1,608.87					13,636.11
Plymouth	2.33	11,401.04	.58	1,545.98			3,779.54		12,946.12
Pocahontas	3.00	211.83	3.00	2,028.18			18,705.54	17.00	7,019.55
Polk	17.50	61,681.71	10.00	10,674.58					91,078.83
Pottawattamie		911.92							911.92
Poweshiek	.34								
Ringgold			1.02	4,365.76			140.15		4,505.91
Sac	6.47	19,647.83	7.47	42,662.20			4,368.53		66,678.56
Scott							41.80		41.80
Shelby			1.75	1,908.50					2,435.15
Stoux	2.00	526.59	.25	2,678.72			9,388.66	145.43	12,212.81
Story							686.09		686.09
Tama									
Taylor									
Union									
Van Buren									
Wapello							405.98		405.98
Warren									
Washington									
Wayne				927.62			269.46		11,229.03
Webster	2.00	10,031.95	1.00	10,082.94			16,331.69		37,839.71
Winneshiek	6.72	11,416.17	7.02	19,980.84					36,812.52
Winnebago	3.90	16,861.68	3.90	12,342.69					36,721.85
Winneshiek	20.67	24,378.80	5.42				943.32		943.32
Woodbury				9,408.90			4,198.91		18,968.47
Worth									
Wright	3.00	5,390.66	6.75						
Total	230.57	\$ 532,445.26	280.17	\$ 454,922.47			\$ 176,752.31	\$ 17,165.45	\$ 1,181,265.40

SUMMARY TABLE NO. 12

Showing Cost of Maintenance—County Roads—Annual Report of County Engineers

County	Miles County Road System	Patrol		Gang		Equipment and Tools		Total Cost Maintenance	Average Cost Per Mile
		Earth	Gravel	Earth	Gravel	Earth	Gravel		
Adair.....	100.40	\$ 1,867.95		\$ 16,531.11		\$ 10,064.47		\$ 28,463.53	\$290
Adams.....	165.25	10,540.40		4,011.64		2,148.77		16,700.81	159
Allamakee.....	107.50	9,113.60		24,244.34		7,938.14		41,296.08	384
Appanoose.....	114.75	8,262.15		5,985.48		10,303.85		24,551.48	214
Audubon.....	96.90	10,606.82		10,613.68		2,222.12		23,442.62	242
Benton.....	152.25	23,392.73		4,669.16		17,647.99		45,709.88	300
Black Hawk.....	126.50	14,540.18	\$ 4,068.82	60.00		2,794.97	\$ 200.54	21,754.51	172
Boone.....	113.25	2,819.04	9,130.98	13,473.92	\$ 979.70	811.49	2,200.00	29,415.22	260
Bremer.....	60.50	10,043.64	543.00	2,244.43		1,758.48	79.35	14,098.90	242
Buchanan.....	135.00	10,419.45		2,561.07		2,900.39		15,880.81	114
Buena Vista.....	105.05	147.00	28,737.24		1,227.85		2,856.45	32,968.54	314
Butler.....	136.50	19,375.44	729.10			3,466.76		23,571.30	173
Calhoun.....	102.65	1,877.10	5,647.74			710.21	2,564.00	16,159.50	157
Carroll.....	119.50	10,226.01		5,514.86		2,071.29		17,812.16	149
Cass.....	86.50	9,089.44		4,894.32		2,720.14		16,703.90	193
Cedar.....	84.60	8,907.20		5,029.05		6,076.53		20,013.38	237
Cerro Gordo.....	111.54	5,760.37	5,802.72	1,536.86	\$4,778.79	1,744.03	1,358.41	20,981.18	188
Cherokee.....	111.50	8,706.39		2,582.68		1,745.41	446.40	14,054.58	126
Chickasaw.....	117.00	2,724.22	1,011.92			582.00	285.93	4,604.07	39
Clarke.....	79.85	2,438.23		2,158.09		18,601.86		23,198.18	291
Clay.....	117.50	708.77	17,633.03	171.54		393.20	1,380.33	20,286.87	173
Clayton.....	130.30	16,876.87		4,732.62		14,566.01		36,204.50	278
Clinton.....	128.00	11,200.12	101.00	2,281.57	1,276.90	1,632.71		16,492.30	129
Crawford.....	75.00	6,667.66		4,891.72		14,130.20		25,689.59	340
Dallas.....	96.07	5,619.47	7,546.21	1,565.50	76.96	4,794.64	2,616.27	22,219.05	231
Davis.....	132.60	9,747.85		6,560.17		6,567.77		22,875.79	173
Decatur.....	126.23	16,309.83		3,292.88		7,040.84		26,703.55	212
Delaware.....	139.09	9,382.92	2,866.30	1,461.62		1,042.68	532.58	15,257.10	110
Des Moines.....	47.75	12,173.28		1,788.04		1,636.00		15,597.32	327
Dickinson.....	70.00	3,675.37	6,943.36			1,774.14	3,548.28	15,941.25	226
Dubuque.....	91.65	5,757.64	1,108.00	5,031.41	2,960.50	3,308.05	1,000.00	19,168.60	209
Emmet.....	63.25		7,529.50	494.53		919.07		9,065.77	152
Fayette.....	121.10	14,539.12		28,307.65		6,531.08	5,484.60	54,865.45	453
Floyd.....	96.78	5,039.44	972.57	1,126.77	320.49	1,462.54		9,196.65	95

Franklin.....	159.25	9,935.89	8,210.86	973.05	1,623.90	1,650.95	3,805.18	26,295.83	165
Fremont.....	120.00	13,586.53		5,468.00		955.10		20,049.63	167
Greene.....	69.25	4,757.86	2,986.83	170.29	1,564.79	1,719.88	499.11	11,698.76	160
Grundy.....	120.51	6,757.35	250.50	3,532.78		3,258.46	264.26	13,803.35	115
Guthrie.....	126.45	9,874.23	130.15	4,929.86		1,964.97		17,777.91	141
Hamilton.....	153.10	2,536.75	7,102.98	3,358.22	878.70	5,130.00	7,227.10	32,163.58	210
Hancock.....	112.00	12,339.29	1,188.69	2,143.22		430.47	39.72	16,141.39	143
Hardin.....	132.45	12,657.87	6,727.36	2,022.21	1,417.34	4,249.08	1,712.98	28,186.84	213
Harrison.....	91.50	7,931.99		1,313.83		979.96		10,253.78	109
Henry.....	96.00	9,346.26		6,436.55		7,897.34		23,680.15	247
Howard.....	87.18	6,756.55	659.63	1,509.03	845.89	1,790.12	779.55	12,340.78	142
Humboldt.....	94.60	3,295.54	2,961.37	109.10	936.33	132.40	56.80	7,551.59	80
Ida.....	85.00	6,932.92		2,589.01		2,711.37		12,233.30	144
Iowa.....	110.80	23,608.47				6,661.42		30,332.89	274
Jackson.....	116.25	10,300.19	176.92	4,732.76		10,721.80	195.00	26,126.67	235
Jasper.....	137.63	18,101.29	1,281.00			16,093.34		35,475.63	258
Jefferson.....	102.25	10,199.51		6,946.10		8,446.59		25,592.20	250
Johnson.....	108.95	14,130.46		8,632.46		12,219.18		34,972.10	321
Jones.....	112.60	12,804.65		6,506.52	275.75	4,113.01	99.68	27,769.61	167
Keokuk.....	125.00	9,370.58		8,582.15		7,563.92		25,516.65	203
Kossuth.....	195.85		2,868.15	6,856.31	5,811.95	2,651.00	654.63	15,373.49	78
Lee.....	93.50	10,460.55		9,617.00	7,021.62	2,194.75	1,045.52	33,297.50	355
Linn.....	112.00	31,583.17	1,708.25	1,557.03	6,613.88	5,754.72		47,217.05	422
Louisia.....	71.00	7,228.01		5,551.56		2,053.44		14,833.01	209
Lucas.....	96.00	6,461.76		8,045.77		869.81		15,977.34	166
Lyon.....	127.74	5,545.39	797.85	2,428.95	320.21	1,631.72	412.48	11,136.51	87
Madison.....	120.25	9,304.16		6,159.90		6,061.95		21,526.01	179
Mahaska.....	73.50	7,491.07		5,132.29		11,494.35		24,087.62	328
Marion.....	103.63	8,313.89		8,270.42		7,769.14		24,350.45	141
Marshall.....	160.77	8,194.35	5,423.40	354.14	4,765.80	3,496.97	446.48	22,681.14	215
Mills.....	75.50	11,067.04		4,989.83		2,574.36		18,633.23	247
Mitchell.....	90.45	5,114.71	1,801.32	6,412.62	4,137.46	6,874.15	4,170.92	28,511.18	315
Monona.....	93.50	8,132.05		3,170.81		4,162.94		15,465.80	165
Monroe.....	122.50	9,334.90		547.92		835.12		10,715.94	87
Montgomery.....	77.50	10,581.14		2,260.14		1,426.74		14,298.02	184
Muscatine.....	73.55	9,796.23	540.41	2,241.05		15,639.79	755.56	28,972.84	304
Muscatine.....	123.00	7,028.57	1,132.82	4,589.80	1,864.41	4,589.80	221.17	16,433.80	134
O'Brien.....	103.50	3,592.50	25.00	4,125.38		4,377.18		12,139.66	117
Osceola.....	128.71	7,661.67		5,344.55		2,947.02		15,953.24	124
Page.....	114.29	2,876.98	5,737.88			490.26	785.65	9,890.77	86
Palo Alto.....	127.50	17,055.46	112.61	1,325.59		2,457.87		20,961.53	164
Plymouth.....	120.65	925.79	11,652.45	1,541.10	7,863.23	283.03	4,369.34	26,664.94	221
Pocahontas.....	153.55	12,811.81	16,664.31	3,370.09	16,849.92	6,274.32	2,507.00	58,490.45	381
Polk.....	177.69	24,754.74		14,455.26		3,633.79		42,843.79	241
Pottawattamie.....	107.50	21,990.77				15,687.46		37,078.23	345
Poweshiek.....	144.10	8,809.66		6,286.70		2,480.92		17,568.28	122
Ringgold.....	58.72	732.24	10,906.21		8,872.67	36.50	1,135.30	21,682.92	369
Sac.....	91.23	3,511.23	1,066.01	5,908.00	2,587.17	4,038.72	4,038.72	21,069.85	231
Scott.....									

SUMMARY TABLE NO. 12—(Continued)

County	Miles County Road System		Patrol		Gang		Equipment and Tools		Total Cost Maintenance	Average Cost Per Mile
	Earth	Gravel	Earth	Gravel	Earth	Gravel	Earth	Gravel		
Shelby	118.15		12,470.85		3,688.37		6,601.86		22,700.58	193
Sioux	175.25		4,763.73	1,187.06	17,438.28	376.29	14,703.01	688.35	29,176.72	235
Story	140.50		4,369.50	11,128.35	12,352.57		2,619.87	1,237.07	31,667.16	225
Tama	140.50		20,647.53		5,848.03		15,141.44		41,732.00	297
Taylor	143.50		11,150.62		8,210.60		847.50		15,218.08	106
Union	104.00		7,130.39		4,100.47		1,488.73		12,729.59	122
Van Buren	98.75		5,604.34		7,477.09		2,406.28		15,487.71	157
Warren	110.33		10,472.74		8,295.19		9,292.54		23,061.02	208
Washington	102.25		14,575.19		8,310.62		4,278.03		27,164.74	266
Wayne	108.50		12,224.59		8,293.71		6,359.73		23,001.02	204
Webster	102.25		13,222.25	1,001.08	7,758.08		6,050.55		23,226.54	201
Winnebago	98.75		6,128.37	806.23	1,477.57		5,724.88	1,715.91	24,850.11	243
Winneshiek	119.73		5,847.66		2,013.33		1,219.06	209.98	10,586.88	107
Woodbury	99.25		12,341.94	21.00	5,716.58		4,348.39		15,912.16	133
Worth	79.24		888.85	301.31	2,375.52		10,682.57		25,429.84	295
Wright	127.65		6,758.97	6,770.39	352.37		5,825.17	778.94	9,333.12	119
Total	11,633.40	\$911,469.06	\$214,389.97	\$135,424.63	\$130,248.38	\$473,514.84	\$65,940.81	\$2,220,987.74		

a Includes \$40.00 paving maintenance.
b Includes \$174.75 paving maintenance.

SUMMARY TABLE NO. 13

Showing Miscellaneous Items County Expenditures—Special Cases—Annual Report of County Engineers

County	R. R. Crossings Improved		Gravel Pit Purchased		Right of Way	Channel Changes	Miscellaneous	Total Special Cases
	No.	Cost	No.	Cost				
Adair					\$ 4,491.19	\$ 760.00		\$ 5,251.19
Adams					488.00		120.60	608.60
Allamakee					10,718.45		532.30	11,250.75
Appanoose	1	\$ 280.95			3,565.94			3,796.89
Audubon					8,087.47	5,321.45		13,408.92
Benton							376.74	376.74
Black Hawk			4	\$ 2,335.45	885.60			3,221.05
Boone	1		1	3,834.00	1,205.00		458.88	5,497.88
Bremer			1	500.00	177.00	10.00		578.83
Buchanan			4	305.00	4,302.11	239.17		5,468.87
Buena Vista			3	1,115.44	10.00			1,125.44
Butler			2	500.00		55.70		555.70
Calhoun					275.00		1,224.44	4,600.12
Carroll			5	3,190.68	3,459.64		440.73	3,900.37
Cass					2,559.00			2,559.00
Cedar					671.25	972.35	3,664.55	5,308.15
Cerro Gordo			1	400.00	2,749.00		849.91	3,998.91
Cherokee			1	962.50	3,564.10		1,302.31	5,828.91
Chickasaw			4	693.75	108.65			802.40
Clarke					4,020.45			4,020.45
Clay			1	1,194.00				2,120.34
Clayton					2,417.20			2,417.20
Clinton					5,258.40	353.30	42.00	5,653.70
Crawford					383.90		114.42	498.32
Dallas	1	5,771.79	1	1,831.45	5,858.52			13,461.76
Davis					907.00	92.35		969.95
Decatur					1,081.10	3,375.10	925.70	5,381.96
Delaware					39.00			39.00
Des Moines					197.75	100.00	280.35	587.10
Dickinson			1	605.00	126.10		392.00	1,123.10
Dubuque					9,338.29	148.50	616.00	10,096.79
Emmet					80.00		876.81	956.81
Fayette			2	150.00	2,849.70		5,693.60	8,693.30
Floyd							1,266.98	1,266.98
Franklin			2	1,350.00	3,136.97		4,969.99	9,486.96
Fremont					900.00	150.00		1,050.00
Greene					100.00		122.08	222.08
Grundy					2,672.57	415.71	189.70	3,277.98
Guthrie					11,573.07			11,573.07
Hamilton					6.50		2,944.00	2,950.50
Hancock	1	59.00	2	1,670.58				1,729.58
Hardin					245.00	32.50	3,886.54	4,164.04
Harrison					2,351.00			2,351.00
Henry					1,549.25		254.90	1,804.15
Howard					280.00		136.24	416.24
Humboldt	1	40.94					324.97	365.91
Ida					1,907.81	1,262.90		3,170.71
Iowa							272.17	272.17
Jackson							192.56	192.56
Jasper					10,012.87			10,012.87
Jefferson	1	3,261.70			6,626.64	347.30		10,235.64
Johnson					3,766.92	288.51	364.08	4,419.51
Jones			1	100.00	15,456.65			15,556.65
Keokuk					619.00		680.53	1,308.53
Kossuth			4	3,560.50	20.00		617.42	4,197.92
Lee					989.00			989.00
Linn			5	2,343.75	570.00	4,641.78	14,855.49	22,391.02
Louisia					507.55		194.32	701.87
Lucas					69.55		687.21	756.76
Lyon			4	1,814.12	1,559.04	1,076.30		5,136.67
Madison					1,197.00			1,197.00
Mahaska					6,700.50	64.00		6,824.50
Marion	1	516.15			3,197.80		36.00	3,779.95
Marshall			1	6,169.64	1,373.05			7,542.69
Mills					830.27	339.22	2,713.73	3,883.22
Mitchell					1,591.50		889.68	2,481.18
Monona					1,812.24	352.00		2,164.24

SUMMARY TABLE NO. 13—(Continued)

County	R. R. Cross-ings Improved		Gravel Pit Purchased		Right of Way	Channel Changes	Miscellaneous	Total Special Cases
	No.	Cost	No.	Cost				
Monroe					375.00		246.95	621.95
Montgomery	1	756.31			57.50	815.80	1,033.61	2,665.22
Muscatine	1	44.65			1,021.00		1,312.12	2,377.77
O'Brien					425.00	1,800.81	2,776.95	5,003.26
Osceola					1,119.82		115.00	1,988.42
Page					798.00		214.34	1,313.54
Palo Alto	1	306.00			1,622.00		1,622.00	3,550.00
Plymouth					5,331.48			5,331.48
Pocahontas	3	1,691.50			284.50		1,966.52	3,942.52
Polk					5,162.29		6,225.24	11,387.53
Pottawattamie					569.50	17,500.66	18,070.16	36,640.32
Poweshiek					1,277.90	138.90	130.97	1,447.77
Ringgold					548.26			548.26
Sac	1	1,750.00			900.00		102.10	2,412.10
Scott					3,240.25			3,240.25
Shelby					1,972.30		569.33	2,541.63
Sioux	2	611.56	2	2,281.00	6,305.62		1,218.79	10,497.38
Story					190.00		30.00	220.00
Tama					990.00	25.00	1,451.48	2,476.48
Taylor					2,294.00	968.82	136.32	3,429.14
Union					694.20			694.20
Van Buren					812.50		5,170.95	5,983.45
Wapello					374.37			374.37
Warren					4,359.76		272.33	4,632.09
Washington					8,206.80		1,806.11	10,072.91
Wayne					150.00		825.82	975.82
Webster	3	1,450.78						1,450.78
Winnebago	4	1,435.00						1,435.00
Winnesiek					10,467.22		37.29	10,504.51
Woodbury	1	5,800.00			16,156.00	80.00	43,546.76	65,522.76
Worth					323.60		1,308.22	2,691.22
Wright					362.56		95.57	458.13
Total	8	\$19,561.49	60	\$62,095.70	\$23,177.80	\$24,363.18	\$130,411.43	\$462,570.50

SUMMARY TABLE NO. 14

Progress and Condition Report—County Road System—Annual Report of County Engineers

County	Construction Completed 1924			Condition of County Road System January 1, 1924				Total Miles in County System
	Built to Permanent Grade	Gravel, Macadam or Sand Clay	Paved	Not Built	Permanent Grade Not Surfaced	Gravel, Macadam or Sand Clay	Paved	
Adair				\$ 108.40	\$ 1.00			\$ 109.40
Adams				105.25				105.25
Albany		\$ 1.00		96.50	10.00	\$ 1.00		107.50
Appanoose	\$.25			112.75	1.00			113.75
Audubon				92.40	3.50			95.90
Benton				132.25				132.25
Black Hawk		4.30		103.50	5.00	18.00		136.50
Bonne	1.00	35.35		39.00		74.25		113.25
Brewer	1.31	3.00		42.00	9.60	8.00		60.50
Buchanan				127.00	8.00			135.00
Buena Vista		8.00		127.00	5.00	190.05		186.05
Calhoun	.75	19.25		12.65	13.70	76.30		102.65
Carroll				102.00	17.50		.50	119.50
Cass				96.00				96.00
Cedar				81.00	1.90	1.70		84.60
Cerro Gordo	8.00	4.30		32.25	34.25	24.00	.74	111.34
Cherokee	7.50			70.50	4.00			111.50
Chickasaw	11.50	14.50		66.00	3.50	47.50		117.50
Clarke				79.85				79.85
Clay	6.50	16.00		7.00		110.50		117.50
Clayton		.20		130.10		.20		130.30
Clinton	5.47	1.50		98.08	31.78	8.14		128.00
Crawford				10.02	65.58			75.60
Dallas	4.30	9.80		44.60	2.14	49.98	.75	96.67
Davis				122.50				122.50
Decatur				126.23				126.23
Delaware		3.50		109.50		39.50		139.00
Des Moines				43.00	5.75			47.75
Dickinson				38.00		32.00		70.00
Dubuoque	1.28			86.67	1.58	3.70		91.65
Emmet	.10	13.00		15		63.10		63.25
Fayette				117.24	2.86			120.10
Floyd	12.00	3.00		57.63	9.00	29.25		96.78
Franklin		5.00		80.00	10.75	59.50		159.25
Fremont				129.00				129.00
Greene	.75	2.00		21.75	8.75	28.75		62.25
Grundy	2.25	5.00		80.50	20.00	11.50		129.50
Guthrie				120.20	3.25	3.00		126.45
Hamilton	1.25	12.25		50.85	8.20	63.75		124.10
Hancock				89.50	11.60	11.60		112.70
Hardin	6.57	8.66		51.84	35.29	56.32		124.45
Harrison				94.50				94.50
Henry				95.00				95.00
Howard				75.68	4.75	6.75		87.18
Humboldt	3.75	13.50		30.55	21.95	42.10		94.60
Ia	7.79			77.30	7.20			185.90
Iowa				165.65	3.25			168.90
Jackson				114.25		2.00		116.25
Jasper				120.40	13.50	3.75		137.65
Jefferson				102.25				102.25
Johnson	1.37			103.84	4.41			108.66
Jones		.35		129.35		3.25		142.00
Kossuth	12.00			121.28	4.87			125.00
Lee	12.00	21.00		67.05	66.65	62.75		195.45
Lex				82.00		10.50		92.50
Linn	21.86	17.00		73.14	4.86	34.00		112.00
Louis				61.49	7.81	1.50		71.80
Luzerne				96.00				96.00
Lyon	22.00	5.50		88.00	26.15	13.50		127.74
Mallison				119.50	.75			120.25
Marion				68.75	4.75			73.50
Marion				99.48	4.09	.06		103.63
Marshall				119.52	2.42	38.83		160.77

SUMMARY TABLE NO. 14—(Continued)

County	Construction Completed			Condition of County Road System January 1, 1924				
	Build- ing or Grade	Gravel, Macadam or Sand Clay	Paved	Not Built	Perma- nent Grade Not Surfaced	Gravel, Macadam or Sand Clay	Paved	Total Miles in County System
Mills	5.10			75.50	5.10	10.25		75.50
Mitchell				75.10	1.70			90.80
Monroe				91.80	3.00			94.80
Montrose				119.50				120.50
Monmouth				70.05	.85			70.90
Montgomery				20.25	25.76	8.64		54.65
Moscow	1.23	9.00		99.87	5.13	18.00		134.23
O'Brien		.70		74.30	27.30	1.90		104.20
Osceola				128.71				128.71
Page	5.30				42.04	72.25		119.59
Palo Alto	2.33	.38		107.92	19.00	.58		127.81
Plymouth	3.00	10.00		18.60	8.85	93.30		125.05
Pocahontas	17.50			57.65	19.30	76.70		151.85
Polk				177.47				177.47
Polk				105.91				105.91
Pottawattami	.34			44.10	1.50	.02		45.86
Poweshiek				44.10				44.10
Humboldt		1.02		4.70		54.22		58.92
Sac	6.47	7.47		49.00	19.30	22.87		95.64
Scott				117.32	12.88	9.25		139.45
Shoely	2.00	1.75		49.25	13.75	77.50		142.50
Story		.25		131.73	8.75			140.48
Tama				142.62	.88			143.50
Taylor				101.00				101.00
Union				98.75				98.75
Van Buren				109.25				109.25
Wapello				102.25	1.00			103.25
Warren				108.00	.50			108.50
Washington				106.50	5.50	18.50		130.50
Wayne	2.00	1.00		78.25	29.75	3.00		113.00
Weber	6.72	7.22		64.78	11.22			83.72
Winnebago	3.90	3.90		115.23	45.00	12.00		176.13
Winneshiek	20.67	5.42		47.26	65.00	31.25		124.13
Woodbury				67.24				67.24
Worth				11.10				11.10
Wright	3.00	6.75			65.00	51.25		120.00
Total	\$230.02	\$ 279.87		\$8,412.68	\$ 902.10	\$ 1,716.61	\$ 2.01	\$11,028.40

SUMMARY TABLE NO. 15

Showing Secondary Road District Petitioned for, Established, Mileage Graveled and Average Cost, January 1, 1924—Annual Report of County Engineers

County	Sec. Road Dist. Pet. for	Total Mileage to be Improved		No. Sec. Road Dist. Est.	Total Mileage to be Graveled		Mileage Graveling Contracted		Mileage Graveling Completed		Ave. Width Ass't Dist. Miles	Ave. Cost Per Mile Work Completed	Average Assessment Per Acre					
		County	Twp.		Co.	Twp.	Co.	Twp.	Co.	Twp.			1st 40	2nd 40	3rd 40	4th 40	5th 40	6th 40
Boone	13	2.00	41.17	6	13.00	13.75	24.50	23.70	24.50	21.00	1.25	\$ 2,329.00	\$1.00	\$.50	\$.30	\$.15	\$.05	
Buena Vista	30		75.00	3		67.25		13.00		13.00	1.00	1,050.00	.50	.40				
Calhoun	14	6.00	50.00				13.50	6.00	13.50	6.00	2.00	1,612.10	.63	.35	.18	.10		
Carroll				1		2.00		2.00		2.00	3.00	1,350.00	.70	.40				
Cerro Gordo	2	20.50		2	20.50		20.50				1.00	2,000.00	.68	.52	.23	.10	.03	.02
Clay	9		25.50	18		47.50				7.00	1.00	501.00	.73	.39				
Dallas	16	4.00	38.00	11	5.44	26.60	5.44	15.95	8.44	18.35	1.00	1,000.00	.50	.40				
Delaware				1	4.50		4.50		4.50		1.00	1,200.00	.83	.21				
Dickinson	4		13.00	3		8.00		4.00	4.00	4.00	1.00	1,118.36	.49	.36	.26	.14		
Emmet	1		8.50	1		8.50		7.00	2.00	7.00	3.00	1,518.00	.49	.41	.34	.26	.21	.14
Floyd	7	17.25	18.50	4	9.00	7.50					1.00	885.00	.50	.23	.15	.07		
Franklin	4	3.50	15.50								1.00	1,000.00	.50	.35				
Greene	4	7.75	9.00	1		6.00					1.50	1,614.86	.60	.50	.40	.30	.20	.10
Grundy	1	5.00	1.00								3.00	2,283.74	.60	.50	.40	.30	.20	.10
Humboldt	6		34.00								1.00	2,000.00	1.00	1.25				
Kossuth	14	10.00	72.00	3	21.00		21.00		21.00		1.00	1,380.00	.83	.50				
Lyon	5	23.50		3	10.50		10.25		5.50		1.00	6,333.90	1.17	1.00	.80	.52	.25	.20
Marshall	5	79.40	6.50		46.00		19.25		19.25		3.00	2,846.00	1.50	1.00				
Osceola	1	14.50									1.00	2,376.00	1.20	.78	.48	.30	.18	.13
Palo Alto	4	21.00	33.25							1.25	2,500.00	1.20	.78	.48	.30	.18	.13	
Polk	3		4.75	1		6.00		2.50	1.02	2.50	1.00	1,380.00	.83	.50				
Sac	10		24.00	1		2.50		2.50	1.02	2.50	3.00	6,333.90	1.17	1.00	.80	.52	.25	.20
Scott	1	5.13		1	5.15		5.15		5.15		1.00	2,846.00	1.50	1.00				
Story	7	6.25	14.50	1		.75		.75		.75	1.00	2,846.00	1.50	1.00				
Tama	3	20.25		1	7.50			3.90		3.90	1.50	2,376.00	1.20	.78	.48	.30	.18	.13
Winneshiek							3.90		3.90		2.50	2,500.00	1.20	.78	.48	.30	.18	.13
Woodbury	3	15.75				5.42		5.42		5.42								
Wright	2	7.00		1	6.75		6.75		6.75									
Total	160	268.80	485.07	63	150.24	196.35	140.16	74.70	120.93	83.85	1.64	\$ 2,138.24	\$.92	\$.63	\$.22	\$.14	\$.08	\$.06

SUMMARY TABLE NO. 16

Showing Number and Value of Gravel Pits Owned by Counties
January 1, 1924—Annual Report of County Engineers

County	Number	Value
Adair		
Adams		
Allamakee	2	3,000.00
Appanoose		
Audubon		
Benton	1	150.00
Black Hawk	26	7,000.00
Boone	1	3,834.00
Bremer	12	6,000.00
Buchanan	25	4,500.00
Buena Vista	18	1,500.00
Butler	15	3,000.00
Calhoun	19	16,200.00
Carroll		
Cass		
Cedar	13	3,500.00
Cerro Gordo	2	1,000.00
Cherokee	16	10,000.00
Chickasaw		
Clarke	44	24,669.10
Clay		
Clayton	1	800.00
Clinton		
Crawford	40	5,000.00
Dallas		
Davis		
Decatur	11	3,500.00
Delaware		
Des Moines		
Dickinson		
Dubuque	6	4,800.00
Emmet	6	1,062.70
Fayette	8	2,500.00
Floyd	18	12,000.00
Franklin		
Fremont	5	1,000.00
Greene	1	1,500.00
Grundy		
Guthrie	1	600.00
Hamilton	9	3,000.00
Hancock	7	1,000.00
Hardin		
Harrison		
Henry	8	3,800.00
Howard	4	3,200.00
Humboldt		
Ida		
Iowa		
Jackson		
Jasper		
Jefferson		
Johnson	2	800.00
Jones		
Keokuk	44	21,000.00
Kossuth		
Lee	12	5,000.00
Linn		
Louisa		
Lucas	9	24,000.00
Lyon		
Madison		
Mahaska	1	1,000.00
Marion	5	3,000.00
Marshall		
Mills	6	5,077.50
Mitchell		
Monona		
Monroe	1	750.00
Montgomery	2	2,000.00

SUMMARY TABLE NO. 16—(Continued)

County	Number	Value
Muscatine	2	500.00
O'Brien	6	6,000.00
Osceola		
Page	4	15,000.00
Palo Alto		
Plymouth	23	7,300.00
Pocahontas	3	1,000.00
Polk		
Pottawattamie		
Poweshiek		
Ringgold	3	2,000.00
Sac	1	3,000.00
Scott		
Shelby	3	4,200.00
Sioux	4	600.00
Story		
Tama		
Taylor		
Union		
Van Buren		
Wapello		
Warren		
Washington		
Wayne	2	2,200.00
Webster	12	2,319.25
Winnebago	1	500.00
Winneshiek	1	800.00
Woodbury	7	7,000.00
Worth	1	100.00
Wright		
Total	474	\$ 240,192.50

SUMMARY TABLE NO. 17

Showing Total and Relative Cost of Maintenance of Earth, Gravel and Paved Roads by Counties—County Road System—
Annual Report of County Engineers

County	Earth			Gravel			Paved			Total Cost Maintenance Earth, Gravel and Paved Roads
	Number of Miles	Cost of Maintenance	Average Cost Per Mile	Number of Miles	Cost of Maintenance	Average Cost Per Mile	Number of Miles	Cost of Maintenance	Average Cost Per Mile	
Adair.....	109.40	\$ 58,463.53	\$ 260							\$ 28,463.53
Adams.....	105.25	16,700.81	159							16,700.81
Allamakee.....	106.50	41,206.08	388	1.00						41,206.08
Appanoose.....	114.75	24,551.48	214							24,551.48
Audubon.....	96.90	23,442.62	242							23,442.62
Benton.....	152.25	45,709.88	300							45,709.88
Black Hawk.....	108.50	17,395.15	160	18.00	\$ 1,359.36	\$ 242				21,754.51
Boone.....	39.00	17,104.45	439	74.25	12,310.77	166				29,415.22
Bremer.....	52.50	14,016.55	268	8.00	622.35	78				14,638.90
Buchanan.....	135.00	15,880.81	118							15,880.81
Buena Vista.....	5.00	147.00	29	100.05	32,821.54	328				32,968.54
Butler.....	127.00	22,842.20	180	9.50	729.10	77				23,571.30
Calhoun.....	26.35	4,784.57	182	76.30	11,375.02	149				16,159.59
Carroll.....	119.50	17,812.16	149							17,812.16
Cass.....	86.00	16,703.90	194				.50			16,703.90
Cedar.....	82.90	20,013.33	241	1.70						20,013.33
Cerro Gordo.....	86.80	9,041.26	104	24.00	11,895.94	496	.74	\$ 43.98	\$ 59	20,981.15
Cherokee.....	111.50	13,034.68	117		1,019.90					14,054.58
Chickasaw.....	69.50	3,396.22	476	47.50	1,297.85	27				4,694.07
Clarke.....	79.85	23,198.18	291							23,198.18
Clay.....	7.00	880.31	126	110.50	10,406.56	176				20,286.87
Clayton.....	130.30	36,294.50	278							36,294.50
Clinton.....	119.86	15,114.40	126	8.14	1,377.90	160				16,492.30
Crawford.....	75.60	25,689.59	340							25,689.59
Dallas.....	46.74	11,979.61	256	49.08	10,239.44	209	.25			22,219.05
Davis.....	132.50	22,875.79	173							22,875.79
Decatur.....	126.23	26,703.53	212							26,703.53
Delaware.....	109.50	11,827.22	108	29.50	3,429.88	116				15,257.10
Des Moines.....	47.75	15,397.32	327	32.00	10,491.74	328				25,889.06
Dickinson.....	38.00	5,449.51	142	3.70	5,068.50	1,870				15,941.25
Dubuque.....	87.95	14,100.10	160	63.10	9,111.24	144				19,168.60
Emmet.....	.15	494.53	3,297							9,605.77
Fayette.....	121.10	49,380.85	498		5,484.00					54,864.85

IOWA STATE HIGHWAY COMMISSION

Floyd.....	67.23	7,628.75	113	29.55	1,567.90	53				9,196.65
Franklin.....	99.75	12,539.89	126	59.50	13,645.94	229				26,205.83
Fremont.....	120.00	20,049.63	167							20,049.63
Greene.....	40.50	6,648.03	164	28.75	5,050.73	179				11,698.76
Grundy.....	109.50	13,378.59	122	11.00	514.76	47				13,893.35
Guthrie.....	123.45	16,769.06	136	3.00	1,008.85	336				17,777.91
Hamilton.....	59.35	11,024.97	186	93.75	21,138.61	225				32,163.58
Hancock.....	101.00	14,912.98	148	11.00	1,228.41	106				16,141.39
Hardin.....	77.13	18,329.16	238	51.32	9,837.68	178				28,186.84
Harrison.....	94.50	10,255.78	109							10,255.78
Henry.....	96.00	23,680.15	247							23,680.15
Howard.....	80.43	10,055.70	125	6.75	2,285.08	338				12,340.78
Humboldt.....	52.50	3,597.04	69	42.10	3,954.55	91				7,551.59
Ida.....	85.00	12,233.30	144							12,233.30
Iowa.....	110.80	39,332.89	274							39,332.89
Jackson.....	114.25	25,754.75	225	2.00	371.92	186				26,126.67
Jasper.....	133.90	31,194.63	255	3.75	1,281.00	342				32,475.63
Jefferson.....	102.25	25,592.20	250							25,592.20
Johnson.....	108.25	31,972.10	323	.70						31,972.10
Jones.....	139.35	23,424.18	168	3.25	345.43	166				23,769.61
Keokuk.....	125.00	25,516.65	203							25,516.65
Kossuth.....	133.10	8,906.91	67	62.75	6,466.53	103				15,373.49
Lee.....	83.00	22,272.30	268	10.50	10,935.29	1,041				33,207.59
Linn.....	78.00	38,894.92	499	34.00	8,822.13	245				47,217.05
Louisia.....	69.50	14,833.01	213	1.50						14,833.01
Lucas.....	96.00	15,977.34	166							15,977.34
Lyon.....	114.24	9,605.97	84	13.50	1,530.54	113				11,136.51
Madison.....	120.25	21,526.01	179							21,526.01
Mahaska.....	73.50	24,087.62	328							24,087.62
Marion.....	103.57	24,350.45	235	.06						24,350.45
Marshall.....	121.94	12,045.46	99	38.83	10,635.68	274				22,681.14
Mills.....	75.50	18,633.23	247							18,633.23
Mitchell.....	89.20	18,401.48	229	10.25	10,109.70	986				28,511.18
Monona.....	93.50	15,465.80	165							15,465.80
Monroe.....	122.50	10,715.94	87							10,715.94
Montgomery.....	77.50	14,268.02	184							14,268.02
Muscatine.....	65.01	27,677.07	436	8.54	1,295.77	152				28,972.84
O'Brien.....	105.00	13,215.40	126	18.90	3,218.40	179				16,433.80
Osceola.....	101.60	12,095.06	119	1.90	25.00	13				12,120.06
Page.....	128.71	15,953.24	124							15,953.24
Palo Alto.....	42.04	3,337.24	79	72.25	6,523.53	90				9,860.77
Plymouth.....	126.92	20,888.92	164	.58	112.61	194				20,991.53
Pocahontas.....	27.45	2,749.92	108	93.20	23,915.02	257				26,664.94
Polk.....	76.35	22,459.22	294	76.70	35,846.48	467	.50	174.75	350	58,480.45
Pottawattamie.....	177.67	42,843.79	241				.02			42,843.79
Poweshiek.....	107.50	37,078.23	345							37,078.23
Ringgold.....	144.10	17,568.28	122							17,568.28
Sac.....	4.50	768.74	171	54.22	20,914.18	386				21,682.92

REPORT OF COUNTY ENGINEERS

SUMMARY TABLE NO. 17—(Continued)

County	Earth			Gravel			Paved			Total Cost Maintenance Earth, Gravel and Paved Roads
	Number of Miles	Cost of Maintenance	Average Cost Per Mile	Number of Miles	Cost of Maintenance	Average Cost Per Mile	Number of Miles	Cost of Maintenance	Average Cost Per Mile	
Scott.....	68.36	13,457.95	197	22.87	7,631.90	334				21,089.85
Shelby.....	118.15	22,700.58	193							22,700.58
Sioux.....	166.00	36,925.02	222	9.25	2,251.70	243				39,176.72
Story.....	63.00	6,929.17	110	77.50	24,737.09	319				31,667.16
Tama.....	140.50	41,732.00	297							41,732.00
Taylor.....	143.50	15,218.08	106							15,218.08
Union.....	104.00	12,729.59	122							12,729.59
Van Buren.....	98.75	15,487.71	157							15,487.71
Wapello.....	110.35	23,001.02	208							23,001.02
Warren.....	102.25	27,164.74	266							27,164.74
Washington.....	108.50	21,818.03	201							21,818.03
Wayne.....	119.50	23,226.54	194							23,226.54
Webster.....	83.75	20,424.20	244	18.50	4,434.91	240				24,859.11
Winneshiek.....	87.53	9,300.76	107	11.22	1,226.12	109				10,526.88
Winneshiek.....	115.83	15,912.46	137	3.90						15,912.46
Woodbury.....	93.25	25,309.84	272	6.00	21.00	3				25,420.84
Worth.....	67.24	2,487.70	37	12.00	6,995.42	575				9,393.12
Wright.....	76.70	7,181.00	94	51.25	10,067.93	195				17,188.93
Total.....	9,314.78	\$1,820,408.58	\$ 195	1,716.61	\$400,360.43	233	2.01	\$ 218.73	\$ 108	\$ 2,220,987.74

SUMMARY TABLE NO. 18

Amount of Bridge and Road Work Planned by and Constructed Under Supervision of County Engineering During 1923—Annual Report of County Engineers

County	Bridges		Roads		Number Miles County and Township Roads			
	Planned	Constructed	Planned	Constructed	Surveyed	Platted	Grade Line Approved Dis. Engr.	Profiles Approved Commiss'n
Adair.....	\$ 18,768.31	\$ 72,500.00	\$ 3,254.96	\$ 29,000.00	1.50	1.50		
Adams.....	11,827.60	18,323.29	1,730.44	14,551.04	3.00	3.00		
Allamakee.....	19,510.00	35,000.00		41,296.00				
Appanoose.....	10,000.00	33,500.00	401.00	25,000.00				
Audubon.....	22,641.00	49,813.41	10,451.65	23,572.82				
Benton.....	44,985.79	61,468.67		46,169.82				
Black Hawk.....	30,223.00	40,000.00	14,600.00	45,000.00	4.50	7.00	7.00	7.00
Boone.....	78,417.59	90,000.00	75,000.00	105,681.80	39.20	45.20	8.00	8.00
Bremer.....	29,239.00	43,086.87	5,200.00	27,353.89	4.81	1.31	1.31	
Buchanan.....	13,700.00	49,000.00	4,000.00	16,866.61	4.00	4.00	4.00	
Buena Vista.....	10,775.00	10,821.42	8,520.00	35,000.00	7.25	7.25	7.25	7.25
Butler.....	3,252.40	29,728.64		20,000.00	1.50	4.00	3.25	3.25
Calhoun.....	53,217.43	59,490.00		48,000.00	27.00	28.00	8.00	
Carroll.....	15,226.00	23,300.00	8,500.00	21,000.00	2.00	2.00	1.00	
Cass.....	17,500.00	40,000.00		15,262.50				
Cedar.....	35,045.26	67,000.00	10,337.80	29,000.00				
Cerro Gordo.....	26,955.71	62,500.00	34,283.61	40,000.00		16.00	16.00	16.00
Cherokee.....	56,283.00	51,000.00	13,250.00	22,300.00	9.25	9.80	9.80	
Chickasaw.....	18,981.48	41,500.00	85,000.00	29,000.00	27.00	30.00	30.00	30.00
Clarke.....	8,505.00	20,000.00		15,000.00				
Clay.....	20,313.00	36,024.13	6,000.00	50,000.00		5.50	5.50	
Clayton.....	9,617.50	108,000.00		41,000.00				
Clinton.....	21,612.00	87,775.08	41,000.00	63,535.30	5.75	2.75	2.75	
Crawford.....	21,135.00	50,000.00	25,000.00	15,000.00	12.00	9.00		
Dallas.....	21,585.00	56,000.00	90,000.00	50,000.00	36.08	40.00	31.25	2.79
Davis.....	20,501.00	45,154.00		22,800.00				
Decatur.....		29,812.00		26,703.55				
Delaware.....	29,339.00	34,806.64		12,603.67				
Des Moines.....	6,231.00	16,000.00		15,567.32				
Dickinson.....	5,514.00	12,180.96	4,750.00	16,000.00	6.00	6.00	6.00	
Dubuque.....	13,060.00	35,000.00	12,000.00	20,000.00				

SUMMARY TABLE NO. 18—(Continued)

County	Bridges		Roads		Number Miles County and Township Roads			
	Planned	Constructed	Planned	Constructed	Surveyed	Platted	Grade Line Approved Dis. Engr.	Profiles Approved Commiss'n
Emmet	9,710.65	13,627.92	31,241.00	22,350.00	27.00	5.00	5.00	
Fayette	38,127.00	63,840.15	1,836.74	48,062.18	3.44			
Floyd	26,176.24	39,400.00	37,680.00	44,800.00	6.50	15.80	18.80	
Franklin	8,212.88	39,000.00	27,500.00	37,000.00	21.35	10.35	3.35	
Fremont	14,623.67	41,915.32		20,049.00				
Greene	11,977.42	28,862.91	4,600.00	18,000.00	12.00	12.00	12.00	12.00
Grundy	39,225.89	46,561.69	23,118.97	38,262.81	2.25	2.25	2.25	2.25
Guthrie	25,359.07	34,297.78		19,542.99				
Hamilton	12,960.00	39,267.86	3,200.25	42,000.00	1.00	1.00	1.00	1.00
Hancock	8,540.00	24,230.00		18,000.00				
Hardin	56,527.39	54,700.00	50,000.00	52,000.00	2.12	21.32	4.20	10.50
Harrison	4,500.00	50,000.00		10,000.00				
Henry	500.00	14,877.00		15,816.81				
Howard	10,830.00	51,754.05	8,200.00	20,800.00				
Humboldt	1,952.76	21,100.18		19,202.10	62.00			
Ida	10,865.00	37,757.82	35,800.00	39,800.00	9.94	15.44	11.79	11.79
Iowa	18,751.00	29,422.21		30,605.06				
Jackson		44,373.10		15,269.87				
Jasper	32,828.00	98,000.00		36,000.00				
Jefferson	9,504.27	23,382.42	3,500.00	21,007.76	.25	.25	.25	.25
Johnson		73,000.00	7,000.00	48,000.00	.43	.43		
Jones	18,824.50	45,000.00		29,800.00	4.00	4.00		
Keokuk	13,000.00	24,831.82		25,516.65	3.00			
Kossuth	5,280.00	23,000.00	15,000.00	70,000.00		3.00	13.00	
Lee	44,943.00	58,000.00		33,207.61				
Linn	56,864.28	105,170.00		138,000.00				
Louisia	19,575.00	24,700.00		14,000.00	3.00	3.00	3.00	
Lucas	7,855.00	15,692.01		15,107.53				
Lyon	8,216.90	30,108.58	65,000.00	56,786.59	26.00	26.00	24.00	
Madison	16,630.00	38,639.00		21,500.00	1.50			
Mahaska	38,212.00	49,000.00		24,000.00				
Marion	29,848.32	38,205.41		28,150.40				
Marshall	11,388.45	16,823.44	24,278.10	47,502.69	18.00	18.00		
Mills	9,423.34	40,602.51		18,633.23				
Mitchell	6,170.00	23,224.71	16,500.00	30,878.93	7.95	7.20	6.20	6.20
Monona		18,000.00	950.00	15,500.00	.57	.57	.57	
Monroe	5,601.64	17,221.48		10,715.94				

Montgomery	18,621.60	29,000.00		15,000.00	1.50			
Muscatine	7,115.00	25,000.00	4,750.00	29,000.00	3.85	1.42	.74	
O'Brien	34,929.00	44,831.39	4,500.00	23,000.00	4.00	3.00	2.00	
Oseola	19,370.08	21,949.37		16,979.61	16.00			
Page	38,964.07	59,000.00	10,000.00	19,000.00	10.00	10.00		
Palo Alto	9,168.90	42,530.00	20,000.00	19,500.00	10.00	10.00	10.00	
Plymouth	27,495.00	62,500.00	7,000.00	31,000.00	1.83	1.33	1.33	.58
Pocahontas	12,389.50	13,000.00	17,941.56	33,600.00	6.00	6.00		
Polk	49,599.64	82,487.18	85,000.00	149,500.00	22.00	24.50	16.50	14.00
Pottawattamie	61,746.00	72,000.00		42,000.00				
Poweshiek	44,411.00	45,000.00		15,000.00				
Ringgold	1,505.91	25,000.00		17,568.28				
Sac	54,229.75	69,000.00	11,215.00	26,000.00	29.50	10.50	10.50	5.50
Scott	196,792.85	261,000.00	38,729.00	89,600.00	14.56	6.53	6.53	6.53
Shelby	49,492.00	56,981.15		24,186.38	.83	.83		
Sioux	1,571.99	65,313.99		42,000.00	6.00	6.00		
St. Louis	41,694.90	55,000.00		40,000.00				
Story	28,119.00	47,224.88	5,000.00	27,276.65	8.50	5.50		
Tama	28,413.37	39,722.66		15,000.00				
Taylor	2,065.00	11,831.39	6,000.00	13,423.79	20.00			
Union	15,040.00	38,000.00		15,000.00	10.00			
Van Buren	22,641.00	26,500.00	2,700.00	23,000.00				
Wapello	23,265.60	25,694.49		22,885.81				
Warren	13,535.00	34,692.46		22,000.00				
Washington	26,654.35	56,064.66	6,715.16	35,265.98	9.00	9.00		
Wayne	1,816.56	49,784.69	6,000.00	36,000.00	11.50			
Webster	1,817.60	1,745.28	56,456.98	37,839.71	12.10	12.10	12.10	12.10
Winnebago	23,784.00	52,000.00	36,842.52	50,000.00	2.50	.50		
Winneshiek	38,967.75	68,369.09	30,000.00	62,031.97	6.00	6.00	3.00	3.00
Woodbury	12,455.00	28,439.00		9,400.00				
Worth	33,060.40	45,150.13	5,000.00	36,545.92	13.00	4.00	3.00	3.00
Wright								
Total	\$2,246,207.71	\$4,886,148.08	\$1,170,934.74	\$3,211,237.97	621.81	485.13	312.22	162.90

SUMMARY TABLE NO. 19—(Continued)

County	Roads				Bridges					Total Cost of Engineering	
	County Engineer		Assistant Engineer		County Engineer		Assistant Engineer		Total		
	Salary	Expense	Salary	Expense	Salary	Expense	Salary	Expense			
Shelby.....	926.73	421.96	460.68		1,800.37	1,473.27	617.03	725.30		2,815.60	4,624.97
Sioux.....	1,000.00	300.00	1,000.87	374.95	3,305.82	1,700.00	700.00	623.36	68.82	3,092.18	6,458.00
Story.....	1,509.26	631.04	602.30	51.02	2,883.62	900.00	350.16	100.70	49.19	1,400.05	4,283.67
Tama.....	1,500.00	700.00	900.00		3,100.00	700.00	924.55	1,853.00		3,477.55	6,577.55
Taylor.....	708.11	150.35	240.00		1,098.46	1,062.15	150.36	360.00		1,572.51	2,670.97
Union.....	1,100.00	19.07			1,119.07	533.88	35.00			588.88	1,707.95
Van Buren.....	340.00	750.00	150.00	16.65	1,256.65	343.34	845.58	154.82	16.00	1,359.74	2,616.39
Wapello.....	800.00	250.00			1,050.00	823.99	256.50			1,080.49	2,130.49
Warren.....	655.52	55.48	264.24		975.24	1,527.00	100.00	960.35	39.60	2,686.95	3,662.19
Washington.....	287.67	137.09	330.00		754.76	575.34	274.19	960.00		1,809.53	2,564.20
Wayne.....	800.00	274.13	183.70	19.10	1,276.93	1,600.00	548.25	367.41	38.20	2,553.86	3,830.79
Webster.....	2,167.84	478.89	2,490.94	500.65	5,638.32	550.00	120.00	625.00	125.00	1,420.00	7,058.32
Winnebago.....	1,718.02	500.00	1,037.00	211.65	3,565.67	84.50	33.00	102.95	18.00	238.45	3,804.12
Winneshiek.....	600.00	240.00	960.46		1,800.46	1,800.00	956.87	682.13	148.30	3,587.30	5,387.76
Woodbury.....	2,100.00	797.99	2,159.76	241.99	5,299.74	1,400.00	531.99	925.62	103.71	2,961.32	8,261.06
Worth.....	625.00	180.50	549.00	172.10	1,526.60	600.00	195.95	12.00	2.00	809.95	2,336.45
Wright.....	1,162.63	109.73	590.53		1,862.89	670.08	169.73	610.12		1,389.93	3,252.82
Total.....	\$121,365.58	\$ 34,353.85	\$103,784.26	\$ 13,163.84	\$272,667.53	\$112,276.32	\$ 33,090.86	\$ 63,305.05	\$ 7,072.53	\$215,744.76	\$ 488,412.29

SUMMARY TABLE NO. 20

Financial Statement—Annual Report of County Engineers

County	County Bridge Fund				County Motor Vehicle Fund					
	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements, 1923	Balance or Overdraft Jan. 1, 1924	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements, 1923	Balance or Overdraft Jan. 1, 1924
Adair.....	\$ 18,250.72	\$ 63,430.21	\$ 81,680.93	\$ 80,971.20	\$ 718.73	\$ 119.37		\$ 119.37		\$ 119.37
Adams.....	*95.13	56,744.91	56,840.04	54,191.31	2,458.47					
Allamakee.....	*30,294.58	78,158.97	108,453.55	51,128.64	*3,264.25					
Appanoose.....	11,984.03	55,758.60	67,742.63	57,466.39	10,276.24					
Audubon.....	1,070.76	77,356.13	78,426.89	66,587.78	11,839.11					
Benton.....	2,883.82	84,658.05	87,541.87	81,923.26	5,618.61	11,004.75	\$ 28,913.27	39,918.02	\$ 30,830.74	9,087.28
Black Hawk.....	6,371.53	43,606.96	49,978.49	48,123.77	1,854.72					
Boone.....	21,350.22	82,796.80	104,147.02	100,038.47	4,108.55					
Bremer.....	16,064.24	58,943.82	75,008.06	61,883.19	13,624.87					
Buchanan.....	1,728.93	47,652.88	49,381.81	46,852.20	2,529.61					
Buena Vista.....	17,094.08	11,745.42	28,839.50	15,389.88	14,009.62	1,446.34	35,241.53	36,687.87	40,110.12	*3,422.25
Butler.....	10,199.56	91,400.66	101,600.22	74,623.83	27,036.39	1,326.55		1,326.55		
Calhoun.....	33,015.71	55,075.50	88,091.21	70,440.27	17,650.94	5,323.00	45,218.62	50,541.62	43,020.91	7,520.71
Carroll.....	*1,884.58	71,415.30	73,300.00	44,094.32	29,205.68					
Cass.....	10,198.36	75,714.56	85,912.92	65,544.24	20,368.68					
Cedar.....	23,627.92	67,981.78	91,609.70	64,116.11	27,493.59					
Cerro Gordo.....	16,543.06	56,200.36	72,743.42	73,295.23	*501.81					
Cherokee.....	11,585.16	74,221.35	85,806.51	60,665.94	25,710.57	7,373.79		7,373.79		7,373.79
Chickasaw.....	9,922.61	38,711.35	48,633.96	45,739.25	2,894.71					
Clarke.....	3,980.21	28,925.42	32,905.63	25,070.37	7,835.26					
Clay.....	24,506.07	25,726.69	50,232.76	45,197.50	5,125.17					
Clayton.....	52,054.58	81,670.20	133,724.78	113,901.03	19,823.75					
Clinton.....	11,725.91	61,991.39	73,717.30	66,788.25	6,929.05					
Crawford.....	83,963.23	104,852.64	188,755.87	84,765.60	103,990.27					
Dallas.....	8,503.52	92,923.11	101,426.63	98,223.11	3,203.52	3,645.23	25,343.19	28,988.42	32,091.58	*3,103.16
Davis.....	*5,809.08	55,118.65	60,927.73	44,776.91	4,442.66					
Decatur.....	635.21	57,119.73	57,754.94	53,108.59	4,646.35	1,544.76		1,544.76	194.96	1,349.80
Delaware.....	8,439.77	45,256.89	53,696.66	52,527.28	1,169.38	767.99	19,441.61	20,209.60	18,369.41	1,840.19
Des Moines.....	*1,087.23	28,829.26	29,916.49	25,689.82	4,226.67					
Dickinson.....	23,500.94	10,100.73	33,601.67	13,810.00	20,791.67					
Dubuque.....	*54,424.24	67,756.38	122,180.62	122,180.62	*28,844.44					
Emmet.....	22,534.76	13,317.36	35,852.12	15,072.33	20,779.79	258.00	28,076.06	28,334.14	21,457.35	6,876.79
Fayette.....	*6,279.47	80,008.48	86,287.95	82,819.01	4,468.94					
Floyd.....	2,695.57	129,730.30	132,425.87	129,089.89	3,335.98					
Franklin.....	18,538.79	39,141.25	57,680.04	35,272.93	22,407.11	196.22	29,326.34	29,522.56	31,166.20	*1,639.64

SUMMARY TABLE NO. 20—(Continued)

County	County Bridge Fund				County Motor Vehicle Fund					
	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements, 1923	Balance or Overdraft Jan. 1, 1924	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements, 1923	Balance or Overdraft Jan. 1, 1924
Fremont	33,627.23	46,179.32	79,806.55	77,478.82	2,327.73					
Greene	30,568.90	26,224.41	56,793.31	46,452.58	10,340.73					
Grundy	27,250.13	21,491.82	48,741.95	57,140.67	*8,389.72	4,850.34		4,850.34	4,850.34	
Guthrie	16,667.41	48,296.47	64,963.88	46,050.27	18,913.61	3,920.08	47,156.88	51,076.96	43,118.61	7,958.35
Hamilton	9,293.93	44,294.82	53,588.75	44,189.74	9,399.01					
Hancock	9,020.08	24,465.56	33,485.64	30,638.35	2,847.29					
Hardin	1,006.38	94,780.75	95,787.13	87,952.81	7,834.32	2,785.43		2,785.43		2,785.43
Harrison	55,660.28	55,000.00	110,660.28	60,000.00	50,660.28					
Henry	9,519.46	29,887.25	39,406.71	23,792.19	15,614.52					
Howard	14,038.18	51,274.99	65,313.17	57,436.44	7,876.73					
Humboldt	99,261.36	27,161.40	126,422.76	28,728.22	97,694.54					
Ida	10,232.19	43,008.81	53,241.00	50,770.03	2,470.97					
Iowa	*18,829.82	67,427.76	86,257.58	48,507.94	38,017.30					
Jackson	63,761.38	68,204.88	131,966.26	47,980.82	83,985.44					
Jasper	*4,186.96	101,584.13	105,771.09	97,397.17	8,373.92					
Jefferson	30,987.98	46,830.41	77,818.39	43,894.72	33,923.67	*89.79		*89.79		*89.79
Johnson	6,418.80	73,538.64	79,957.44	79,987.44	84,887.68	*4,900.24				
Jones	15,710.47	65,598.17	81,308.64	79,818.96	4,489.68					
Keokuk	17,410.23	63,579.48	80,989.71	42,561.50	38,428.21					
Kossuth	24,341.94	29,390.91	53,732.85	23,005.30	30,727.55					
Lee	5,388.39	57,003.34	62,391.73	73,019.09	*9,627.36					
Linn	4,772.82	105,830.21	110,603.03	101,491.63	9,111.40					
Louisa	31,354.71	32,409.79	63,764.50	23,530.09	40,234.41					
Lucas	2,201.41	48,022.55	50,223.96	48,300.68	1,923.28					
Lyon	1,777.87	57,077.25	58,855.12	44,978.71	13,876.41					
Madison	6,778.84	61,846.57	68,625.41	58,727.97	9,897.44					
Mahaska	3,014.61	66,473.31	69,487.92	69,287.22	200.70	363.00		363.00	363.00	
Marion	35,360.59	56,239.92	91,600.51	55,801.88	35,798.63	8,237.00	31,086.93	39,324.02	28,870.03	10,453.99
Marshall	20,312.95	37,813.68	58,126.63	27,306.29	30,820.34					
Mills	478.37	163,604.51	164,082.88	163,197.61	885.27	4,539.00	18,974.31	23,513.40	20,218.39	3,315.01
Mitchell	*20,900.94	70,199.63	91,099.57	49,208.69	36,055.41					
Monona	478.42	50,618.74	51,097.16	31,753.30	19,343.86	2,425.20	17,403.95	19,829.15	17,886.30	1,942.85
Monroe	1,881.25	31,600.15	33,481.40	19,916.41	13,564.99	3,015.90	21,528.43	24,574.33	21,430.62	3,143.71
Montgomery	*1,952.72	53,333.93	55,286.65	49,557.31	1,823.90	4,573.23	26,290.99	30,864.22	26,500.48	4,373.74
Muscataine	12,061.47	27,117.55	39,179.02	34,969.28	4,179.74					
O'Brien	45,905.16	73,206.06	119,111.22	56,080.92	62,430.30					
Osceola	33,963.14	26,121.25	60,114.39	23,749.56	36,364.83	7,418.76		7,418.76	3,344.64	4,074.12
Page	*1,311.52	127,771.40	126,459.88	140,284.16	*13,824.28					
Palo Alto	17,319.90	42,489.41	59,809.31	59,184.45	624.85	3,880.10		3,880.10	3,880.10	
Plymouth	7,388.61	79,897.40	87,286.01	85,523.34	1,762.67					
Pocahontas	19,280.12	50,498.31	69,778.43	27,078.40	42,700.03					
Polk	5,162.82	99,249.64	104,412.46	100,395.49	4,016.97					
Pottawattamie	8,517.43	196,235.55	204,752.98	200,180.33	4,572.65					
Poweshiek	10,138.17	82,452.94	92,591.11	85,991.03	6,600.08					
Ringgold	*7,985.55	47,005.09	54,990.64	39,019.54	15,971.10					
Sac	31,721.26	74,975.65	106,696.91	80,393.15	25,403.76					
Scott	242.46	401,262.64	401,505.10	402,930.57	*1,425.47					
Shelby	16,730.03	109,588.62	126,318.65	110,615.30	15,703.35					
Stout	15,588.02	80,688.62	96,276.64	72,731.79	23,544.85					
Stow	19,847.32	46,829.47	66,676.79	61,704.09	4,972.70	2,289.70	31,297.12	33,586.88	48,901.93	4,684.95
Story	29,404.20	97,462.99	126,867.19	84,898.10	41,969.09					
Tama	5,297.22	62,674.83	67,972.05	62,376.33	5,595.72					
Taylor	3,362.32	50,788.63	54,150.95	21,253.25	32,897.70					
Union	15,770.80	42,296.17	58,066.97	58,036.87	30.10					
Van Buren	8,819.64	39,148.69	47,968.33	32,345.66	15,622.67					
Wapello	16,377.04	66,435.24	82,812.28	44,721.86	38,090.42	6,171.31		6,171.31		6,171.31
Warren	2,396.05	58,711.99	61,018.04	58,768.61	2,249.43					
Washington	23,378.39	45,055.49	68,433.88	62,313.06	16,120.82					
Wayne	*15,622.45	60,554.50	76,176.95	58,175.43	*13,243.38					
Webster	57,173.18	18,548.37	75,721.55	12,747.68	62,973.87					
Winnebago	1,181.20	72,331.43	73,512.63	69,862.96	3,650.67	4,313.48		4,313.48	11.96	4,301.52
Winneshiek	1,295.21	91,495.67	92,790.88	89,418.88	3,372.00	94.69		94.69		94.69
Woodbury	24,914.06	28,711.41	53,625.47	32,016.21	21,609.26					
Wright	6,428.17	75,671.54	82,099.71	68,372.18	13,727.53					
Footings	\$1,501,867.22	\$6,418,573.20	\$7,748,786.20	\$6,261,332.15	\$1,572,092.76	\$101,105.57	\$425,299.22	\$526,404.79	\$438,085.56	\$ 96,324.28
Less overdrafts	*171,654.22				*85,238.71	*89.79		*89.79		*8,294.84
Total	\$1,330,213.00	\$6,418,573.20	\$7,748,786.20	\$6,261,332.15	\$1,487,454.05	\$101,015.78	\$425,299.22	\$526,315.00	\$438,085.56	\$ 88,029.44

*Overdrawn.

SUMMARY TABLE NO. 21

Financial Statement—Annual Report of County Engineers

County	County Road Cash Fund				Township Road Drag and Drainage Funds					
	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements 1923	Balance or Overdraft Jan. 1, 1924	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements 1923	Balance or Overdraft Jan. 1, 1924
Adair	\$ 10,722.52	\$ 31,590.81	\$ 42,313.33	\$ 40,243.38	\$ 2,069.95	\$ 15,538.85	\$ 54,037.36	\$ 69,576.21	\$ 53,124.71	\$ 16,451.50
Adams	7,626.70	37,259.52	44,886.22	32,706.96	12,179.26	3,292.16	32,963.53	36,165.69	30,429.86	5,735.83
Allamakee	*9,413.34	63,775.69	54,362.35	71,580.86	*17,218.51	3,639.13	44,532.29	48,171.42	43,347.60	4,823.82
Appanoose	61.13	43,770.16	43,831.29	44,423.00	*591.71	3,006.10	40,196.82	43,292.92	37,722.54	5,570.38
Audubon	30,822.13	41,294.51	72,116.64	54,588.65	17,527.99	4,743.05	39,951.96	44,694.91	37,255.80	7,439.11
Benton	*2,976.19	46,309.73	43,333.54	45,982.36	*2,648.82	11,681.05	57,338.30	60,019.35	55,644.27	4,375.08
Black Hawk	8,794.35	71,117.37	79,911.72	71,473.25	8,438.47	12,057.59	57,377.61	60,435.20	57,890.29	11,544.91
Boone	12,823.99	104,709.27	117,533.26	111,881.18	5,652.08	20,922.21	98,780.44	119,792.65	102,962.84	16,739.81
Bremer	*5,314.47	65,752.91	60,438.44	58,764.90	6,673.54	2,354.14	24,590.27	26,944.41	24,769.63	2,174.78
Buchanan	7,039.73	53,273.00	63,313.33	57,873.01	5,446.32	6,667.74	45,364.21	52,031.95	45,623.65	6,408.30
Buena Vista	*11,655.12	47,895.73	36,120.61	42,772.13	*6,651.52	12,675.43	64,543.86	77,219.29	55,588.07	21,631.22
Butler	*3,074.31	46,648.19	43,573.88	29,234.38	14,339.50	7,670.77	52,091.00	59,761.77	52,121.71	7,640.06
Calhoun	7,503.60	92,692.19	100,195.79	94,641.77	5,554.02	58,834.44	76,483.78	135,318.22	67,261.48	68,056.74
Carroll	*35,438.42	56,657.95	21,219.53	20,262.38	957.15	5,586.19	57,587.97	66,154.16	55,618.88	10,535.28
Cass	*3,771.48	32,130.55	28,359.07	20,698.65	7,660.42	5,808.92	21,321.68	27,130.60	22,352.06	4,778.55
Cedar	15,527.29	46,590.02	62,117.31	55,058.71	7,058.60	3,134.77	65,860.92	68,995.69	56,241.98	12,753.71
Cerro Gordo	2,287.21	107,223.25	109,510.46	109,146.16	364.30	16,700.09	74,340.39	91,049.48	70,333.64	20,715.84
Cherokee	6,654.59	49,285.02	55,939.61	51,133.02	4,806.59	2,455.61	40,872.31	43,327.92	35,549.69	7,778.23
Chickasaw	*10,052.45	52,109.27	42,056.82	43,813.79	*1,756.97	5,998.21	49,490.70	55,488.91	46,511.98	8,976.93
Clarke	*3,912.52	61,154.91	57,242.39	33,935.53	23,306.86	5,114.30	23,899.82	28,924.12	22,729.56	6,194.56
Clay	20,043.38	143,572.12	163,615.50	173,825.45	*10,189.95	32,363.21	47,318.87	79,682.08	43,817.28	35,864.80
Clayton	7,832.30	82,687.48	90,519.78	90,473.76	46.02	3,914.65	35,007.10	38,921.75	31,131.31	7,790.44
Clinton	16,837.21	57,353.91	74,191.12	65,625.56	8,565.56	7,182.50	64,735.82	71,918.32	63,767.04	8,151.28
Crawford	*79.32	73,652.27	73,572.95	59,124.11	14,448.84	11,837.54	82,781.49	91,619.03	83,352.56	11,266.47
Dallas	*764.18	195,886.37	195,122.19	176,796.07	18,326.12	25,130.82	122,192.60	147,323.42	125,056.60	22,270.82
Davis	*535.26	30,290.20	29,754.94	26,141.32	3,613.62	3,917.87	37,675.97	41,593.84	34,015.33	7,578.51
Decatur	2,735.03	45,828.35	48,563.38	45,012.45	3,550.93	447.68	32,345.57	32,793.25	26,509.91	6,283.34
Des Moines	9,015.61	48,050.84	57,066.45	51,946.37	5,120.08	4,457.56	50,304.06	54,761.62	49,363.36	5,398.26
Dickinson	2,625.02	28,111.71	30,736.73	25,697.59	5,039.14	8,672.93	32,964.92	41,637.85	31,963.36	9,674.49
Dubuque	2,136.67	24,867.95	27,004.62	32,570.60	*5,565.98	23,548.14	32,593.06	56,141.80	34,846.46	21,295.34
Emmet	*18,668.58	58,341.64	39,673.06	47,416.59	*7,743.53	3,729.27	42,543.47	46,272.74	42,154.88	4,117.86
Fayette	8,999.19	20,867.64	29,866.83	28,393.68	1,473.15	21,307.26	47,131.01	68,438.27	41,682.49	26,755.78
Floyd	*16,224.60	136,541.59	120,316.99	120,061.16	265.83	9,791.00	67,252.55	77,043.55	60,091.64	17,351.91
Franklin	*3,203.32	81,750.02	78,546.70	74,683.99	3,862.71	9,977.42	47,186.69	57,164.11	45,128.26	12,035.85
Fremont	*171.29	36,247.16	36,075.87	44,984.75	*8,908.88	17,462.16	56,976.97	74,439.13	52,505.80	21,933.24

Greene	4,188.04	45,627.69	49,815.73	48,702.11	1,113.62	3,580.11	23,424.01	27,004.12	24,698.82	2,305.30
Grundy	5,566.90	59,853.77	65,420.67	44,808.72	20,521.95	38,550.67	82,436.82	129,987.49	80,062.12	31,925.37
Guthrie	16,063.12	39,365.96	55,429.08	33,736.85	21,692.23	13,778.22	47,583.60	61,361.82	47,313.64	14,048.18
Hamilton	*7,141.60	31,624.59	24,482.99	22,858.26	1,624.73	13,561.09	51,696.89	65,168.58	42,774.41	22,394.17
Hancock	12,980.17	50,904.36	63,884.53	58,476.98	5,407.55	34,391.12	55,439.77	89,839.80	56,639.09	33,199.80
Hardin	5,741.41	46,425.19	52,166.60	34,796.62	17,369.98	15,428.71	45,362.85	60,791.56	45,069.90	15,691.57
Harrison	*488.05	84,667.12	84,179.07	91,010.11	*6,831.04	19,106.90	43,924.29	63,091.19	41,309.77	21,721.42
Henry	34,130.42	39,215.87	73,346.29	32,000.00	41,346.29	14,791.38	44,584.66	59,376.46	43,280.28	16,096.18
Howard	6,809.29	33,268.00	40,077.89	35,715.29	4,362.60	6,861.61	34,809.89	37,611.50	14,621.40	23,000.10
Humboldt	*6,194.86	35,393.79	29,198.93	28,018.18	1,180.75	5,732.78	36,680.62	42,413.40	29,589.33	12,824.07
Ida	*3,906.50	74,917.03	71,010.53	59,609.19	11,401.34	19,032.76	52,797.07	71,829.83	54,115.72	17,714.11
Iowa	16,907.52	36,917.74	53,825.26	49,415.22	4,410.04	14,492.24	27,765.97	42,258.21	28,786.46	13,471.75
Jackson	3,003.69	73,488.26	76,491.95	74,431.89	2,060.06	9,916.46	65,265.64	75,182.10	54,567.16	20,614.94
Jasper	26,517.59	50,512.17	77,029.76	49,524.70	27,505.06	6,007.59	45,159.15	51,166.74	44,081.72	7,085.02
Jefferson	*5,957.22	66,889.87	60,932.65	48,410.14	12,522.51	752.42	38,561.81	39,314.23	31,203.88	8,110.35
Johnson	3,134.59	61,372.08	67,506.67	54,016.16	13,490.51	12,038.99	52,297.16	64,336.15	52,985.87	11,350.28
Jones	*6,190.08	113,359.38	107,169.30	97,828.70	9,340.60	15,608.32	62,222.64	77,830.96	56,088.75	21,742.21
Keokuk	6,003.14	54,636.52	60,639.66	54,022.20	6,617.46	4,384.32	31,423.26	35,807.58	29,253.85	6,553.73
Kossuth	*1,292.83	56,469.41	55,266.58	50,792.51	4,474.07	9,777.65	58,646.05	68,423.70	53,869.73	14,553.97
Lee	16,070.00	114,320.09	130,390.09	129,503.73	*886.36	17,617.57	50,559.55	68,168.12	49,156.73	19,011.39
Linn	*8,293.66	101,886.90	93,593.24	93,961.34	*368.10	14,071.52	47,672.07	61,743.59	40,038.51	21,705.08
Louis	*3,158.03	198,025.23	189,867.20	195,516.19	*5,648.99	10,370.62	101,469.22	111,839.84	97,463.62	14,376.22
Louisa	6,164.70	27,763.64	33,928.34	23,727.63	10,200.71	5,771.39	33,293.66	39,965.95	28,383.87	10,681.18
Lucas	1,985.60	54,889.75	56,866.35	54,217.71	2,648.64	1,376.78	34,596.21	35,962.99	33,404.74	2,558.25
Lyon	39,447.76	61,307.13	100,754.89	90,416.80	10,338.09	16,347.66	45,081.77	61,429.43	39,495.19	21,934.24
Madison	5,169.69	45,309.10	50,478.79	41,949.84	8,528.95	6,089.68	45,281.19	51,370.87	47,040.09	4,330.78
Mahaska	7,276.13	54,177.25	61,453.38	56,179.70	5,273.68	6,477.29	66,844.79	73,329.08	60,068.25	13,253.83
Marion	5,936.56	53,849.11	59,785.67	37,119.15	22,666.52	14,714.12	68,389.67	83,103.79	60,890.06	22,204.73
Marshall	879.67	65,150.59	66,030.26	61,923.66	4,106.60	22,371.01	59,973.32	82,344.33	60,042.66	22,301.67
Mills	4,258.66	46,643.78	50,902.44	48,521.27	2,381.17	4,780.17	41,014.95	45,804.12	41,572.78	4,231.34
Mitchell	7,912.99	83,782.16	91,695.15	87,816.96	3,878.19	14,744.70	34,243.30	48,988.60	34,717.07	14,270.53
Monona	3,154.96	34,097.73	37,252.69	24,928.64	12,324.05	11,997.02	36,599.52	48,597.14	36,843.33	11,753.81
Monroe	262.47	30,305.43	30,567.90	25,846.51	4,721.39	2,533.60	29,218.17	31,751.77	28,877.48	2,874.29
Montgomery	9,457.63	24,638.05	34,095.71	20,745.53	13,350.18	844.78	34,729.04	35,373.82	33,875.19	1,608.63
Muscatine	5,979.75	54,985.96	60,965.71	59,544.54	1,421.17	11,088.41	41,294.05	52,382.46	38,600.47	13,691.99
O'Brien	20,021.89	41,585.04	61,606.93	49,656.34	11,950.59	54,051.91	59,745.52	113,796.43	69,963.30	52,833.13
Osceola	872.95	33,609.99	34,482.94	26,938.25	7,544.69	31,119.56	39,178.12	70,297.68	39,332.02	30,965.66
Page	699.32	79,501.52	80,200.84	97,342.94	*17,142.10	13,543.88	46,543.15	60,087.03	47,568.28	12,518.75
Palo										

County	County Road Cash Fund					Township Road Drag and Drainage Funds				
	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements 1923	Balance or Overdraft Jan. 1, 1924	Balance or Overdraft Jan. 1, 1923	Receipts 1923	Total	Disbursements 1923	Balance or Overdraft Jan. 1, 1924
Story.....	6,389.90	68,850.47	75,239.77	53,907.22	21,332.55	29,777.94	75,965.23	105,743.17	68,662.02	37,081.15
Tama.....	6,227.00	74,879.67	81,107.36	77,915.77	3,191.59	12,651.04	69,368.13	81,419.17	67,276.90	14,142.18
Taylor.....	6,244.82	73,312.56	79,557.38	72,545.20	7,012.18	8,842.25	44,937.16	53,779.41	43,728.15	10,051.26
Union.....	*5,008.94	44,730.01	39,721.07	30,476.42	9,244.65	1,220.18	10,966.23	12,186.41	11,034.45	1,151.96
Van Buren.....	2,932.79	16,716.23	19,649.02	19,124.47	524.55	3,412.81	34,134.37	37,547.18	31,392.17	6,155.01
Wapello.....	9,242.03	35,441.95	44,683.98	33,467.01	11,216.97	10,138.58	45,866.26	56,004.79	38,476.72	17,528.07
Warren.....	*14,944.21	97,199.21	82,255.00	67,814.70	14,440.30	3,794.35	43,065.57	47,469.92	41,310.07	6,149.85
Washington.....	2,160.93	45,496.52	47,657.45	43,174.13	4,483.32	8,212.67	38,132.76	46,345.43	39,447.08	6,898.35
Wayne.....	15,133.75	58,936.09	74,069.84	44,552.93	29,516.91	5,296.71	36,244.70	41,541.41	35,295.98	6,245.43
Webster.....	*12,857.32	103,840.41	90,983.09	116,212.88	*25,229.79	32,854.51	93,351.77	126,206.28	93,916.46	32,289.82
Winnebago.....	9,423.89	56,126.60	64,550.49	54,282.99	10,267.50	16,284.88	59,880.25	76,165.13	50,446.56	25,718.57
Winneshiek.....	*7,068.38	64,186.46	57,117.08	54,453.07	2,664.01	7,070.00	64,411.05	71,481.05	60,507.31	10,973.74
Woodbury.....	*13,508.03	202,547.52	189,039.49	187,868.60	1,170.89	17,081.31	45,077.25	62,158.56	44,411.61	17,746.95
Worth.....	*838.68	26,832.44	25,993.76	12,417.66	13,576.10	6,638.92	39,539.20	46,178.12	41,971.88	4,206.24
Wright.....	13,393.90	172,303.86	185,697.76	158,324.06	27,373.70	11,974.67	54,302.21	66,276.88	39,778.90	26,497.89
Total.....	\$ 435,073.29	\$6,776,767.00	\$7,211,840.29	\$6,470,775.70	\$ 741,064.59	\$1,269,509.57	\$5,008,920.15	\$6,278,429.72	\$4,776,965.85	\$ 1,501,463.87

SUMMARY TABLE NO. 22

Bonded Indebtedness of Counties—Annual Report of County Engineers

County	Bridge				County Roads			
	Bonds Outstanding Jan. 1, 1923	Bonds Issued 1923	Bonds Paid 1923	Bonds Outstanding Jan. 1, 1924	Bonds Outstanding Jan. 1, 1923	Bonds Issued 1923	Bonds Paid 1923	Bonds Outstanding Jan. 1, 1924
Adair.....	\$ 67,229.48		\$ 3,000.00	\$ 64,229.48	\$ 23,270.50			\$ 23,270.50
Adams.....	85,000.00	\$ 24,000.00	5,000.00	104,000.00				
Allamakee.....	114,000.00	26,775.95	3,000.00	135,775.95	11,000.00	\$ 14,638.39	\$ 3,000.00	22,638.39
Appanoose.....	62,259.24			62,259.24	64,498.61	6,463.63		70,962.24
Audubon.....	47,000.00	17,900.00		64,900.00				
Benton.....	240,600.00		14,000.00	226,600.00	9,400.00			9,400.00
Black Hawk.....	182,000.00			182,000.00				
Boone.....	217,450.00			217,450.00	193,700.00	10,000.00		203,700.00
Bremer.....	37,093.60		4,000.00	33,093.60	15,000.00			15,000.00
Buchanan.....	30,000.00		2,500.00	27,500.00	30,000.00		2,500.00	27,500.00
Buena Vista.....	297,500.00		3,000.00	294,500.00	295,500.00		3,000.00	292,500.00
Butler.....	60,500.00		33,000.00	27,500.00	7,000.00		7,000.00	
Calhoun.....	58,750.00		2,750.00	56,000.00	227,000.00	35,000.00	5,000.00	257,000.00
Carroll.....	120,000.00		5,000.00	115,000.00				
Cass.....	211,000.00			211,000.00	52,000.00			52,000.00
Cedar.....	72,000.00		12,000.00	60,000.00				
Cerro Gordo.....	88,250.00		3,450.00	84,800.00	57,037.27			57,037.27
Cherokee.....	404,988.08		6,000.00	398,988.08	72,011.92			72,011.92
Chickasaw.....	164,500.00			164,500.00		9,000.00		9,000.00
Clarke.....	111,132.18			111,132.18	88,236.02			88,236.02
Clay.....	221,470.00		14,000.00	207,470.00	274,030.00	30,000.00	14,000.00	290,030.00
Clayton.....	25,000.00		8,000.00	17,000.00				
Clinton.....	80,000.00		10,000.00	70,000.00	14,000.00			14,000.00
Crawford.....	540,000.00		6,000.00	534,000.00	340,000.00		4,000.00	336,000.00
Dallas.....	180,150.23	31,730.13		211,889.36	112,000.00	75,471.90		187,471.90
Davis.....	164,000.00	11,500.00	3,000.00	172,500.00				
Decatur.....	175,300.00		8,200.00	167,100.00	62,500.00		8,000.00	54,500.00
Delaware.....	56,600.00		5,000.00	51,600.00	36,400.00		5,000.00	31,400.00
Des Moines.....								
Dickinson.....				255,000.00				
Dubuque.....	265,000.00			265,000.00	218,500.00		10,000.00	208,500.00
Emmet.....			7,000.00	143,000.00		40,000.00		40,000.00
Fayette.....	150,000.00			143,000.00	90,024.42	11,386.66		102,011.08
Floyd.....	172,813.58	73,061.05		245,874.63				

County	Bridge				County Roads			
	Bonds Outstanding Jan. 1, 1923	Bonds Issued 1923	Bonds Paid 1923	Bonds Outstanding Jan. 1, 1924	Bonds Outstanding Jan. 1, 1923	Bonds Issued 1923	Bonds Paid 1923	Bonds Outstanding Jan. 1, 1924
Franklin.....	40,000.00			40,000.00	339,000.00		10,000.00	329,000.00
Fremont.....	327,000.00		22,500.00	304,500.00	8,000.00			88,000.00
Greene.....	337,000.00			337,000.00	71,000.00			71,000.00
Grundy.....	390,000.00		5,000.00	385,000.00				
Guthrie.....	247,916.91		10,000.00	237,916.91	62,083.09			62,083.09
Hamilton.....	72,000.00			72,000.00	359,000.00		17,000.00	342,000.00
Hancock.....								
Hardin.....	203,704.22	12,000.00	6,000.00	209,704.22	199,204.10	36,000.00	7,000.00	228,204.10
Harrison.....	234,868.47		19,000.00	215,868.47	35,299.53			35,299.53
Henry.....								
Howard.....	37,200.00		5,000.00	32,200.00	17,300.00			17,300.00
Humboldt.....	47,000.00		1,000.00	46,000.00	33,000.00	12,800.00		45,800.00
Ida.....	141,000.00			141,000.00	27,000.00			27,000.00
Iowa.....	256,078.85		10,000.00	246,078.85	58,185.00			58,185.00
Jackson.....	170,000.00		7,000.00	163,000.00				
Jasper.....	264,000.00			264,000.00	185,000.00	22,000.00	5,000.00	202,000.00
Jefferson.....	77,151.91		5,000.00	72,151.91	34,468.00	21,000.00	5,000.00	50,468.00
Johnson.....	50,000.00	17,745.23		67,745.23	24,000.00	32,000.00	10,000.00	46,000.00
Jones.....	41,445.00			41,445.00	11,555.00			11,555.00
Keokuk.....								
Kossuth.....	160,500.00		10,000.00	150,500.00	396,000.00		8,000.00	388,000.00
Lee.....	22,498.86			22,498.86		34,919.00		34,919.00
Linn.....	50,000.00	12,000.00	10,000.00	52,000.00	40,000.00	58,000.00	10,000.00	88,000.00
Louisa.....	77,021.44		6,500.00	70,521.44				
Lucas.....	188,100.00	7,000.00		195,100.00	41,000.00	24,000.00		65,000.00
Lyon.....	84,456.98			84,456.98	15,543.02			15,543.02
Madison.....	58,228.25			58,228.25	39,567.58			39,567.58
Mahaska.....	112,895.12	8,826.52	2,000.00	119,721.64	43,004.19		750.00	42,254.19
Marion.....	300,448.88		5,000.00	295,448.88	70,531.94		5,000.00	65,531.94
Marshall.....	495,000.00			495,000.00	295,000.00			295,000.00
Mills.....	212,000.00	114,225.00	5,000.00	321,225.00	187,000.00	23,464.52	5,000.00	205,464.52
Mitchell.....	64,444.00	14,270.00	3,000.00	75,714.00	207,566.00	13,760.00		221,316.00
Monona.....	23,000.00		3,000.00	20,000.00	26,000.00		4,000.00	22,000.00
Monroe.....	17,000.00			17,000.00	159,500.00	14,500.00		174,000.00
Montgomery.....	357,635.00		11,250.00	346,385.00	107,365.00		3,750.00	103,615.00
Muscatine.....	23,000.00			23,000.00	57,000.00		8,000.00	49,000.00

O'Brien.....	98,483.75			98,483.75	20,291.25			20,291.25
Osceola.....	165,500.00		7,000.00	158,500.00				
Page.....	312,500.00	53,680.00	6,000.00	360,180.00	127,000.00	25,950.00		152,950.00
Palo Alto.....	157,800.00		7,500.00	150,300.00	223,200.00	20,000.00	2,000.00	241,200.00
Plymouth.....								
Pocahontas.....	149,000.00		15,000.00	134,000.00	298,000.00	74,000.00	7,000.00	385,000.00
Polk.....	585,000.00	29,000.00	45,000.00	569,000.00	724,000.00		15,000.00	709,000.00
Pottawattamie.....	638,350.00			638,350.00	75,000.00			75,000.00
Poweshiek.....	203,000.00			203,000.00	31,500.00			31,500.00
Ringgold.....	191,423.49		4,000.00	197,423.49	19,402.45	20,000.00		39,402.45
Sac.....	169,200.00			169,200.00	64,800.00		5,000.00	59,800.00
Scott.....	101,000.00	332,000.00		433,000.00	20,600.00			20,600.00
Shelby.....	95,000.00	30,000.00		125,000.00				
Sioux.....								
Story.....	30,000.00			30,000.00	283,000.00			283,000.00
Tama.....	223,468.51		5,000.00	218,468.51	20,031.49			20,031.49
Taylor.....	34,444.89	6,967.10	1,878.81	39,533.88	20,565.11	33,581.75	1,121.19	53,015.67
Union.....	138,000.00		5,000.00	133,000.00	5,000.00			5,000.00
Van Buren.....								
Wapello.....	288,500.00			288,500.00	82,000.00			82,000.00
Warren.....	62,500.00			62,500.00				
Washington.....	57,000.00		4,000.00	53,000.00	16,000.00		2,000.00	14,000.00
Wayne.....	29,138.99		5,000.00	17,138.99	29,354.71			29,354.71
Webster.....					66,000.00			66,000.00
Winnebago.....					210,000.00	20,000.00		230,000.00
Winneshiek.....	217,000.00		85,000.00	132,000.00				
Woodbury.....	126,000.00		8,000.00	118,000.00	60,000.00			60,000.00
Worth.....								
Wright.....	111,000.00		6,000.00	105,000.00	341,913.43	80,000.00		421,913.43
Total.....	\$ 13,960,468.91	\$ 822,680.98	\$ 610,528.81	\$ 14,272,651.08	\$ 8,291,509.63	\$ 797,875.76	\$ 192,121.19	\$ 8,897,354.20

SUMMARY TABLE NO. 23

Total Indebtedness of Counties for County Roads and Bridges January 1, 1924—Annual Report of County Engineers

County	Bridges				Road					Total Road and Bridge Indebtedness	
	Outstanding Bills	Warrants Issued and Stamped	Warrants Outstanding Not Stamped	Bonds Outstanding	Total	Outstanding Bills	Warrants Issued and Stamped	Warrants Outstanding Not Stamped	Bonds Outstanding		Total
Adair	\$ 860.42		\$ 2,619.91	\$ 64,229.48	\$ 67,709.81	\$ 620.48		\$ 2,338.00	\$ 23,270.50	\$ 26,228.98	\$ 93,688.79
Adams			536.24	104,000.00	104,536.24						104,536.24
Allamakee	3,059.90		500.00	135,775.95	139,425.85	4,769.84			22,638.30	27,408.14	166,833.99
Appanoose				62,250.24	62,250.24			\$ 1,127.63	70,902.24	72,029.87	134,282.11
Audubon		\$ 12,193.11	4,116.20	64,900.00	81,209.31						81,209.31
Benton				226,000.00	226,000.00				9,400.00	9,400.00	236,000.00
Black Hawk	11.00	5,209.40	5,831.68	182,000.00	193,052.08	2,034.94		102.18		2,197.12	195,249.20
Boone	5,000.00		141.38	217,450.00	222,591.38	3,000.00	85,997.50	1,783.25	203,700.00	294,480.75	517,072.13
Bremer	117.60			33,063.69	33,211.20	3,357.15			15,000.00	18,357.15	51,568.35
Buchanan			369.67	27,500.00	27,869.67			1,106.74	27,500.00	28,606.74	56,476.41
Buena Vista				294,500.00	294,500.00				292,500.00	292,500.00	587,000.00
Butler	4,308.94			27,500.00	31,808.94	3,050.74				3,050.74	34,859.68
Calhoun				56,000.00	56,000.00		2,000.00		257,000.00	259,000.00	315,000.00
Carroll				115,000.00	115,000.00	3,022.54	8,503.03			12,285.57	127,285.57
Cass				211,000.00	211,000.00				52,000.00	52,000.00	263,000.00
Cedar	700.68		8,000.32	60,000.00	68,700.80	1,881.71				1,881.71	70,582.51
Cerro Gordo	1,346.26	115.80		84,800.00	86,262.06	950.84			57,037.27	57,988.11	144,250.17
Cherokee			241.98	398,988.08	399,230.06			1,848.00	72,011.92	73,860.52	473,090.58
Chickasaw				164,500.00	164,500.00				9,000.00	9,000.00	173,500.00
Clarke			2,539.69	111,132.18	113,671.87	4,003.37	25,500.00		88,236.02	117,739.29	231,411.16
Clay			216.50	207,470.00	207,686.50			596.32	290,030.00	290,626.32	498,312.82
Clayton				17,000.00	17,000.00						17,000.00
Clinton	900.00	32,857.70		70,000.00	103,757.70	3,052.00	27,937.74		14,000.00	44,989.74	148,747.44
Crawford	4,000.00		1,756.10	534,000.00	539,756.10	1,500.00		975.80	336,000.00	338,475.80	878,231.90
Dallas			442.74	211,880.36	212,323.10			704.30	187,471.90	188,176.20	400,509.30
Davis			1,247.52	172,500.00	173,747.52			1,058.40		1,058.40	174,805.92
Deaure	2,724.43			167,100.00	169,824.43	1,760.00			54,500.00	56,260.00	226,084.43
Delaware	510.44		164.74	51,000.00	52,275.18	2,781.61		1,204.25	31,400.00	35,388.86	87,664.04
Des Moines	100.00				100.00	100.00				100.00	200.00
Dickinson											
Dubuque	400.00			255,000.00	255,400.00	1,000.00				1,000.00	256,400.00
Emmet	162.20				162.20	451.67			208,500.00	208,951.67	209,113.87
Fayette	500.00		82.09	143,000.00	143,582.09	809.00		1,168.40	40,000.00	41,968.40	185,550.49

Floyd	266.33		1,015.35	245,874.63	247,156.31	3,181.58		886.03	102,011.08	106,078.09	353,235.09
Franklin				40,000.00	40,000.00				329,000.00	329,000.00	369,000.00
Freemont	500.00		300.00	301,500.00	305,300.00	200.00		150.00	38,000.00	38,350.00	343,650.00
Greene	9,329.07		433.71	337,000.00	346,762.78			3,921.51	71,000.00	74,921.51	421,684.29
Grundy	1,250.00			385,000.00	386,550.00	75.00		8,150.00		8,225.00	394,775.00
Guthrie			179.19	237,916.91	238,096.10		12,053.47		62,083.09	74,136.56	312,232.66
Hamilton				72,000.00	72,000.00				342,000.00	342,000.00	414,000.00
Hancock	1,000.00				1,000.00	600.00				600.00	1,600.00
Hardin	6,000.00			209,704.22	215,704.22	2,000.00			228,294.10	230,294.10	445,998.32
Harrison	1,500.00		1,000.00	215,868.47	218,368.47	1,000.00		500.00	35,209.53	36,709.53	255,168.00
Henry			28.10		28.10			183.80		183.80	211.90
Howard			2,971.55	32,200.00	35,171.55			567.24	17,300.00	17,867.24	53,038.79
Humboldt	3,705.65			46,000.00	49,705.65	375.96			45,800.00	46,175.96	95,881.61
Ida				141,000.00	141,000.00				27,000.00	27,000.00	168,000.00
Iowa				246,078.85	246,078.85				58,185.00	58,185.00	304,263.85
Jackson				163,000.00	163,000.00						163,000.00
Jasper	1,000.00	30,664.03		264,000.00	295,664.03	100.00			202,000.00	202,100.00	497,764.03
Jefferson	1,035.35		102.35	72,151.91	73,289.61	477.23		6.00	50,408.00	51,048.86	124,338.47
Johnson	1,200.00			67,745.23	68,945.23	2,000.00			46,000.00	48,000.00	116,945.23
Jones			1,141.16	41,445.00	42,586.16			823.35	11,555.00	12,378.35	54,964.51
Keokuk	1,894.19				1,894.19	2,860.97				2,860.97	4,755.16
Kossuth	400.00			150,500.00	150,900.00	7,000.00			388,000.00	395,000.00	545,900.00
Lee			1,858.37	22,498.86	24,357.23			2,655.50	34,919.00	37,572.73	62,325.86
Linn	19,428.23	34,051.36		52,000.00	105,479.59	34,132.27	96,502.53		88,000.00	218,634.80	324,114.39
Louisia			5,319.31	70,921.44	75,840.75			1,987.13		1,987.13	77,827.88
Lucas			1,006.36	195,100.00	196,106.36			2,485.73	65,000.00	67,485.73	263,592.09
Lyon	1,033.56			84,456.98	85,490.54	18,506.81			15,543.02	34,139.83	119,630.37
Madison				58,228.25	58,228.25				39,557.58	39,557.58	97,785.83
Mahaska	2,000.00		197.20	119,721.64	121,918.84	112.50		7.29	42,254.19	42,374.08	164,292.92
Marion	3,000.00			295,448.88	298,448.88	500.00			65,531.94	66,031.94	364,480.82
Marshall	183.65		1,446.74	495,000.00	496,630.39	51.69		245.73	295,000.00	295,295.72	791,927.81
Mills		310.60		321,225.00	321,535.60		1,132.80		205,464.52	206,597.32	528,132.92
Mitchell				75,714.00	75,714.00				221,316.00	221,316.00	297,030.00
Monona			240.27	20,000.00	20,240.27			563.39	22,000.00	22,563.39	42,803.66
Monroe			259.55	17,000.00	17,259.55			132.15	174,000.00	174,132.15	191,391.70
Montgomery	750.00		218.67	346,385.00	347,353.67			227.75	103,615.00	103,842.75	451,196.42
Muscatine	274.71			23,000.00	23,274.71	1,550.00			49,000.00	50,554.71	73,829.42
O'Brien	147.65		331.83	98,483.75	98,963.23	250.00			2,413.24	2,663.24	121,917.72
Osceola	300.00		2,000.00	158,500.00	160,800.00	400.00				400.00	161,200.00
Page	\$ 4,401.82	10,010.00		309,180.00	378,591.62	6,183.35	13,366.73		152,350.00	172,500.00	551,091.70
Palo Alto	87.13		3,212.78	150,300.00	153,599.91	383.64		1,705.66	241,200.00	243,289.30	396,889.21
Plymouth			7,149.25		7,149.25			5,740.97		5,740.97	12,890.22
Pocahontas	500.00			134,000.00	134,500.00	1,200.00			395,000.00	396,200.00	530,700.00
Polk	7,500.00		17,465.59	509,000.00	594,265.59	13,116.00	10,353.34		709,000.00	722,469.34	1,326,734.93
Pottawattamie	16,000.00			638,350.00	654,350.00	4,071.55			75,000.00	79,071.55	733,421.55
Poweshiek				203,000.00	203,000.00			7,450.00	31,500.00	38,950.00	241,950.00
Ringgold				97,423.49	97,423.49				29,402.45	29,402.45	126,825.94
Sac			32.78	169,200.00	169,232.78			484.91	59,800.00	60,284.91	229,517.69

County	Bridges			Road			Total Road and Bridge Indebtedness
	Outstanding Bills	Warrants Issued and Stamped	Warrants Outstanding Not Stamped	Outstanding Bills	Warrants Issued and Stamped	Warrants Outstanding Not Stamped	
Scott	4,894.06	280.92	488,103.98	68.00	103.43	20,703.43	438,807.41
Shelby	.....	.....	125,032.72	.....	.....	63.00	125,105.72
Sioux	.....	.....	30,000.00	1,500.00	.....	.....	31,500.00
Story	400.00	.....	218,468.51	4,337.19	.....	.....	223,205.70
Tama	.....	.....	39,533.18	.....	.....	.....	39,533.18
Taylor	4,337.19	23.30	133,023.30	.....	28.40	5,028.40	141,427.89
Union	.....	.....	.....	.....	.....	.....	.....
Van Buren	.....	.....	288,500.00	.....	.....	82,000.00	370,500.00
Wapello	.....	3,297.44	286,118.74	.....	426.17	.....	286,544.91
Warren	299.74	30.00	62,740.34	176.58	.....	.....	62,966.32
Washington	.....	.....	53,000.00	.....	.....	14,000.00	67,000.00
Wayne	500.00	.....	17,139.99	700.00	.....	.....	17,839.99
Webster	.....	.....	.....	.....	.....	.....	.....
Winneshago	.....	.....	132,000.00	190.07	.....	.....	132,190.07
Winneshiek	1,394.18	26,457.70	159,871.88	500.00	4,812.19	.....	166,564.97
Woodbury	.....	10,902.63	118,000.00	.....	.....	60,000.00	188,902.63
Worth	.....	.....	105,000.00	.....	.....	.....	105,000.00
Wright	.....	.....	.....	.....	.....	421,913.43	421,913.43
Total	\$125,444.13	\$167,216.95	\$14,272,651.08	\$149,061.22	\$59,252.36	\$9,374,026.36	\$14,535,194.12

SUMMARY TABLE NO. 24

Classification of Township Road Work—Annual Report of County Engineers

County	No. of Townships in County	No. of Townships Reporting	Construction	Maintenance	Special Cases (Railroad Crossings)	Total
Adair	18	18	\$ 32,041.77	\$ 27,372.26	.....	\$ 59,414.03
Adams	12	12	.....	31,421.08	.....	31,421.08
Allamakee	18	18	2,665.97	41,251.63	.....	43,917.60
Appanoose	17	17	.....	37,790.27	.....	37,790.27
Audubon	12	10	6,374.86	30,680.94	\$ 56.00	37,111.80
Benton	20	13	.....	56,040.07	.....	56,040.07
Black Hawk	18	18	5,781.83	51,225.85	.....	57,007.68
Boone	17	17	42,253.06	.....	8,067.33	123,114.41
Bremer	14	7	.....	24,769.63	.....	24,769.63
Buchanan	16	12	3,066.90	45,921.14	.....	48,978.04
Buena Vista	17	13	28,725.52	31,668.70	.....	60,394.22
Butler	16	16	11,144.95	41,798.46	.....	52,943.41
Calhoun	16	16	23,300.45	34,331.99	.....	57,632.44
Carroll	16	14	8,714.44	47,692.48	.....	56,406.92
Cass	16	7	.....	22,503.83	.....	22,503.83
Cedar	17	10	.....	54,959.87	.....	54,959.87
Cerro Gordo	16	16	22,118.92	48,214.72	.....	70,333.64
Cherokee	16	13	.....	36,861.21	.....	36,861.21
Chickasaw	12	12	3,594.42	42,928.49	.....	46,522.91
Clarke	12	9	.....	22,940.72	.....	22,940.72
Clay	16	8	27,766.75	12,038.82	.....	39,805.57
Clayton	22	10	.....	31,512.73	.....	31,512.73
Clinton	20	16	.....	63,769.04	.....	63,769.04
Crawford	20	16	.....	82,781.49	.....	82,781.49
Dallas	16	16	91,458.11	57,690.19	.....	149,148.30
Davis	15	15	.....	34,015.33	.....	34,015.33
Decatur	16	14	.....	26,509.91	.....	26,509.91
Delaware	16	15	.....	49,363.36	.....	49,363.36
Des Moines	13	12	3,592.52	29,109.97	.....	32,702.49
Dickinson	12	9	23,825.09	18,430.46	.....	42,255.55
Dubuque	17	11	.....	42,154.88	.....	42,154.88
Emmet	12	12	28,312.60	18,929.41	.....	47,242.01
Fayette	20	19	.....	78,389.59	.....	78,389.59
Floyd	12	10	8,024.90	38,516.92	.....	46,541.82
Franklin	16	13	4,370.59	48,135.30	.....	52,505.89
Fremont	13	7	.....	23,781.04	.....	23,781.04
Greene	15	15	13,654.22	75,407.90	.....	89,062.12
Grundy	14	12	17,339.21	29,476.80	.....	46,816.01
Guthrie	17	12	4,337.64	33,952.08	4,484.09	42,774.41
Hamilton	16	12	18,421.33	31,526.38	2,559.00	52,506.71
Hancock	16	11	17,448.60	27,651.99	.....	45,099.99
Hardin	15	19	7,789.32	33,580.45	.....	41,369.77
Harrison	20	13	2,795.06	40,216.00	.....	43,011.06
Henry	12	10	.....	27,059.10	.....	27,059.10
Howard	12	11	3,109.44	28,323.53	.....	31,433.97
Humboldt	12	11	57,827.76	14,092.07	.....	71,919.83
Ida	12	7	6,393.31	19,727.06	.....	26,090.37
Iowa	16	16	21,323.44	35,113.45	.....	56,436.89
Jackson	18	14	1,338.08	43,179.68	.....	44,517.76
Jasper	19	8	1,553.60	29,650.28	.....	31,203.88
Jefferson	12	12	1,580.28	51,405.59	.....	52,985.87
Johnson	21	16	1,365.93	54,722.82	.....	56,088.75
Jones	16	10	3,634.23	33,067.29	.....	36,701.52
Keokuk	17	17	37,351.70	16,440.13	37.60	53,869.43
Kossuth	12	12	19,152.00	33,231.74	.....	52,383.74
Lee	15	14	.....	40,038.51	.....	40,038.51
Linn	20	20	18,083.44	70,815.20	2,257.51	91,156.15
Louis	12	9	.....	28,383.87	.....	28,383.87
Lucas	12	11	2,360.74	34,465.26	.....	36,826.00
Lyon	18	17	668.50	38,796.69	.....	39,465.19
Madison	16	15	.....	47,040.09	.....	47,040.09
Mahaska	18	18	6,886.82	49,556.35	3,625.08	60,068.25
Marion	15	10	.....	83,103.79	.....	83,103.79
Marshall	18	16	8,747.58	54,816.35	.....	63,563.93
Mills	13	13	18,078.08	25,635.21	4,246.92	47,960.21
Mitchell	16	14	1,753.10	34,258.76	.....	36,011.86
Monona	19	14	.....	35,647.65	2,725.23	38,372.88

SUMMARY TABLE NO. 24—(Continued)

County	No. of Townships in County	No. of Townships Reporting	Construction	Maintenance	Special Cases (Railroad Crossings)	Total	Tractors Estimated		Trucks Estimated		Concrete Mixers Estimated		Pile Drivers Estimated		Heavy Graders Estimated		Patrol Graders Estimated		Maintainers Estimated		
							No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Monroe	12	10		28,004.48		28,004.48															
Montgomery	12	12	5,939.00	24,796.03	379.30	31,055.33															
Muscatine	14	14	2,084.01	37,501.50	1,831.07	42,117.27															
O'Brien	16	16	7,773.80	53,180.41		60,954.21															
Osceola	11	11	19,806.49	28,360.51		48,167.00															
Page	16	16	6,552.06	38,531.11		45,083.17															
Palo Alto	16	9	12,000.80	17,761.39	300.58	30,132.77															
Plymouth	24	11	5,645.01	39,571.06		45,216.07															
Pocahontas	18	17	30,462.27	30,687.10		61,149.37															
Polk	19	11	12,305.23	29,901.77		42,207.00															
Pottawattamie	28	19		79,214.49		79,214.49															
Potosi	16	13	6,931.57	36,745.64		43,677.21															
Ringgold	16	8		28,577.18		28,577.18															
Sac	16	16	19,195.13	51,021.06		70,216.19															
Scott	13	14	26,545.49	17,794.36		44,339.85															
Shelby	16	16	12,881.49	54,000.97		66,882.46															
Sioux	23	22	1,432.74	62,480.51		63,913.25															
Story	16	15	39,326.72	48,325.30		87,652.02															
Tama	21	16		67,274.89		67,274.89															
Taylor	17	17	3,643.67	49,084.48		52,728.15															
Union	12	4		12,186.36		12,186.36															
Van Buren	14	14	4,000.19	22,781.78	654.25	27,436.22															
Wapello	16	12	150.14	60,713.49		60,863.63															
Washington	15	8		38,441.31		38,441.31															
Wayne	16	14		34,729.00		34,729.00															
Webster	23	20	28,560.75	55,350.71		83,911.46															
Winnebago	12	12		51,494.56		51,494.56															
Winneshiek	20	19		60,507.31		60,507.31															
Woodbury	23	15	5,046.17	37,325.35	5,486.01	47,857.53															
Worth	12	11	19,426.77	22,545.11		41,971.88															
Wright	16	10	32,279.17	8,797.39		41,076.56															
Total reported	1,907	1,307	1,994,602.29	86,892,480.91	8,422,408.23	\$ 4,919,611.43															
Not reported, estimated		300	228,309.00	801,150.00	9,747.00	1,129,215.00															
Grand total	1,907	1,607	2,222,911.29	87,693,630.91	8,432,155.23	\$ 6,048,826.43															

SUMMARY TABLE NO. 25—PART I.
Inventory of Equipment and Machinery Showing Estimated Value January 1, 1924—Owned by County—Annual Report of County Engineers

County	Tractors Estimated		Trucks Estimated		Concrete Mixers Estimated		Pile Drivers Estimated		Heavy Graders Estimated		Patrol Graders Estimated		Maintainers Estimated	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Adair	1	2,000	1	150	4	600	1	600	4	2,250	0	650	1	10
Adams														
Albany	4	4,300	1	50	1	250	1	25	1	300	19	1,475	1	150
Albia	1	10,000							4	1,800	1	1,175	1	150
Ansonia	1	1,000						1	2,100	14	1,175	1	425	
Ashton	12	7,500	4	1,265				2	2,250	2	700	8	400	
Buck Hawk	1	1,500	6	2,800				1	1,200	1	1,000	4	850	
Burlington	1	1,000	1	700	1	750	1	150	1	1,800	7	1,200	1	125
Buena Vista	1	2,000						1	1,200	1	1,000	1	1,150	
Calhoun	1	2,000						1	1,200	1	1,000	1	1,150	
Cedar	1	2,000						1	1,200	1	1,000	1	1,150	
Cerro Gordo	1	2,000						1	1,200	1	1,000	1	1,150	
Chariton	1	2,000						1	1,200	1	1,000	1	1,150	
Cherokee	1	2,000						1	1,200	1	1,000	1	1,150	
Clarke	1	2,000						1	1,200	1	1,000	1	1,150	
Clay	1	2,000						1	1,200	1	1,000	1	1,150	
Clinton	1	2,000						1	1,200	1	1,000	1	1,150	
Crawford	1	2,000						1	1,200	1	1,000	1	1,150	
Dallas	1	2,000						1	1,200	1	1,000	1	1,150	
Dawson	1	2,000						1	1,200	1	1,000	1	1,150	
Delaware	1	2,000						1	1,200	1	1,000	1	1,150	
Des Moines	1	2,000						1	1,200	1	1,000	1	1,150	

SUMMARY TABLE NO. 25—PART I—(Continued)

County	Tractors Estimated		Trucks Estimated		Concrete Mixers Estimated		Pile Drivers Estimated		Heavy Graders Estimated		Patrol Graders Estimated		Maintainers Estimated	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Dickinson	2	1,000							1	700	5	200	10	1,850
Dubuque	3	2,250			1	250			2	1,000				
Empet									1	300	18	1,460	3	420
Fayette	7	3,115	3	905	5	1,500			3	300	27	1,870		
Floyd	3	5,880	1	2,000					3	730	10	1,880	3	825
Franklin	3	500	1	600					2	900	12	1,700		
Fremont					1	370			1	150	7	490		
Greene	2	6,000	1	300	1	10			1	1,000	7	650	5	1,250
Grundy	1	2,500							2	300				
Guthrie	4	1,600	2	325					1	800	8	280	21	2,870
Hamilton	2	3,000							9	4,900	10	1,350	2	500
Hancock									1	120	12	810	1	100
Hardin	5	2,750			3	200			6	2,400	6	665	3	1,350
Harrison	6	7,000			1	25			1	750	5	450	4	200
Henry	1	3,000			1	50			2	1,850	15	2,300	6	800
Howard	1	175			1	700			2	400	4	1,000	1	50
Humboldt	1	175			3	175			5	4,050	13	850	6	1,000
Ida	3	3,200	2	1,350	1	700			3	500	9	2,800	7	175
Jackson	4	8,000	4	2,500	1				3	1,788	18	3,500	4	325
Jasper	7	11,800			2	750			5	1,500	9	330	2	500
Jefferson	5	7,530			1	175			1	1,580	21	2,758	5	675
Johnson	3	6,900			1				2	200	9	1,500	6	550
Jones	2	4,800			3	800			2	2,200	21	2,650	4	1,200
Keokuk	4	4,290							3	1,500	7	800		
Kossuth	5	7,700	4	3,300	3				1	2,200	11	2,600	1	300
Lee					1	400			1	300	3	235	1	50
Linn	1	4,500	4	3,000	1				2	2,200	6	350	7	3,150
Louisa					2	600			1	1,000	11	500		
Lucas	2	1,200			3	100			3	2,200	3	235	1	50
Lyon	3	4,000			1	150			4	1,900	6	350	1	3,150
Madison	8	11,050	1	800	1	150			5	1,000	11	225		
Mahaska	3	4,000	5	4,900	1	150			7	1,000	6	350	7	3,150
Marion									1	1,000	11	225		

Marshall	2	1,050	2	300	3	175	1	45	4	2,025	8	640	4	705
Mills	1	250							6	1,750	15	1,035	12	1,400
Mitchell	2	6,700	1	1,650	4	450			6	2,400	6	600	6	1,000
Monona	3	4,100							3	1,200	9	715	2	500
Monroe	4	1,300			3	300			4	1,575	11	795	9	705
Montgomery									6	3,200	13	1,000	9	1,900
Muscatine	1	7,000	1	400	1	120			3	1,200	5	300	4	1,650
O'Brien	3	2,300	2	1,025	1				3	3,900	7	800	16	525
Osceola									2	2,250	10	800	4	1,000
Page	3	6,000	1	150	2	40			1	375	14	900	1	100
Palo Alto	1	3,000	4	4,100	1	200			4	2,400	23	1,650	11	2,800
Plymouth	1	600	1	500	1	50			5	400	7	470	14	650
Pocahontas	4	7,100			4	400			3	3,000	31	1,825	3	175
Polk									6	1,100	7	625	3	800
Pottawattamie	4	7,000	3	300	2	50			6	1,980	4	175	8	110
Poweshiek									1	200	9	480	1	200
Ringgold	1	300			2	250			1	900	12	1,070	8	1,125
Sac	1	1,600	9	3,000	2	150			2	1,100	9	700	9	900
Scott	2	9,200			1	600			5	3,400	8	250	5	700
Shelby	5	8,000	3	1,000	1				4	1,700	10	660	3	550
Sioux	2	4,000	1	100					8	5,900	9	1,350	1	200
Story	5	8,100			2	850			2	1,900	3	300	1	200
Tama	1	800	1	200	2	400			4	600	1	150	3	400
Taylor					2	900			2	1,900	4	200	3	300
Union	1	1,800			3	50			2	1,500	9	500	3	300
Van Buren	1	5,000	3	500	1	150			2	1,500	15	1,100	1	80
Wapello					1	625			1	1,200	13	800	1	80
Warren	4	10,300	1	400	2				2	1,750	11	475	11	1,825
Washington	2	5,250	1	250					1	175	6	600	5	900
Wayne	6	4,900	1						4	1,550	3	700	4	800
Webster	1	1,000			2	450			1	700	3	500	2	500
Winnebago	2	2,450	2	3,000	2	200			3	500	8	300	8	400
Winneshiek	1	1,600	1	700					2	700	27	2,130	1	350
Woodbury	2	1,000							1	1,000	6	350	1	350
Worth	3	1,200							2	700				
Wright									3	1,000				
Total	231	\$ 825,535	104	\$ 68,665	110	\$ 19,455	78	\$ 9,085	392	\$ 139,703	968	\$ 93,363	415	\$ 58,927

SUMMARY TABLE NO. 25—PART II

Inventory of Machinery and Equipment Showing Estimated Value January 1, 1924—Owned by Counties—Annual Report of County Engineers

County	Wheeled Scrapers Estimated		Slip Scrapers Estimated		Draggs Estimated		Fresnoes Estimated		Plows Estimated		Camp Outfits Estimated Value	Small Tools and Miscel. Estimated Value	Total Estimated Value
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value			
Adair	6	\$ 400	32	\$ 150	70	\$ 200			6	\$ 40	\$ 365	\$ 5,019	\$ 12,224
Adams	8	60	9	30	30	200	8	\$ 100	3	20		115	1,845
Allamakee	12	200	17	75	34	300			9	100		5,900	14,715
Appanoose	12	500			12	400			5	80	275	680	17,505
Audubon	7	170	12	70	68	475	2	40	4	35		20	2,500
Benton	11	195	3	25	51	1,000	2	25	3	15	125	3,000	16,900
Black Hawk	4	40	31	117	48	410						3,185	11,752
Boone	1	500			25	50					125	495	5,530
Bremer	15	50	10	40	28	350			4	200		850	4,990
Buchanan	9	275	18	150	40	400			14	90	200	388	7,193
Buena Vista	8	40	10	20	12	50	5	85	1	15	190	1,723	5,603
Butler	23	300	27	200	23	100	9	1,550	11	200	180	1,500	13,580
Calhoun	16	160	14	100	12	60	8	80	6	100	150	1,600	6,000
Carroll	5	250			14	100	4	75	1	15		500	3,450
Cass												1,000	6,150
Cedar	5	60	14	94	44	245	4	68	4	57			3,561
Cerro Gordo	12	200	3	12	31	350						675	6,137
Cherokee	4	100	24	125	50	900	2	25	3	25		550	6,925
Chickasaw	12	300	15	50	12	100			4	25	375	2,205	7,630
Clarke			8	15	45	250			5	20	200	2,620	17,280
Clay	1	20	6	20	12	165			1	10		425	3,705
Clayton	18	175	25	100	58	650			8	60	40	765	12,480
Clinton					92	1,070						480	10,650
Crawford			25	80	53	350			1	8	200	2,265	16,508
Dallas	4	150	15	100	71	350			6	50	300	1,315	23,896
Davis			24	120	53	300	9	90	5	10		1,700	14,405
Decatur	11	90	30	150	44	320	12	175	8	100	45	1,500	13,280
Delaware	12	200	24	150	90	300			13	100	225	1,750	10,475
Des Moines	5	30	9	25	27	200			10	75	500	500	4,930
Dickinson	5	100											4,750
Dubuque	2	120			25	400						4,200	8,220
Emmet					15	100			1	10	40	1,120	3,590

Fayette	22	310	43	123	34	154			4	40	2,000	3,000	14,357
Floyd	15	320	12	84	23	168			8	104	42	9,500	21,533
Franklin	12	300	22	50	15	150						4,000	8,700
Freemont	8	100	19	85	59	1,025			8	40		1,500	3,500
Greene	6	100	13	30	5	25			3	40		370	9,925
Grundy	6	500			36	100						170	3,570
Guthrie	4	110	6	48	29	60			7	105	450	2,460	9,168
Hamilton			3	20	50	400					200	310	10,680
Hancock	10	100	7	40	40	350			4	80		40	1,800
Hardin	9	250	6	40					3	30	450	3,535	11,730
Harrison	4	50	7	21	48	375	1	10	1	5		755	2,641
Henry	9	900			85	350					50	2,000	13,515
Howard	8	100	12	50	14	50			1	10	200	1,385	9,220
Humboldt					24	400			1	5		1,900	3,080
Ida	10	75	18	35	58	170	12	200			435	1,025	10,165
Iowa					19	190			2	25	85	325	17,200
Jackson			10	40	14	150			4	25		2,000	11,190
Jasper	4	100	5	30	90	1,000	1	10	4	50	320	320	21,450
Jefferson												5,730	15,963
Johnson	14	250	22	140	48	500	15	250	6	50	150	4,025	16,440
Jones	12	42	12	42	43	350			5	30		500	8,052
Keokuk	20	300	23	80	66	300			6	30		1,365	9,215
Kossuth	1	10	4	40	45	200	2	20					12,858
Lee	20	400	31	150	52	600	4	50	9	175	150	2,305	9,630
Linn	18	380	21	25	60	529	2	10	8	65		295	6,864
Louisa	6	175	6	25	50	600	3	30			150	1,455	12,735
Lucas	19	275	25	80	76	630	12	135	15	115			1,935
Lyon	8	125	16	29	25	200	5	100	3	15	150	925	4,345
Madison	10	175			60	800	2	35	3	35	150	1,200	19,345
Mahaska	15	600	12	75	68	900	3	35	4	120	240	1,650	21,520
Marion	15	300	32	50	70	700			16	100	1,400	225	13,090
Marshall	15	150	15	69	58	662	1	7	10	60	115	1,580	7,592
Mills	6	50	39	150	14	200			3	40		1,305	5,145
Mitchell	13	350	23	23	1	15						5,650	18,653
Monona	2	10	10	50	34	250						1,070	8,980
Monroe	10	150	39	169	46	650	2	10	10	100		250	5,510
Montgomery	15	150	28	150							40	1,620	3,880
Muscatine			17	125	32	320	1	4	10	125	400	7,000	20,874
O'Brien	8	100	6	20	26	300			4	60	300	5,320	12,205
Osceola	4	30	5	40								245	5,640
Page	35	100	26	84	54	435	2	40	18	227		2,580	14,026
Palo Alto	6	100	13	25	6	40	2	10	2	20		100	2,560
Plymouth	7	175	58	300	51	700	10	150	5	75	925	3,930	20,705
Pocahontas	15	225	16	165	26	535	1	8	8	70	110	910	4,793
Polk	16	175	10	100	16	80			7	10		1,065	13,980
Pottawattamie	24	38	71	200					6	10	540	1,000	3,288
Poweshiek	21	400	13	50	88	800			9	75	470	960	12,320
Ringgold	15	75	17	215					17	265		450	3,835

SUMMARY TABLE NO 25—PART II—(Continued)

County	Whedded Contracts Estimated		Ship Contracts Estimated		Trags Estimated		Fremoes Estimated		Provs Estimated		Camp Drifts Estimated		Small Trons and Estimated		Total Estimated Value	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
Adair	4	10	50	500	49	500			3	30			750	2,433		
Adams	12	40	20	200	22	150	18	300	5	70			4,000	14,700		
Adelphi	7	200	8	40	31	300	7	275	7	50	200		2,000	17,800		
Adrian											100		500	12,600		
Tama	12	175	35	180	25	800	14	270	10	100			800	5,120		
Taylor	30	150	19	80	78	910	6	120	10	110			300	2,150		
Vernon	27	200	45	250	68	650			11	100			1,000	5,775		
Wapello			21	135	49	700			10	100			1,500	9,775		
Warren	6	150	20	80	50	500			15	75			700	5,105		
Washington	6	100	10	100	50	500			6	50			500	3,000		
Wayne	2	100	15	300	50	500							2,000	15,270		
Webster	2	100	12	10	50	600			7	35			500	2,300		
Wendell	7	200	12	70	35	150			2	10			500	2,300		
Windsor	3	200	14	50	35	200	3	30	3	30			200	1,100		
Woodbury	12	100	12	15	16	700			6	50			1,300	4,865		
Worth														500	5,718	
Wright																
Total	831	\$13,163	1,591	\$7,115	3,785	\$34,068	193	\$4,362	487	\$4,820	16,012	\$	160,544	\$	964,066	

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State Institutions	
Boys' Training School, Eldon	
Hospital and Dispensary, Woodbury	
Iowa State College, Ames	
Juvenile Home, Toledo	
School for the Blind, Ames	
School for the Deaf, Council Bluffs	
School for Female Blind Children, Des Moines	
Soldiers' Home, Marshalltown	
Soldiers' Orphan's Home, Jacksonport	
State Reformatory, Anamosa	
State Hospital, Cherokee	
State Hospital, Clinton	
State Penitentiary, Fort Madison	
State Hospital, Independence	
State Hospital, Mt. Vernon	