

IOWA
MILES OF RURAL SECONDARY ROADS
AS OF
JANUARY 1, 2004

INTRODUCTION

The Office of Transportation Data, in cooperation with the Federal Highway Administration, prepares this secondary road report. The report is used by federal, state, and local agencies and the general public for statistical information on the secondary road system.

Information for this report is derived from data reported by Iowa County Engineers. Their reports of construction which may change the road surface, length, and functional classification are reflected in this report.

The report is in four major sections, State Totals in Miles by Type of Surface, Statistical Summary, County Totals in Miles by Type of Surface and Condition of the Rural Secondary System. All data is current as of January 1, 2004.

This report is available at <http://www.iowadotmaps.com/secmiles>

TABLE OF CONTENTS

Five Year Summary of the Secondary Road System in Iowa	1
Statistical Summary	2
Grading and Surfacing Work Accomplished on the Farm-to-Market System	3
Grading and Surfacing Work Accomplished on the Area Service Secondary System	8
Miles of all Open Rural Secondary Roads in Iowa Classified by System	13
Miles of Rural Primary Roads and Secondary Roads in Iowa Classified by System	18
Miles of Rural Primary and Secondary Roads in Iowa (showing Surfaced and Not Surfaced)	23
Miles of Rural Secondary Roads for All Systems (Area Service and Farm-to-Market) Classified by Surface Type	28
Miles of Rural Secondary Roads on the Farm-to-Market System Classified by Surface Type	33
Miles of Rural Secondary Roads on the Area Service System (Non Farm-to-Market) Classified by Surface Type	38
Percent Surfaced for All Systems on the Secondary Road System	43
Percent Surfaced for the Farm-to-Market System on the Secondary Road System	48
Percent Surfaced for the Area Service System (Non Farm-to-Market) on the Secondary Road System	53

**FIVE YEAR SUMMARY OF THE SECONDARY ROAD SYSTEM IN IOWA
(IN MILES)**

RURAL SECONDARY ROAD SYSTEM	EARTH ROAD					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
JANUARY 1, 2004											
Total Farm-to-Market	11.262	0.000	39.746	37.075	88.083	13,784.974	909.373	14,909.094	29,603.441	29,691.524	29,680.262
Total Non Farm-to-Market	530.708	245.854	4,392.328	11.644	5,180.534	53,098.208	532.090	1,884.610	55,514.908	60,695.442	60,164.734
Total For State	541.970	245.854	4,432.074	48.719	5,268.617	66,883.182	1,441.463	16,793.704	85,118.349	90,386.966	89,844.996
JANUARY 1, 2003											
Total Farm-to-Market	11.136	0.000	28.015	37.935	77.086	13,859.298	929.551	14,779.088	29,567.937	29,645.023	29,633.887
Total Non Farm-to-Market	531.865	254.586	4,414.097	11.644	5,212.192	53,080.660	504.116	1,196.169	54,780.945	59,993.137	59,461.272
Total For State	543.001	254.586	4,442.112	49.579	5,289.278	66,939.958	1,433.667	15,975.257	84,348.882	89,638.160	89,095.159
JANUARY 1, 2002											
Total Farm-to-Market	13.054	0.000	27.551	44.371	84.976	13,936.323	873.829	14,760.034	29,570.186	29,655.162	29,642.108
Total Non Farm-to-Market	526.118	258.884	4,414.733	12.141	5,211.876	53,155.726	484.145	1,169.041	54,808.912	60,020.788	59,494.670
Total For State	539.172	258.884	4,442.284	56.512	5,296.852	67,092.049	1,357.974	15,929.075	84,379.098	89,675.950	89,136.778
JANUARY 1, 2001											
Total Farm-to-Market	14.587	0.000	29.390	44.292	88.269	13,976.550	881.970	14,716.433	29,574.953	29,663.222	29,648.635
Total Non Farm-to-Market	523.845	258.257	4,436.382	13.823	5,232.307	53,192.196	473.890	1,136.541	54,802.627	60,034.934	59,511.089
Total For State	538.432	258.257	4,465.772	58.115	5,320.576	67,168.746	1,355.860	15,852.974	84,377.580	89,698.156	89,159.724
JANUARY 1, 2000											
Total Farm-to-Market	12.263	0.000	25.389	38.536	76.188	14,091.430	834.425	14,655.078	29,580.933	29,657.121	29,644.858
Total Non Farm-to-Market	516.215	255.310	4,426.285	12.065	5,209.875	53,307.153	438.152	1,106.717	54,852.022	60,061.897	59,545.682
Total For State	528.478	255.310	4,451.674	50.601	5,286.063	67,398.583	1,272.577	15,761.795	84,432.955	89,719.018	89,190.540

STATISTICAL SUMMARY

On January 1, 2004, the condition of the Secondary Road System was as follows:

	Farm-to-Market System	Area Service Secondary System
Miles of Unimproved Earth Roads	0.000	245.854
Graded and Drained Earth Roads	39.746	4,392.328
Soil Surfaced	37.075	11.644
Gravel or Stone Surfaced	13,784.974	53,098.208
Bituminous Surfaced, Not Paved	909.373	532.090
Paved	14,909.094	1,884.610
Total Miles of Open Road	29,680.262	60,164.734
Legal Roads Not Open to Traffic	11.262	530.708
Total Miles in System	29,691.524	60,695.442

Comparison of grading and surfacing of Farm-to-Market and Area Service Secondary Roads accomplished in the past five years is as follows:

Year	Miles Graded	Miles Loose Surfaced
Jan. 1, 2000	68.952	84.276
Jan. 1, 2001	45.813	59.368
Jan. 1, 2002	48.983	52.365
Jan. 1, 2003	34.186	45.801
Jan. 1, 2004	20.237	26.874

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Adair	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Adams	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Allamakee	0.000	0.000	0.000	0.000	10.993	0.000	10.993
Appanoose	0.000	0.000	0.000	0.000	3.556	0.000	3.556
Audubon	0.000	0.000	0.000	0.000	7.947	0.000	7.947
Benton	0.000	0.000	0.000	0.000	10.961	0.000	10.961
Black Hawk	0.000	0.000	0.000	0.000	10.961	0.000	10.961
Boone	0.000	0.000	0.000	0.000	0.000	4.113	4.113
Bremer	0.748	0.000	0.000	0.000	0.000	0.000	0.748
Buchanan	0.000	0.000	0.000	0.000	0.000	10.672	10.672
Buena Vista	0.000	0.000	0.000	0.000	23.072	0.000	23.072
Butler	0.000	0.000	0.000	0.000	9.048	0.000	9.048
Calhoun	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Carroll	0.000	0.000	0.496	0.000	10.405	0.000	10.901
Cass	0.000	0.000	0.000	3.804	0.000	0.000	3.804
Cedar	0.000	0.000	0.000	0.000	4.577	0.000	4.577
Cerro Gordo	0.000	0.000	0.000	0.000	8.065	0.000	8.065
Cherokee	0.000	0.000	0.000	0.000	11.527	8.776	20.303
Chickasaw	0.000	0.000	0.000	0.000	9.280	0.000	9.280
Clarke	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Clay	0.000	0.000	0.000	0.062	0.000	0.000	0.062
Clayton	0.000	0.000	0.000	0.000	16.240	0.000	16.240
Clinton	0.000	0.000	0.000	0.000	8.946	0.000	8.946
Crawford	0.000	0.000	0.000	9.632	0.000	0.000	9.632
Dallas	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Davis	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Decatur	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Delaware	0.000	0.000	0.000	0.000	15.155	3.470	18.625
Des Moines	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dickinson	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dubuque	0.000	0.000	1.498	6.302	2.238	4.174	14.212
Emmet	0.000	0.000	0.000	0.000	7.764	0.000	7.764
Fayette	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Floyd	0.000	0.000	0.000	0.000	11.409	0.000	11.409
Franklin	0.000	0.000	0.732	0.000	16.413	0.000	17.145
Fremont	0.000	0.000	0.000	0.000	5.536	0.000	5.536
Greene	0.000	0.000	0.000	0.000	5.412	0.000	5.412
Grundy	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Guthrie	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hamilton	0.000	0.000	0.000	0.000	29.333	0.000	29.333

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Hancock	0.000	0.000	0.000	0.000	15.746	0.000	15.746
Hardin	0.000	0.000	0.000	0.000	8.340	0.000	8.340
Harrison	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Henry	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Howard	0.000	0.000	0.000	0.000	18.574	0.000	18.574
Humboldt	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ida	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Iowa	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jackson	3.903	0.000	0.000	0.000	0.590	1.285	5.778
Jasper	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jefferson	0.000	0.000	0.000	0.000	0.000	5.072	5.072
Johnson	0.000	0.000	0.000	0.000	2.070	0.000	2.070
Jones	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Keokuk	0.000	0.000	0.000	0.000	0.000	1.710	1.710
Kossuth	0.000	0.000	1.001	0.000	11.449	0.000	12.450
Lee	0.000	0.000	2.606	0.596	0.000	2.914	6.116
Linn	0.000	0.000	0.000	1.634	16.657	3.027	21.318
Louisa	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lucas	0.000	0.000	0.000	0.000	5.857	0.000	5.857
Lyon	0.000	0.000	0.000	0.000	1.019	0.000	1.019

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Madison	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mahaska	0.000	0.000	0.568	0.000	2.158	3.419	6.145
Marion	0.000	0.000	0.000	0.000	3.518	1.470	4.988
Marshall	0.000	0.000	0.000	0.000	4.759	0.000	4.759
Mills	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mitchell	0.000	0.000	0.000	0.000	3.649	0.000	3.649
Monona	0.000	0.000	0.000	0.000	0.000	6.206	6.206
Monroe	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Montgomery	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Muscatine	0.000	0.000	0.000	0.000	5.091	0.000	5.091
O'Brien	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Osceola	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Page	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Palo Alto	0.000	0.000	0.000	0.000	5.880	0.000	5.880
Plymouth	0.000	0.000	0.000	0.000	13.059	0.000	13.059
Pocahontas	0.000	0.000	0.000	0.000	0.000	16.427	16.427
Polk	0.000	0.000	0.000	2.642	21.865	0.204	24.711
Pottawattamie	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Poweshiek	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ringgold	0.000	0.000	0.000	0.000	0.000	5.999	5.999

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Sac	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Scott	0.000	0.000	0.000	0.000	6.757	0.000	6.757
Shelby	0.000	0.000	0.392	0.000	0.000	0.000	0.392
Sioux	0.000	0.000	0.000	0.000	17.956	0.000	17.956
Story	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tama	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Taylor	0.000	0.000	0.000	0.000	10.019	0.000	10.019
Union	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Van Buren	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Wapello	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Warren	1.013	0.000	0.000	0.000	0.000	5.041	6.054
Washington	0.000	0.000	0.000	0.000	0.000	12.705	12.705
Wayne	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Webster	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Winnebago	8.945	0.000	0.000	0.000	0.000	0.000	8.945
Winneshiek	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Woodbury	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Worth	0.000	0.000	0.000	0.000	15.710	0.000	15.710
Wright	0.000	0.000	0.000	0.000	14.425	0.000	14.425
TOTAL	14.609	0.000	7.293	24.672	443.986	96.684	587.244

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Adair	0.000	0.000	0.240	0.000	0.000	0.000	0.240
Adams	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Allamakee	0.000	0.000	3.481	0.000	0.827	0.000	4.308
Appanoose	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Audubon	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Benton	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Black Hawk	0.000	0.000	0.485	1.032	0.000	0.000	1.517
Boone	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bremer	0.144	0.000	0.008	0.798	1.076	0.000	2.026
Buchanan	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Buena Vista	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butler	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Calhoun	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Carroll	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cass	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cedar	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cerro Gordo	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cherokee	0.000	0.000	0.237	0.000	0.000	0.000	0.237
Chickasaw	0.000	0.000	0.344	0.000	0.000	0.000	0.344
Clarke	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Clay	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Clayton	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Clinton	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Crawford	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dallas	0.000	0.000	0.000	0.000	0.276	0.000	0.276
Davis	0.510	0.000	0.000	0.000	0.000	0.000	0.510
Decatur	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Delaware	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Des Moines	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dickinson	0.000	0.000	0.000	0.000	0.226	0.000	0.226
Dubuque	0.000	0.000	0.000	9.949	1.579	0.000	11.528
Emmet	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fayette	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Floyd	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Franklin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fremont	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Greene	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Grundy	0.000	0.000	5.620	0.000	0.000	0.000	5.620
Guthrie	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hamilton	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Hancock	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hardin	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Harrison	3.974	0.000	0.000	0.000	0.000	0.000	3.974
Henry	0.000	0.000	0.600	0.000	0.000	0.000	0.600
Howard	0.000	0.000	0.000	1.573	0.000	0.000	1.573
Humboldt	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ida	1.000	0.000	0.000	0.000	0.000	0.000	1.000
Iowa	0.000	0.000	1.195	0.000	0.000	0.000	1.195
Jackson	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jasper	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jefferson	0.000	0.000	0.000	0.000	0.000	0.060	0.060
Johnson	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jones	0.000	0.000	0.777	0.000	0.214	0.630	1.621
Keokuk	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kossuth	0.000	0.000	0.000	0.000	8.200	0.958	9.158
Lee	0.000	0.000	0.871	0.808	16.400	1.916	19.995
Linn	0.000	0.000	0.777	4.101	1.721	0.740	7.339
Louisa	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lucas	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lyon	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Madison	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mahaska	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Marion	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Marshall	0.000	0.000	0.000	0.000	0.050	0.000	0.050
Mills	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mitchell	0.000	0.000	0.000	0.000	5.020	0.000	5.020
Monona	0.000	0.000	1.310	0.000	0.000	0.000	1.310
Monroe	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Montgomery	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Muscatine	0.000	0.000	0.000	0.984	0.000	0.000	0.984
O'Brien	0.000	0.000	0.907	0.000	0.000	0.000	0.907
Osceola	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Page	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Palo Alto	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Plymouth	0.000	0.000	0.000	0.000	6.382	0.000	6.382
Pocahontas	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Polk	0.000	0.000	0.269	8.081	25.645	0.380	34.375
Pottawattamie	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Poweshiek	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Ringgold	0.000	0.000	1.049	0.000	0.000	0.000	1.049

**RURAL SECONDARY ROAD
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Sac	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Scott	0.000	0.000	0.000	1.666	1.200	0.000	2.866
Shelby	0.000	0.000	0.531	0.000	0.000	0.000	0.531
Sioux	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Story	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tama	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Taylor	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Union	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Van Buren	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Wapello	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Warren	0.000	0.000	0.000	0.497	0.000	0.000	0.497
Washington	0.000	0.000	0.880	0.000	0.000	0.000	0.880
Wayne	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Webster	0.000	0.000	0.000	0.000	8.418	0.000	8.418
Winnebago	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Winneshiek	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Woodbury	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Worth	0.000	0.000	0.000	0.000	0.000	1.039	1.039
Wright	0.000	0.000	0.000	0.000	0.000	0.000	0.000
TOTAL	5.628	0.000	19.581	29.489	77.234	5.723	137.655

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Adair	0.000	276.805	276.805	142.214	605.135	747.349
Adams	0.000	188.777	188.777	102.458	429.710	532.168
Allamakee	0.000	299.755	299.755	9.947	558.296	568.243
Appanoose	1.087	269.701	270.788	32.939	446.542	479.481
Audubon	0.000	272.351	272.351	45.221	440.910	486.131
Benton	3.449	353.706	357.155	90.769	786.336	877.105
Black Hawk	0.000	273.714	273.714	5.078	493.443	498.521
Boone	0.000	301.348	301.348	1.883	666.741	668.624
Bremer	0.745	190.497	191.242	4.421	517.328	521.749
Buchanan	0.000	344.608	344.608	24.773	588.025	612.798
Buena Vista	0.000	331.162	331.162	6.457	663.952	670.409
Butler	0.000	290.629	290.629	16.659	645.385	662.044
Calhoun	0.000	298.551	298.551	6.334	675.841	682.175
Carroll	0.000	350.191	350.191	14.956	631.071	646.027
Cass	0.000	257.316	257.316	139.379	501.991	641.370
Cedar	1.765	354.600	356.365	56.416	537.837	594.253
Cerro Gordo	0.000	316.499	316.499	7.605	638.064	645.669
Cherokee	0.000	303.830	303.830	23.226	668.300	691.526
Chickasaw	1.013	232.840	233.853	8.617	598.236	606.853
Clarke	0.000	246.574	246.574	69.745	342.398	412.143

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Clay	0.000	307.586	307.586	5.024	654.772	659.796
Clayton	0.000	402.348	402.348	24.557	639.212	663.769
Clinton	0.000	349.114	349.114	3.904	650.994	654.898
Crawford	2.874	375.616	378.490	198.375	637.800	836.175
Dallas	0.000	248.199	248.199	2.672	627.965	630.637
Davis	0.000	265.762	265.762	65.525	477.411	542.936
Decatur	0.000	304.015	304.015	81.010	381.934	462.944
Delaware	0.000	292.480	292.480	11.797	606.620	618.417
Des Moines	0.000	235.001	235.001	63.978	336.081	400.059
Dickinson	0.000	220.717	220.717	20.592	414.715	435.307
Dubuque	0.000	312.561	312.561	5.204	454.143	459.347
Emmet	0.000	178.762	178.762	4.885	461.354	466.239
Fayette	0.000	344.553	344.553	0.342	792.214	792.556
Floyd	0.000	247.140	247.140	2.022	634.990	637.012
Franklin	0.000	354.140	354.140	11.833	634.711	646.544
Fremont	0.000	256.421	256.421	130.750	392.043	522.793
Greene	0.000	315.468	315.468	4.917	635.360	640.277
Grundy	0.000	277.574	277.574	13.341	545.202	558.543
Guthrie	0.000	287.970	287.970	68.601	589.836	658.437
Hamilton	1.504	314.521	316.025	1.755	612.052	613.807

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Hancock	0.000	313.069	313.069	5.555	692.236	697.791
Hardin	0.000	369.242	369.242	4.532	626.150	630.682
Harrison	0.218	346.279	346.497	138.839	609.197	748.036
Henry	0.000	269.647	269.647	66.878	405.845	472.723
Howard	0.000	242.394	242.394	1.730	509.580	511.310
Humboldt	0.000	200.261	200.261	0.659	512.195	512.854
Ida	0.000	224.298	224.298	51.223	450.454	501.677
Iowa	0.392	355.351	355.743	74.283	499.428	573.711
Jackson	1.417	326.450	327.867	37.393	470.867	508.260
Jasper	0.000	405.069	405.069	49.150	769.196	818.346
Jefferson	1.896	281.329	283.225	97.062	369.100	466.162
Johnson	0.000	306.517	306.517	42.837	580.093	622.930
Jones	1.660	310.400	312.060	27.090	501.839	528.929
Keokuk	0.000	318.419	318.419	100.031	504.357	604.388
Kossuth	0.000	475.661	475.661	34.377	1,143.360	1,177.737
Lee	0.000	275.674	275.674	10.352	430.455	440.807
Linn	0.000	334.091	334.091	17.369	803.572	820.941
Louisa	0.000	238.234	238.234	38.743	306.572	345.315
Lucas	0.000	211.438	211.438	88.714	327.615	416.329
Lyon	0.000	320.822	320.822	3.697	682.668	686.365

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Madison	0.000	320.536	320.536	45.904	538.344	584.248
Mahaska	0.000	298.281	298.281	33.059	637.803	670.862
Marion	0.000	300.956	300.956	42.950	520.794	563.744
Marshall	0.000	309.945	309.945	21.550	600.110	621.660
Mills	0.000	223.124	223.124	75.630	378.970	454.600
Mitchell	0.000	239.232	239.232	4.756	537.197	541.953
Monona	0.000	352.138	352.138	92.724	617.367	710.091
Monroe	0.000	273.175	273.175	43.230	281.733	324.963
Montgomery	0.000	224.022	224.022	108.465	386.990	495.455
Muscatine	0.361	217.901	218.262	17.608	374.769	392.377
O'Brien	0.000	312.497	312.497	57.000	641.000	698.000
Osceola	0.000	243.072	243.072	47.928	431.141	479.069
Page	0.000	320.620	320.620	157.593	437.104	594.697
Palo Alto	0.000	308.295	308.295	0.370	636.276	636.646
Plymouth	0.000	361.639	361.639	43.680	1,018.915	1,062.595
Pocahontas	0.000	305.781	305.781	17.816	680.294	698.110
Polk	0.000	317.095	317.095	1.740	441.643	443.383
Pottawattamie	0.000	541.437	541.437	86.209	852.453	938.662
Poweshiek	3.910	325.463	329.373	117.251	527.084	644.335
Ringgold	0.000	273.400	273.400	206.367	399.495	605.862

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Sac	0.000	327.729	327.729	23.220	670.973	694.193
Scott	0.870	206.035	206.905	11.653	340.112	351.765
Shelby	36.096	257.306	293.402	152.435	504.478	656.913
Sioux	0.951	423.933	424.884	48.452	880.813	929.265
Story	0.000	358.745	358.745	25.802	555.326	581.128
Tama	0.938	358.581	359.519	82.716	711.129	793.845
Taylor	4.716	320.227	324.943	159.062	437.199	596.261
Union	0.000	249.272	249.272	102.759	348.789	451.548
Van Buren	0.000	257.871	257.871	49.926	424.135	474.061
Wapello	0.000	274.045	274.045	36.769	383.372	420.141
Warren	1.013	310.164	311.177	75.431	496.103	571.534
Washington	0.000	362.848	362.848	90.716	460.274	550.990
Wayne	1.013	296.414	297.427	63.274	470.625	533.899
Webster	0.000	392.898	392.898	3.903	777.254	781.157
Winnebago	8.933	193.232	202.165	4.631	510.408	515.039
Winneshiek	0.000	345.676	345.676	4.119	696.810	700.929
Woodbury	0.000	366.778	366.778	68.107	915.686	983.793
Worth	0.000	235.482	235.482	2.201	448.844	451.045
Wright	0.000	229.549	229.549	2.125	733.367	735.492
TOTAL	76.821	29,603.441	29,680.262	4,649.826	55,514.908	60,164.734

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Adair	72.591	276.805	747.349	1,024.154	1,096.745
Adams	40.765	188.777	532.168	720.945	761.710
Allamakee	83.654	299.755	568.243	867.998	951.652
Appanoose	51.641	270.788	479.481	750.269	801.910
Audubon	43.099	272.351	486.131	758.482	801.581
Benton	106.837	357.155	877.105	1,234.260	1,341.097
Black Hawk	91.111	273.714	498.521	772.235	863.346
Boone	87.547	301.348	668.624	969.972	1,057.519
Bremer	86.913	191.242	521.749	712.991	799.904
Buchanan	79.009	344.608	612.798	957.406	1,036.415
Buena Vista	88.384	331.162	670.409	1,001.571	1,089.955
Butler	73.280	290.629	662.044	952.673	1,025.953
Calhoun	77.144	298.551	682.175	980.726	1,057.870
Carroll	64.235	350.191	646.027	996.218	1,060.453
Cass	141.351	257.316	641.370	898.686	1,040.037
Cedar	85.670	356.365	594.253	950.618	1,036.288
Cerro Gordo	73.871	316.499	645.669	962.168	1,036.039
Cherokee	66.617	303.830	691.526	995.356	1,061.973
Chickasaw	72.781	233.853	606.853	840.706	913.487
Clarke	61.102	246.574	412.143	658.717	719.819

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Clay	52.588	307.586	659.796	967.382	1,019.970
Clayton	101.079	402.348	663.769	1,066.117	1,167.196
Clinton	102.093	349.114	654.898	1,004.012	1,106.105
Crawford	95.609	378.490	836.175	1,214.665	1,310.274
Dallas	102.067	248.199	630.637	878.836	980.903
Davis	47.995	265.762	542.936	808.698	856.693
Decatur	77.228	304.015	462.944	766.959	844.187
Delaware	93.323	292.480	618.417	910.897	1,004.220
Des Moines	31.104	235.001	400.059	635.060	666.164
Dickinson	44.380	220.717	435.307	656.024	700.404
Dubuque	109.260	312.561	459.347	771.908	881.168
Emmet	52.629	178.762	466.239	645.001	697.630
Fayette	117.878	344.553	792.556	1,137.109	1,254.987
Floyd	60.265	247.140	637.012	884.152	944.417
Franklin	69.548	354.140	646.544	1,000.684	1,070.232
Fremont	87.099	256.421	522.793	779.214	866.313
Greene	75.929	315.468	640.277	955.745	1,031.674
Grundy	77.829	277.574	558.543	836.117	913.946
Guthrie	78.359	287.970	658.437	946.407	1,024.766
Hamilton	124.309	316.025	613.807	929.832	1,054.141

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Hancock	56.815	313.069	697.791	1,010.860	1,067.675
Hardin	80.493	369.242	630.682	999.924	1,080.417
Harrison	109.424	346.497	748.036	1,094.533	1,203.957
Henry	64.362	269.647	472.723	742.370	806.732
Howard	42.171	242.394	511.310	753.704	795.875
Humboldt	38.865	200.261	512.854	713.115	751.980
Ida	60.384	224.298	501.677	725.975	786.359
Iowa	103.592	355.743	573.711	929.454	1,033.046
Jackson	103.294	327.867	508.260	836.127	939.421
Jasper	126.615	405.069	818.346	1,223.415	1,350.030
Jefferson	41.922	283.225	466.162	749.387	791.309
Johnson	92.299	306.517	622.930	929.447	1,021.746
Jones	100.718	312.060	528.929	840.989	941.707
Keokuk	112.302	318.419	604.388	922.807	1,035.109
Kossuth	109.691	475.661	1,177.737	1,653.398	1,763.089
Lee	102.215	275.674	440.807	716.481	818.696
Linn	89.264	334.091	820.941	1,155.032	1,244.296
Louisa	44.225	238.234	345.315	583.549	627.774
Lucas	59.852	211.438	416.329	627.767	687.619
Lyon	64.774	320.822	686.365	1,007.187	1,071.961

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Madison	50.007	320.536	584.248	904.784	954.791
Mahaska	76.434	298.281	670.862	969.143	1,045.577
Marion	86.538	300.956	563.744	864.700	951.238
Marshall	83.376	309.945	621.660	931.605	1,014.981
Mills	79.171	223.124	454.600	677.724	756.895
Mitchell	50.652	239.232	541.953	781.185	831.837
Monona	108.050	352.138	710.091	1,062.229	1,170.279
Monroe	52.855	273.175	324.963	598.138	650.993
Montgomery	61.516	224.022	495.455	719.477	780.993
Muscatine	88.246	218.262	392.377	610.639	698.885
O'Brien	77.126	312.497	698.000	1,010.497	1,087.623
Osceola	56.850	243.072	479.069	722.141	778.991
Page	66.544	320.620	594.697	915.317	981.861
Palo Alto	45.386	308.295	636.646	944.941	990.327
Plymouth	110.345	361.639	1,062.595	1,424.234	1,534.579
Pocahontas	84.164	305.781	698.110	1,003.891	1,088.055
Polk	111.445	317.095	443.383	760.478	871.923
Pottawattamie	192.053	541.437	938.662	1,480.099	1,672.152
Poweshiek	121.604	329.373	644.335	973.708	1,095.312
Ringgold	63.393	273.400	605.862	879.262	942.655

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Sac	85.229	327.729	694.193	1,021.922	1,107.151
Scott	52.805	206.905	351.765	558.670	611.475
Shelby	76.856	293.402	656.913	950.315	1,027.171
Sioux	105.784	424.884	929.265	1,354.149	1,459.933
Story	115.213	358.745	581.128	939.873	1,055.086
Tama	82.613	359.519	793.845	1,153.364	1,235.977
Taylor	47.733	324.943	596.261	921.204	968.937
Union	53.772	249.272	451.548	700.820	754.592
Van Buren	67.818	257.871	474.061	731.932	799.750
Wapello	52.403	274.045	420.141	694.186	746.589
Warren	106.073	311.177	571.534	882.711	988.784
Washington	96.664	362.848	550.990	913.838	1,010.502
Wayne	52.175	297.427	533.899	831.326	883.501
Webster	94.733	392.898	781.157	1,174.055	1,268.788
Winnebago	40.277	202.165	515.039	717.204	757.481
Winneshiek	89.675	345.676	700.929	1,046.605	1,136.280
Woodbury	110.224	366.778	983.793	1,350.571	1,460.795
Worth	57.781	235.482	451.045	686.527	744.308
Wright	72.334	229.549	735.492	965.041	1,037.375
TOTAL	7,877.367	29,680.262	60,164.734	89,844.996	97,722.363

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Adair	142.214	881.940	1,024.154	72.591	142.214	954.531	1,096.745
Adams	102.458	618.487	720.945	40.765	102.458	659.252	761.710
Allamakee	9.947	858.051	867.998	83.654	9.947	941.705	951.652
Appanoose	34.026	716.243	750.269	51.641	34.026	767.884	801.910
Audubon	45.221	713.261	758.482	43.099	45.221	756.360	801.581
Benton	94.218	1,140.042	1,234.260	106.837	94.218	1,246.879	1,341.097
Black Hawk	5.078	767.157	772.235	91.111	5.078	858.268	863.346
Boone	1.883	968.089	969.972	87.547	1.883	1,055.636	1,057.519
Bremer	5.166	707.825	712.991	86.913	5.166	794.738	799.904
Buchanan	24.773	932.633	957.406	79.009	24.773	1,011.642	1,036.415
Buena Vista	6.457	995.114	1,001.571	88.384	6.457	1,083.498	1,089.955
Butler	16.659	936.014	952.673	73.280	16.659	1,009.294	1,025.953
Calhoun	6.334	974.392	980.726	77.144	6.334	1,051.536	1,057.870
Carroll	14.956	981.262	996.218	64.235	14.956	1,045.497	1,060.453
Cass	139.379	759.307	898.686	141.351	139.379	900.658	1,040.037
Cedar	58.181	892.437	950.618	85.670	58.181	978.107	1,036.288
Cerro Gordo	7.605	954.563	962.168	73.871	7.605	1,028.434	1,036.039
Cherokee	23.226	972.130	995.356	66.617	23.226	1,038.747	1,061.973
Chickasaw	9.630	831.076	840.706	72.781	9.630	903.857	913.487
Clarke	69.745	588.972	658.717	61.102	69.745	650.074	719.819

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Clay	5.024	962.358	967.382	52.588	5.024	1,014.946	1,019.970
Clayton	24.557	1,041.560	1,066.117	101.079	24.557	1,142.639	1,167.196
Clinton	3.904	1,000.108	1,004.012	102.093	3.904	1,102.201	1,106.105
Crawford	201.249	1,013.416	1,214.665	95.609	201.249	1,109.025	1,310.274
Dallas	2.672	876.164	878.836	102.067	2.672	978.231	980.903
Davis	65.525	743.173	808.698	47.995	65.525	791.168	856.693
Decatur	81.010	685.949	766.959	77.228	81.010	763.177	844.187
Delaware	11.797	899.100	910.897	93.323	11.797	992.423	1,004.220
Des Moines	63.978	571.082	635.060	31.104	63.978	602.186	666.164
Dickinson	20.592	635.432	656.024	44.380	20.592	679.812	700.404
Dubuque	5.204	766.704	771.908	109.260	5.204	875.964	881.168
Emmet	4.885	640.116	645.001	52.629	4.885	692.745	697.630
Fayette	0.342	1,136.767	1,137.109	117.878	0.342	1,254.645	1,254.987
Floyd	2.022	882.130	884.152	60.265	2.022	942.395	944.417
Franklin	11.833	988.851	1,000.684	69.548	11.833	1,058.399	1,070.232
Fremont	130.750	648.464	779.214	87.099	130.750	735.563	866.313
Greene	4.917	950.828	955.745	75.929	4.917	1,026.757	1,031.674
Grundy	13.341	822.776	836.117	77.829	13.341	900.605	913.946
Guthrie	68.601	877.806	946.407	78.359	68.601	956.165	1,024.766
Hamilton	3.259	926.573	929.832	124.309	3.259	1,050.882	1,054.141

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Hancock	5.555	1,005.305	1,010.860	56.815	5.555	1,062.120	1,067.675
Hardin	4.532	995.392	999.924	80.493	4.532	1,075.885	1,080.417
Harrison	139.057	955.476	1,094.533	109.424	139.057	1,064.900	1,203.957
Henry	66.878	675.492	742.370	64.362	66.878	739.854	806.732
Howard	1.730	751.974	753.704	42.171	1.730	794.145	795.875
Humboldt	0.659	712.456	713.115	38.865	0.659	751.321	751.980
Ida	51.223	674.752	725.975	60.384	51.223	735.136	786.359
Iowa	74.675	854.779	929.454	103.592	74.675	958.371	1,033.046
Jackson	38.810	797.317	836.127	103.294	38.810	900.611	939.421
Jasper	49.150	1,174.265	1,223.415	126.615	49.150	1,300.880	1,350.030
Jefferson	98.958	650.429	749.387	41.922	98.958	692.351	791.309
Johnson	42.837	886.610	929.447	92.299	42.837	978.909	1,021.746
Jones	28.750	812.239	840.989	100.718	28.750	912.957	941.707
Keokuk	100.031	822.776	922.807	112.302	100.031	935.078	1,035.109
Kossuth	34.377	1,619.021	1,653.398	109.691	34.377	1,728.712	1,763.089
Lee	10.352	706.129	716.481	102.215	10.352	808.344	818.696
Linn	17.369	1,137.663	1,155.032	89.264	17.369	1,226.927	1,244.296
Louisa	38.743	544.806	583.549	44.225	38.743	589.031	627.774
Lucas	88.714	539.053	627.767	59.852	88.714	598.905	687.619
Lyon	3.697	1,003.490	1,007.187	64.774	3.697	1,068.264	1,071.961

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Madison	45.904	858.880	904.784	50.007	45.904	908.887	954.791
Mahaska	33.059	936.084	969.143	76.434	33.059	1,012.518	1,045.577
Marion	42.950	821.750	864.700	86.538	42.950	908.288	951.238
Marshall	21.550	910.055	931.605	83.376	21.550	993.431	1,014.981
Mills	75.630	602.094	677.724	79.171	75.630	681.265	756.895
Mitchell	4.756	776.429	781.185	50.652	4.756	827.081	831.837
Monona	92.724	969.505	1,062.229	108.050	92.724	1,077.555	1,170.279
Monroe	43.230	554.908	598.138	52.855	43.230	607.763	650.993
Montgomery	108.465	611.012	719.477	61.516	108.465	672.528	780.993
Muscatine	17.969	592.670	610.639	88.246	17.969	680.916	698.885
O'Brien	57.000	953.497	1,010.497	77.126	57.000	1,030.623	1,087.623
Osceola	47.928	674.213	722.141	56.850	47.928	731.063	778.991
Page	157.593	757.724	915.317	66.544	157.593	824.268	981.861
Palo Alto	0.370	944.571	944.941	45.386	0.370	989.957	990.327
Plymouth	43.680	1,380.554	1,424.234	110.345	43.680	1,490.899	1,534.579
Pocahontas	17.816	986.075	1,003.891	84.164	17.816	1,070.239	1,088.055
Polk	1.740	758.738	760.478	111.445	1.740	870.183	871.923
Pottawattamie	86.209	1,393.890	1,480.099	192.053	86.209	1,585.943	1,672.152
Poweshiek	121.161	852.547	973.708	121.604	121.161	974.151	1,095.312
Ringgold	206.367	672.895	879.262	63.393	206.367	736.288	942.655

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA
(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Sac	23.220	998.702	1,021.922	85.229	23.220	1,083.931	1,107.151
Scott	12.523	546.147	558.670	52.805	12.523	598.952	611.475
Shelby	188.531	761.784	950.315	76.856	188.531	838.640	1,027.171
Sioux	49.403	1,304.746	1,354.149	105.784	49.403	1,410.530	1,459.933
Story	25.802	914.071	939.873	115.213	25.802	1,029.284	1,055.086
Tama	83.654	1,069.710	1,153.364	82.613	83.654	1,152.323	1,235.977
Taylor	163.778	757.426	921.204	47.733	163.778	805.159	968.937
Union	102.759	598.061	700.820	53.772	102.759	651.833	754.592
Van Buren	49.926	682.006	731.932	67.818	49.926	749.824	799.750
Wapello	36.769	657.417	694.186	52.403	36.769	709.820	746.589
Warren	76.444	806.267	882.711	106.073	76.444	912.340	988.784
Washington	90.716	823.122	913.838	96.664	90.716	919.786	1,010.502
Wayne	64.287	767.039	831.326	52.175	64.287	819.214	883.501
Webster	3.903	1,170.152	1,174.055	94.733	3.903	1,264.885	1,268.788
Winnebago	13.564	703.640	717.204	40.277	13.564	743.917	757.481
Winneshiek	4.119	1,042.486	1,046.605	89.675	4.119	1,132.161	1,136.280
Woodbury	68.107	1,282.464	1,350.571	110.224	68.107	1,392.688	1,460.795
Worth	2.201	684.326	686.527	57.781	2.201	742.107	744.308
Wright	2.125	962.916	965.041	72.334	2.125	1,035.250	1,037.375
TOTAL	4,726.647	85,118.349	89,844.996	7,877.367	4,726.647	92,995.716	97,722.363

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair	2.245	1.541	140.673	0.000	144.459	794.817	8.129	78.994	881.940	1,026.399	1,024.154
Adams	0.921	0.000	102.458	0.000	103.379	515.717	0.112	102.658	618.487	721.866	720.945
Allamakee	12.258	7.710	2.237	0.000	22.205	703.748	0.807	153.496	858.051	880.256	867.998
Appanoose	11.873	0.222	33.804	0.000	45.899	606.207	1.324	108.712	716.243	762.142	750.269
Audubon	2.362	1.082	44.139	0.000	47.583	622.411	4.113	86.737	713.261	760.844	758.482
Benton	3.682	0.000	94.218	0.000	97.900	924.782	7.124	208.136	1,140.042	1,237.942	1,234.260
Black Hawk	0.988	0.721	4.357	0.000	6.066	526.078	25.090	215.989	767.157	773.223	772.235
Boone	4.569	0.000	0.870	1.013	6.452	781.953	2.409	183.727	968.089	974.541	969.972
Bremer	0.746	2.343	2.823	0.000	5.912	571.466	2.378	133.981	707.825	713.737	712.991
Buchanan	0.933	1.022	23.751	0.000	25.706	734.869	1.168	196.596	932.633	958.339	957.406
Buena Vista	3.981	3.707	2.750	0.000	10.438	747.476	2.500	245.138	995.114	1,005.552	1,001.571
Butler	5.638	0.000	16.659	0.000	22.297	736.350	0.497	199.167	936.014	958.311	952.673
Calhoun	0.000	1.501	4.833	0.000	6.334	810.960	2.328	161.104	974.392	980.726	980.726
Carroll	2.473	2.399	12.557	0.000	17.429	799.444	0.466	181.352	981.262	998.691	996.218
Cass	1.129	1.373	138.006	0.000	140.508	652.230	5.943	101.134	759.307	899.815	898.686
Cedar	3.754	2.076	56.105	0.000	61.935	753.952	3.270	135.215	892.437	954.372	950.618
Cerro Gordo	2.939	3.229	4.376	0.000	10.544	697.241	3.207	254.115	954.563	965.107	962.168
Cherokee	5.849	1.412	21.814	0.000	29.075	764.285	0.000	207.845	972.130	1,001.205	995.356
Chickasaw	2.018	4.701	4.929	0.000	11.648	691.719	0.559	138.798	831.076	842.724	840.706
Clarke	3.473	0.062	69.683	0.000	73.218	533.866	5.888	49.218	588.972	662.190	658.717

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay	0.000	2.604	2.420	0.000	5.024	740.250	0.062	222.046	962.358	967.382	967.382
Clayton	13.155	9.902	14.655	0.000	37.712	851.955	7.768	181.837	1,041.560	1,079.272	1,066.117
Clinton	7.150	0.566	3.338	0.000	11.054	786.761	2.012	211.335	1,000.108	1,011.162	1,004.012
Crawford	7.976	2.151	197.168	1.930	209.225	878.139	1.010	134.267	1,013.416	1,222.641	1,214.665
Dallas	9.344	0.000	2.672	0.000	12.016	684.757	3.048	188.359	876.164	888.180	878.836
Davis	4.089	1.100	64.425	0.000	69.614	654.461	0.410	88.302	743.173	812.787	808.698
Decatur	13.484	0.118	80.892	0.000	94.494	519.612	55.654	110.683	685.949	780.443	766.959
Delaware	3.891	4.265	7.532	0.000	15.688	674.520	0.582	223.998	899.100	914.788	910.897
Des Moines	3.209	4.573	59.405	0.000	67.187	451.824	0.031	119.227	571.082	638.269	635.060
Dickinson	5.619	17.559	3.033	0.000	26.211	453.302	9.114	173.016	635.432	661.643	656.024
Dubuque	11.222	2.986	2.218	0.000	16.426	336.442	199.510	230.752	766.704	783.130	771.908
Emmet	0.864	3.033	1.852	0.000	5.749	459.391	0.000	180.725	640.116	645.865	645.001
Fayette	4.625	0.311	0.031	0.000	4.967	909.360	2.269	225.138	1,136.767	1,141.734	1,137.109
Floyd	2.267	1.001	1.021	0.000	4.289	712.527	4.245	165.358	882.130	886.419	884.152
Franklin	3.176	3.108	8.725	0.000	15.009	783.950	0.000	204.901	988.851	1,003.860	1,000.684
Fremont	3.773	1.896	128.854	0.000	134.523	446.193	106.896	95.375	648.464	782.987	779.214
Greene	4.663	1.750	3.167	0.000	9.580	743.800	0.000	207.028	950.828	960.408	955.745
Grundy	0.292	8.249	5.092	0.000	13.633	632.716	1.516	188.544	822.776	836.409	836.117
Guthrie	8.890	1.362	67.239	0.000	77.491	735.474	0.889	141.443	877.806	955.297	946.407
Hamilton	0.745	0.329	2.930	0.000	4.004	717.826	0.000	208.747	926.573	930.577	929.832

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	6.339	4.094	1.461	0.000	11.894	757.405	1.178	246.722	1,005.305	1,017.199	1,010.860
Hardin	3.033	0.590	3.942	0.000	7.565	786.669	3.903	204.820	995.392	1,002.957	999.924
Harrison	18.581	3.785	135.272	0.000	157.638	793.637	59.564	102.275	955.476	1,113.114	1,094.533
Henry	3.586	0.000	66.878	0.000	70.464	551.300	0.982	123.210	675.492	745.956	742.370
Howard	3.671	0.000	1.730	0.000	5.401	637.898	4.224	109.852	751.974	757.375	753.704
Humboldt	0.777	0.149	0.510	0.000	1.436	519.326	0.249	192.881	712.456	713.892	713.115
Ida	7.968	3.524	47.699	0.000	59.191	550.287	0.000	124.465	674.752	733.943	725.975
Iowa	9.000	0.521	74.154	0.000	83.675	704.411	3.680	146.688	854.779	938.454	929.454
Jackson	6.242	2.884	35.926	0.000	45.052	620.592	5.196	171.529	797.317	842.369	836.127
Jasper	7.111	1.243	47.907	0.000	56.261	964.767	17.710	191.788	1,174.265	1,230.526	1,223.415
Jefferson	0.000	0.267	98.691	0.000	98.958	512.719	11.489	126.221	650.429	749.387	749.387
Johnson	1.907	3.233	39.604	0.000	44.744	592.842	121.937	171.831	886.610	931.354	929.447
Jones	4.134	1.522	27.228	0.000	32.884	658.690	2.458	151.091	812.239	845.123	840.989
Keokuk	6.208	3.753	96.278	0.000	106.239	732.102	0.578	90.096	822.776	929.015	922.807
Kossuth	1.482	17.139	17.238	0.000	35.859	1,117.732	0.162	501.127	1,619.021	1,654.880	1,653.398
Lee	1.989	3.127	7.225	0.000	12.341	529.219	27.514	149.396	706.129	718.470	716.481
Linn	13.035	0.225	17.144	0.000	30.404	786.418	87.382	263.863	1,137.663	1,168.067	1,155.032
Louisa	2.331	0.622	38.121	0.000	41.074	411.371	6.004	127.431	544.806	585.880	583.549
Lucas	3.785	0.000	88.714	0.000	92.499	488.266	1.081	49.706	539.053	631.552	627.767
Lyon	1.654	2.349	1.348	0.000	5.351	754.974	0.491	248.025	1,003.490	1,008.841	1,007.187

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison	7.952	7.564	38.340	0.000	53.856	748.964	3.574	106.342	858.880	912.736	904.784
Mahaska	15.155	5.086	27.973	0.000	48.214	814.245	0.000	121.839	936.084	984.298	969.143
Marion	8.170	0.559	42.304	0.087	51.120	657.618	33.053	131.079	821.750	872.870	864.700
Marshall	4.981	0.677	20.873	0.000	26.531	715.501	1.557	192.997	910.055	936.586	931.605
Mills	0.450	0.938	74.692	0.000	76.080	444.215	78.013	79.866	602.094	678.174	677.724
Mitchell	2.695	0.958	3.798	0.000	7.451	587.638	3.187	185.604	776.429	783.880	781.185
Monona	7.852	10.685	82.039	0.000	100.576	783.334	1.857	184.314	969.505	1,070.081	1,062.229
Monroe	21.190	0.320	42.910	0.000	64.420	496.275	4.027	54.606	554.908	619.328	598.138
Montgomery	0.577	0.342	108.123	0.000	109.042	503.679	1.706	105.627	611.012	720.054	719.477
Muscatine	2.279	2.861	15.108	0.000	20.248	413.471	43.993	135.206	592.670	612.918	610.639
O'Brien	6.731	0.136	56.864	0.000	63.731	737.176	0.000	216.321	953.497	1,017.228	1,010.497
Osceola	0.298	0.994	46.934	0.000	48.226	478.101	0.000	196.112	674.213	722.439	722.141
Page	3.822	2.517	155.076	0.000	161.415	551.069	108.541	98.114	757.724	919.139	915.317
Palo Alto	3.429	0.249	0.121	0.000	3.799	769.840	0.590	174.141	944.571	948.370	944.941
Plymouth	3.039	4.521	39.159	0.000	46.719	1,021.807	0.848	357.899	1,380.554	1,427.273	1,424.234
Pocahontas	0.293	3.523	14.293	0.000	18.109	794.698	0.000	191.377	986.075	1,004.184	1,003.891
Polk	8.026	0.715	1.025	0.000	9.766	217.438	93.695	447.605	758.738	768.504	760.478
Pottawattamie	16.646	0.864	85.345	0.000	102.855	1,143.533	40.775	209.582	1,393.890	1,496.745	1,480.099
Poweshiek	5.887	2.623	118.538	0.000	127.048	739.667	10.698	102.182	852.547	979.595	973.708
Ringgold	19.935	9.546	196.821	0.000	226.302	525.749	68.109	79.037	672.895	899.197	879.262

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	LEGAL NOT OPEN TO TRAFFIC	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
		UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac	1.660	0.501	22.719	0.000	24.880	800.192	0.983	197.527	998.702	1,023.582	1,021.922
Scott	1.528	5.954	6.569	0.000	14.051	348.648	4.952	192.547	546.147	560.198	558.670
Shelby	9.675	0.000	142.842	45.689	198.206	629.041	19.701	113.042	761.784	959.990	950.315
Sioux	11.394	4.759	44.644	0.000	60.797	1,035.179	0.093	269.474	1,304.746	1,365.543	1,354.149
Story	0.180	0.659	25.143	0.000	25.982	706.207	9.145	198.719	914.071	940.053	939.873
Tama	8.076	2.772	80.882	0.000	91.730	896.639	0.957	172.114	1,069.710	1,161.440	1,153.364
Taylor	5.850	5.407	158.371	0.000	169.628	643.081	8.745	105.600	757.426	927.054	921.204
Union	2.610	4.450	98.309	0.000	105.369	501.849	27.814	68.398	598.061	703.430	700.820
Van Buren	12.891	1.517	48.409	0.000	62.817	587.814	3.258	90.934	682.006	744.823	731.932
Wapello	8.569	0.000	36.769	0.000	45.338	524.165	7.505	125.747	657.417	702.755	694.186
Warren	1.401	0.000	76.444	0.000	77.845	644.739	3.501	158.027	806.267	884.112	882.711
Washington	14.328	2.432	88.284	0.000	105.044	669.327	1.135	152.660	823.122	928.166	913.838
Wayne	5.491	0.373	63.914	0.000	69.778	658.798	2.653	105.588	767.039	836.817	831.326
Webster	3.276	0.000	3.903	0.000	7.179	872.080	7.847	290.225	1,170.152	1,177.331	1,174.055
Winnebago	2.037	4.631	8.933	0.000	15.601	567.422	0.162	136.056	703.640	719.241	717.204
Winneshiek	9.515	1.421	2.698	0.000	13.634	818.312	16.963	207.211	1,042.486	1,056.120	1,046.605
Woodbury	13.589	2.084	66.023	0.000	81.696	951.724	0.064	330.676	1,282.464	1,364.160	1,350.571
Worth	6.792	0.709	1.492	0.000	8.993	475.059	3.170	206.097	684.326	693.319	686.527
Wright	0.603	1.516	0.609	0.000	2.728	795.432	0.482	167.002	962.916	965.644	965.041
TOTAL	541.970	245.854	4,432.074	48.719	5,268.617	66,883.182	1,441.463	16,793.704	85,118.349	90,386.966	89,844.996

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Adair	0.180				0.180	194.977	4.004	77.824	276.805	276.985	276.805
Adams					0.000	96.272		92.505	188.777	188.777	188.777
Allamakee					0.000	156.712	0.118	142.925	299.755	299.755	299.755
Appanoose			1.087		1.087	190.253	0.249	79.199	269.701	270.788	270.788
Audubon					0.000	185.251	1.755	85.345	272.351	272.351	272.351
Benton	0.500		3.449		3.949	173.867	4.738	175.101	353.706	357.655	357.155
Black Hawk	0.031				0.031	59.045	8.881	205.788	273.714	273.745	273.714
Boone					0.000	126.336	1.143	173.869	301.348	301.348	301.348
Bremer			0.745		0.745	63.229		127.268	190.497	191.242	191.242
Buchanan					0.000	153.654	0.727	190.227	344.608	344.608	344.608
Buena Vista					0.000	92.626	0.989	237.547	331.162	331.162	331.162
Butler					0.000	97.170		193.459	290.629	290.629	290.629
Calhoun					0.000	142.860	0.249	155.442	298.551	298.551	298.551
Carroll					0.000	187.696	0.398	162.097	350.191	350.191	350.191
Cass					0.000	159.480	0.677	97.159	257.316	257.316	257.316
Cedar			1.765		1.765	232.385	0.379	121.836	354.600	356.365	356.365
Cerro Gordo					0.000	103.044		213.455	316.499	316.499	316.499
Cherokee	1.585				1.585	103.762		200.068	303.830	305.415	303.830
Chickasaw			1.013		1.013	98.965		133.875	232.840	233.853	233.853
Clarke					0.000	192.950	4.406	49.218	246.574	246.574	246.574

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Clay					0.000	96.686	0.062	210.838	307.586	307.586	307.586
Clayton					0.000	231.103	1.934	169.311	402.348	402.348	402.348
Clinton					0.000	163.989	0.236	184.889	349.114	349.114	349.114
Crawford			1.457	1.417	2.874	245.357	0.131	130.128	375.616	378.490	378.490
Dallas					0.000	86.351	0.497	161.351	248.199	248.199	248.199
Davis					0.000	191.445	0.410	73.907	265.762	265.762	265.762
Decatur					0.000	171.200	40.487	92.328	304.015	304.015	304.015
Delaware					0.000	87.562		204.918	292.480	292.480	292.480
Des Moines	0.301				0.301	156.456		78.545	235.001	235.302	235.001
Dickinson					0.000	87.187	1.972	131.558	220.717	220.717	220.717
Dubuque	1.252				1.252	40.015	89.774	182.772	312.561	313.813	312.561
Emmet					0.000	11.033		167.729	178.762	178.762	178.762
Fayette	0.056				0.056	130.649	0.131	213.773	344.553	344.609	344.553
Floyd					0.000	108.938	1.784	136.418	247.140	247.140	247.140
Franklin					0.000	166.183		187.957	354.140	354.140	354.140
Fremont					0.000	95.575	103.944	56.902	256.421	256.421	256.421
Greene					0.000	109.353		206.115	315.468	315.468	315.468
Grundy					0.000	94.310	1.162	182.102	277.574	277.574	277.574
Guthrie	0.211				0.211	173.325	0.143	114.502	287.970	288.181	287.970
Hamilton			1.504		1.504	130.371		184.150	314.521	316.025	316.025

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Hancock	0.529				0.529	75.813	0.329	236.927	313.069	313.598	313.069
Hardin					0.000	194.731	1.752	172.759	369.242	369.242	369.242
Harrison			0.218		0.218	206.374	52.624	87.281	346.279	346.497	346.497
Henry	0.619				0.619	160.826	0.261	108.560	269.647	270.266	269.647
Howard					0.000	132.526	2.030	107.838	242.394	242.394	242.394
Humboldt					0.000	20.529		179.732	200.261	200.261	200.261
Ida					0.000	105.182		119.116	224.298	224.298	224.298
Iowa			0.392		0.392	218.213	3.136	134.002	355.351	355.743	355.743
Jackson	0.249		1.417		1.666	174.493	1.274	150.683	326.450	328.116	327.867
Jasper					0.000	225.796	2.803	176.470	405.069	405.069	405.069
Jefferson			1.896		1.896	159.249	8.711	113.369	281.329	283.225	283.225
Johnson					0.000	78.146	91.956	136.415	306.517	306.517	306.517
Jones			1.660		1.660	168.436	0.480	141.484	310.400	312.060	312.060
Keokuk	1.521				1.521	230.672		87.747	318.419	319.940	318.419
Kossuth					0.000	67.628		408.033	475.661	475.661	475.661
Lee					0.000	144.553	13.635	117.486	275.674	275.674	275.674
Linn	1.000				1.000	87.068	48.100	198.923	334.091	335.091	334.091
Louisa					0.000	129.292		108.942	238.234	238.234	238.234
Lucas					0.000	163.221		48.217	211.438	211.438	211.438
Lyon					0.000	89.106	0.491	231.225	320.822	320.822	320.822

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Madison					0.000	213.349	3.574	103.613	320.536	320.536	320.536
Mahaska	0.045				0.045	203.600		94.681	298.281	298.326	298.281
Marion	0.068				0.068	190.794	9.305	100.857	300.956	301.024	300.956
Marshall	0.012				0.012	129.478	0.249	180.218	309.945	309.957	309.945
Mills					0.000	97.901	73.205	52.018	223.124	223.124	223.124
Mitchell					0.000	63.952		175.280	239.232	239.232	239.232
Monona					0.000	168.810	0.820	182.508	352.138	352.138	352.138
Monroe						225.984	3.667	43.524	273.175	273.175	273.175
Montgomery					0.000	121.081	1.575	101.366	224.022	224.022	224.022
Muscatine	1.210		0.361		1.571	79.954	22.546	115.401	217.901	219.472	218.262
O'Brien					0.000	100.099		212.398	312.497	312.497	312.497
Osceola					0.000	58.512		184.560	243.072	243.072	243.072
Page					0.000	120.548	105.111	94.961	320.620	320.620	320.620
Palo Alto					0.000	142.700	0.037	165.558	308.295	308.295	308.295
Plymouth					0.000	21.527		340.112	361.639	361.639	361.639
Pocahontas					0.000	122.241		183.540	305.781	305.781	305.781
Polk					0.000	35.456	35.525	246.114	317.095	317.095	317.095
Pottawattamie	1.001				1.001	383.806	15.692	141.939	541.437	542.438	541.437
Poweshiek			3.910		3.910	223.341	5.360	96.762	325.463	329.373	329.373
Ringgold					0.000	148.543	53.465	71.392	273.400	273.400	273.400

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Sac					0.000	135.510	0.522	191.697	327.729	327.729	327.729
Scott			0.870		0.870	61.649	0.939	143.447	206.035	206.905	206.905
Shelby			0.438	35.658	36.096	125.932	19.701	111.673	257.306	293.402	293.402
Sioux			0.951		0.951	164.686		259.247	423.933	424.884	424.884
Story					0.000	171.234	6.973	180.538	358.745	358.745	358.745
Tama			0.938		0.938	193.298	0.249	165.034	358.581	359.519	359.519
Taylor	0.050		4.716		4.766	230.475	8.254	81.498	320.227	324.993	324.943
Union					0.000	167.290	22.320	59.662	249.272	249.272	249.272
Van Buren	0.315				0.315	173.223	2.915	81.733	257.871	258.186	257.871
Wapello					0.000	154.113	6.828	113.104	274.045	274.045	274.045
Warren			1.013		1.013	179.843	1.418	128.903	310.164	311.177	311.177
Washington					0.000	214.005	0.255	148.588	362.848	362.848	362.848
Wayne			1.013		1.013	203.478		92.936	296.414	297.427	297.427
Webster					0.000	130.046		262.852	392.898	392.898	392.898
Winnebago	0.527		8.933		9.460	59.217		134.015	193.232	202.692	202.165
Winneshiek					0.000	139.694	9.906	196.076	345.676	345.676	345.676
Woodbury					0.000	84.292		282.486	366.778	366.778	366.778
Worth					0.000	60.890		174.592	235.482	235.482	235.482
Wright					0.000	64.947		164.602	229.549	229.549	229.549
TOTAL	11.262	0.000	39.746	37.075	88.083	13,784.974	909.373	14,909.094	29,603.441	29,691.524	29,680.262

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Adair	2.065	1.541	140.673		144.279	599.840	4.125	1.170	605.135	749.414	747.349
Adams	0.921		102.458		103.379	419.445	0.112	10.153	429.710	533.089	532.168
Allamakee	12.258	7.710	2.237		22.205	547.036	0.689	10.571	558.296	580.501	568.243
Appanoose	11.873	0.222	32.717		44.812	415.954	1.075	29.513	446.542	491.354	479.481
Audubon	2.362	1.082	44.139		47.583	437.160	2.358	1.392	440.910	488.493	486.131
Benton	3.182		90.769		93.951	750.915	2.386	33.035	786.336	880.287	877.105
Black Hawk	0.957	0.721	4.357		6.035	467.033	16.209	10.201	493.443	499.478	498.521
Boone	4.569		0.870	1.013	6.452	655.617	1.266	9.858	666.741	673.193	668.624
Bremer	0.746	2.343	2.078		5.167	508.237	2.378	6.713	517.328	522.495	521.749
Buchanan	0.933	1.022	23.751		25.706	581.215	0.441	6.369	588.025	613.731	612.798
Buena Vista	3.981	3.707	2.750		10.438	654.850	1.511	7.591	663.952	674.390	670.409
Butler	5.638		16.659		22.297	639.180	0.497	5.708	645.385	667.682	662.044
Callhoun		1.501	4.833		6.334	668.100	2.079	5.662	675.841	682.175	682.175
Carroll	2.473	2.399	12.557		17.429	611.748	0.068	19.255	631.071	648.500	646.027
Cass	1.129	1.373	138.006		140.508	492.750	5.266	3.975	501.991	642.499	641.370
Cedar	3.754	2.076	54.340		60.170	521.567	2.891	13.379	537.837	598.007	594.253
Cerro Gordo	2.939	3.229	4.376		10.544	594.197	3.207	40.660	638.064	648.608	645.669
Cherokee	4.264	1.412	21.814		27.490	660.523		7.777	668.300	695.790	691.526
Chickasaw	2.018	4.701	3.916		10.635	592.754	0.559	4.923	598.236	608.871	606.853
Clarke	3.473	0.062	69.683		73.218	340.916	1.482		342.398	415.616	412.143

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Clay		2.604	2.420		5.024	643.564		11.208	654.772	659.796	659.796
Clayton	13.155	9.902	14.655		37.712	620.852	5.834	12.526	639.212	676.924	663.769
Clinton	7.150	0.566	3.338		11.054	622.772	1.776	26.446	650.994	662.048	654.898
Crawford	7.976	2.151	195.711	0.513	206.351	632.782	0.879	4.139	637.800	844.151	836.175
Dallas	9.344		2.672		12.016	598.406	2.551	27.008	627.965	639.981	630.637
Davis	4.089	1.100	64.425		69.614	463.016		14.395	477.411	547.025	542.936
Decatur	13.484	0.118	80.892		94.494	348.412	15.167	18.355	381.934	476.428	462.944
Delaware	3.891	4.265	7.532		15.688	586.958	0.582	19.080	606.620	622.308	618.417
Des Moines	2.908	4.573	59.405		66.886	295.368	0.031	40.682	336.081	402.967	400.059
Dickinson	5.619	17.559	3.033		26.211	366.115	7.142	41.458	414.715	440.926	435.307
Dubuque	9.970	2.986	2.218		15.174	296.427	109.736	47.980	454.143	469.317	459.347
Emmet	0.864	3.033	1.852		5.749	448.358		12.996	461.354	467.103	466.239
Fayette	4.569	0.311	0.031		4.911	778.711	2.138	11.365	792.214	797.125	792.556
Floyd	2.267	1.001	1.021		4.289	603.589	2.461	28.940	634.990	639.279	637.012
Franklin	3.176	3.108	8.725		15.009	617.767		16.944	634.711	649.720	646.544
Fremont	3.773	1.896	128.854		134.523	350.618	2.952	38.473	392.043	526.566	522.793
Greene	4.663	1.750	3.167		9.580	634.447		0.913	635.360	644.940	640.277
Grundy	0.292	8.249	5.092		13.633	538.406	0.354	6.442	545.202	558.835	558.543
Guthrie	8.679	1.362	67.239		77.280	562.149	0.746	26.941	589.836	667.116	658.437
Hamilton	0.745	0.329	1.426		2.500	587.455		24.597	612.052	614.552	613.807

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Hancock	5.810	4.094	1.461		11.365	681.592	0.849	9.795	692.236	703.601	697.791
Hardin	3.033	0.590	3.942		7.565	591.938	2.151	32.061	626.150	633.715	630.682
Harrison	18.581	3.785	135.054		157.420	587.263	6.940	14.994	609.197	766.617	748.036
Henry	2.967		66.878		69.845	390.474	0.721	14.650	405.845	475.690	472.723
Howard	3.671		1.730		5.401	505.372	2.194	2.014	509.580	514.981	511.310
Humboldt	0.777	0.149	0.510		1.436	498.797	0.249	13.149	512.195	513.631	512.854
Ida	7.968	3.524	47.699		59.191	445.105		5.349	450.454	509.645	501.677
Iowa	9.000	0.521	73.762		83.283	486.198	0.544	12.686	499.428	582.711	573.711
Jackson	5.993	2.884	34.509		43.386	446.099	3.922	20.846	470.867	514.253	508.260
Jasper	7.111	1.243	47.907		56.261	738.971	14.907	15.318	769.196	825.457	818.346
Jefferson		0.267	96.795		97.062	353.470	2.778	12.852	369.100	466.162	466.162
Johnson	1.907	3.233	39.604		44.744	514.696	29.981	35.416	580.093	624.837	622.930
Jones	4.134	1.522	25.568		31.224	490.254	1.978	9.607	501.839	533.063	528.929
Keokuk	4.687	3.753	96.278		104.718	501.430	0.578	2.349	504.357	609.075	604.388
Kossuth	1.482	17.139	17.238		35.859	1,050.104	0.162	93.094	1,143.360	1,179.219	1,177.737
Lee	1.989	3.127	7.225		12.341	384.666	13.879	31.910	430.455	442.796	440.807
Linn	12.035	0.225	17.144		29.404	699.350	39.282	64.940	803.572	832.976	820.941
Louisa	2.331	0.622	38.121		41.074	282.079	6.004	18.489	306.572	347.646	345.315
Lucas	3.785		88.714		92.499	325.045	1.081	1.489	327.615	420.114	416.329
Lyon	1.654	2.349	1.348		5.351	665.868		16.800	682.668	688.019	686.365

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS				SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS	
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED			TOTAL SURFACED
Madison	7.952	7.564	38.340		53.856	535.615		2.729	538.344	592.200	584.248
Mahaska	15.110	5.086	27.973		48.169	610.645		27.158	637.803	685.972	670.862
Marion	8.102	0.559	42.304	0.087	51.052	466.824	23.748	30.222	520.794	571.846	563.744
Marshall	4.969	0.677	20.873		26.519	586.023	1.308	12.779	600.110	626.629	621.660
Mills	0.450	0.938	74.692		76.080	346.314	4.808	27.848	378.970	455.050	454.600
Mitchell	2.695	0.958	3.798		7.451	523.686	3.187	10.324	537.197	544.648	541.953
Monona	7.852	10.685	82.039		100.576	614.524	1.037	1.806	617.367	717.943	710.091
Monroe	21.190	0.320	42.910		64.420	270.291	0.360	11.082	281.733	346.153	324.963
Montgomery	0.577	0.342	108.123		109.042	382.598	0.131	4.261	386.990	496.032	495.455
Muscatine	1.069	2.861	14.747		18.677	333.517	21.447	19.805	374.769	393.446	392.377
O'Brien	6.731	0.136	56.864		63.731	637.077		3.923	641.000	704.731	698.000
Osceola	0.298	0.994	46.934		48.226	419.589		11.552	431.141	479.367	479.069
Page	3.822	2.517	155.076		161.415	430.521	3.430	3.153	437.104	598.519	594.697
Palo Alto	3.429	0.249	0.121		3.799	627.140	0.553	8.583	636.276	640.075	636.646
Plymouth	3.039	4.521	39.159		46.719	1,000.280	0.848	17.787	1,018.915	1,065.634	1,062.595
Pocahontas	0.293	3.523	14.293		18.109	672.457		7.837	680.294	698.403	698.110
Polk	8.026	0.715	1.025		9.766	181.982	58.170	201.491	441.643	451.409	443.383
Pottawattamie	15.645	0.864	85.345		101.854	759.727	25.083	67.643	852.453	954.307	938.662
Poweshiek	5.887	2.623	114.628		123.138	516.326	5.338	5.420	527.084	650.222	644.335
Ringgold	19.935	9.546	196.821		226.302	377.206	14.644	7.645	399.495	625.797	605.862

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac	1.660	0.501	22.719		24.880	664.682	0.461	5.830	670.973	695.853	694.193
Scott	1.528	5.954	5.699		13.181	286.999	4.013	49.100	340.112	353.293	351.765
Shelby	9.675		142.404	10.031	162.110	503.109		1.369	504.478	666.588	656.913
Sioux	11.394	4.759	43.693		59.846	870.493	0.093	10.227	880.813	940.659	929.265
Story	0.180	0.659	25.143		25.982	534.973	2.172	18.181	555.326	581.308	581.128
Tama	8.076	2.772	79.944		90.792	703.341	0.708	7.080	711.129	801.921	793.845
Taylor	5.800	5.407	153.655		164.862	412.606	0.491	24.102	437.199	602.061	596.261
Union	2.610	4.450	98.309		105.369	334.559	5.494	8.736	348.789	454.158	451.548
Van Buren	12.576	1.517	48.409		62.502	414.591	0.343	9.201	424.135	486.637	474.061
Wapello	8.569		36.769		45.338	370.052	0.677	12.643	383.372	428.710	420.141
Warren	1.401		75.431		76.832	464.896	2.083	29.124	496.103	572.935	571.534
Washington	14.328	2.432	88.284		105.044	455.322	0.880	4.072	460.274	565.318	550.990
Wayne	5.491	0.373	62.901		68.765	455.320	2.653	12.652	470.625	539.390	533.899
Webster	3.276		3.903		7.179	742.034	7.847	27.373	777.254	784.433	781.157
Winnebago	1.510	4.631			6.141	508.205	0.162	2.041	510.408	516.549	515.039
Winneshek	9.515	1.421	2.698		13.634	678.618	7.057	11.135	696.810	710.444	700.929
Woodbury	13.589	2.084	66.023		81.696	867.432	0.064	48.190	915.686	997.382	983.793
Worth	6.792	0.709	1.492		8.993	414.169	3.170	31.505	448.844	457.837	451.045
Wright	0.603	1.516	0.609		2.728	730.485	0.482	2.400	733.367	736.095	735.492
TOTAL	530.708	245.854	4,392.328	11.644	5,180.534	53,098.208	532.090	1,884.610	55,514.908	60,695.442	60,164.734

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	1,026.399	881.940	144.459	85.93
Adams	721.866	618.487	103.379	85.68
Allamakee	880.256	858.051	22.205	97.48
Appanoose	762.142	716.243	45.899	93.98
Audubon	760.844	713.261	47.583	93.75
Benton	1,237.942	1,140.042	97.900	92.09
Black Hawk	773.223	767.157	6.066	99.22
Boone	974.541	968.089	6.452	99.34
Bremer	713.737	707.825	5.912	99.17
Buchanan	958.339	932.633	25.706	97.32
Buena Vista	1,005.552	995.114	10.438	98.96
Butler	958.311	936.014	22.297	97.67
Calhoun	980.726	974.392	6.334	99.35
Carroll	998.691	981.262	17.429	98.25
Cass	899.815	759.307	140.508	84.38
Cedar	954.372	892.437	61.935	93.51
Cerro Gordo	965.107	954.563	10.544	98.91
Cherokee	1,001.205	972.130	29.075	97.10
Chickasaw	842.724	831.076	11.648	98.62
Clarke	662.190	588.972	73.218	88.94

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	967.382	962.358	5.024	99.48
Clayton	1,079.272	1,041.560	37.712	96.51
Clinton	1,011.162	1,000.108	11.054	98.91
Crawford	1,222.641	1,013.416	209.225	82.89
Dallas	888.180	876.164	12.016	98.65
Davis	812.787	743.173	69.614	91.44
Decatur	780.443	685.949	94.494	87.89
Delaware	914.788	899.100	15.688	98.29
Des Moines	638.269	571.082	67.187	89.47
Dickinson	661.643	635.432	26.211	96.04
Dubuque	783.130	766.704	16.426	97.90
Emmet	645.865	640.116	5.749	99.11
Fayette	1,141.734	1,136.767	4.967	99.56
Floyd	886.419	882.130	4.289	99.52
Franklin	1,003.860	988.851	15.009	98.50
Fremont	782.987	648.464	134.523	82.82
Greene	960.408	950.828	9.580	99.00
Grundy	836.409	822.776	13.633	98.37
Guthrie	955.297	877.806	77.491	91.89
Hamilton	930.577	926.573	4.004	99.57

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	1,017.199	1,005.305	11.894	98.83
Hardin	1,002.957	995.392	7.565	99.25
Harrison	1,113.114	955.476	157.638	85.84
Henry	745.956	675.492	70.464	90.55
Howard	757.375	751.974	5.401	99.29
Humboldt	713.892	712.456	1.436	99.80
Ida	733.943	674.752	59.191	91.94
Iowa	938.454	854.779	83.675	91.08
Jackson	842.369	797.317	45.052	94.65
Jasper	1,230.526	1,174.265	56.261	95.43
Jefferson	749.387	650.429	98.958	86.79
Johnson	931.354	886.610	44.744	95.20
Jones	845.123	812.239	32.884	96.11
Keokuk	929.015	822.776	106.239	88.56
Kossuth	1,654.880	1,619.021	35.859	97.83
Lee	718.470	706.129	12.341	98.28
Linn	1,168.067	1,137.663	30.404	97.40
Louisa	585.880	544.806	41.074	92.99
Lucas	631.552	539.053	92.499	85.35
Lyon	1,008.841	1,003.490	5.351	99.47

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	912.736	858.880	53.856	94.10
Mahaska	984.298	936.084	48.214	95.10
Marion	872.870	821.750	51.120	94.14
Marshall	936.586	910.055	26.531	97.17
Mills	678.174	602.094	76.080	88.78
Mitchell	783.880	776.429	7.451	99.05
Monona	1,070.081	969.505	100.576	90.60
Monroe	619.328	554.908	64.420	89.60
Montgomery	720.054	611.012	109.042	84.86
Muscatine	612.918	592.670	20.248	96.70
O'Brien	1,017.228	953.497	63.731	93.73
Osceola	722.439	674.213	48.226	93.32
Page	919.139	757.724	161.415	82.44
Palo Alto	948.370	944.571	3.799	99.60
Plymouth	1,427.273	1,380.554	46.719	96.73
Pocahontas	1,004.184	986.075	18.109	98.20
Polk	768.504	758.738	9.766	98.73
Pottawattamie	1,496.745	1,393.890	102.855	93.13
Poweshiek	979.595	852.547	127.048	87.03
Ringgold	899.197	672.895	226.302	74.83

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	1,023.582	998.702	24.880	97.57
Scott	560.198	546.147	14.051	97.49
Shelby	959.990	761.784	198.206	79.35
Sioux	1,365.543	1,304.746	60.797	95.55
Story	940.053	914.071	25.982	97.24
Tama	1,161.440	1,069.710	91.730	92.10
Taylor	927.054	757.426	169.628	81.70
Union	703.430	598.061	105.369	85.02
Van Buren	744.823	682.006	62.817	91.57
Wapello	702.755	657.417	45.338	93.55
Warren	884.112	806.267	77.845	91.20
Washington	928.166	823.122	105.044	88.68
Wayne	836.817	767.039	69.778	91.66
Webster	1,177.331	1,170.152	7.179	99.39
Winnebago	719.241	703.640	15.601	97.83
Winneshiek	1,056.120	1,042.486	13.634	98.71
Woodbury	1,364.160	1,282.464	81.696	94.01
Worth	693.319	684.326	8.993	98.70
Wright	965.644	962.916	2.728	99.72
TOTAL	90,386.966	85,118.349	5,268.617	94.17

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	276.985	276.805	0.180	99.94
Adams	188.777	188.777	0.000	100.00
Allamakee	299.755	299.755	0.000	100.00
Appanoose	270.788	269.701	1.087	99.60
Audubon	272.351	272.351	0.000	100.00
Benton	357.655	353.706	3.949	98.90
Black Hawk	273.745	273.714	0.031	99.99
Boone	301.348	301.348	0.000	100.00
Bremer	191.242	190.497	0.745	99.61
Buchanan	344.608	344.608	0.000	100.00
Buena Vista	331.162	331.162	0.000	100.00
Butler	290.629	290.629	0.000	100.00
Calhoun	298.551	298.551	0.000	100.00
Carroll	350.191	350.191	0.000	100.00
Cass	257.316	257.316	0.000	100.00
Cedar	356.365	354.600	1.765	99.50
Cerro Gordo	316.499	316.499	0.000	100.00
Cherokee	305.415	303.830	1.585	99.48
Chickasaw	233.853	232.840	1.013	99.57
Clarke	246.574	246.574	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	307.586	307.586	0.000	100.00
Clayton	402.348	402.348	0.000	100.00
Clinton	349.114	349.114	0.000	100.00
Crawford	378.490	375.616	2.874	99.24
Dallas	248.199	248.199	0.000	100.00
Davis	265.762	265.762	0.000	100.00
Decatur	304.015	304.015	0.000	100.00
Delaware	292.480	292.480	0.000	100.00
Des Moines	235.302	235.001	0.301	99.87
Dickinson	220.717	220.717	0.000	100.00
Dubuque	313.813	312.561	1.252	99.60
Emmet	178.762	178.762	0.000	100.00
Fayette	344.609	344.553	0.056	99.98
Floyd	247.140	247.140	0.000	100.00
Franklin	354.140	354.140	0.000	100.00
Fremont	256.421	256.421	0.000	100.00
Greene	315.468	315.468	0.000	100.00
Grundy	277.574	277.574	0.000	100.00
Guthrie	288.181	287.970	0.211	99.93
Hamilton	316.025	314.521	1.504	99.52

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	313.598	313.069	0.529	99.83
Hardin	369.242	369.242	0.000	100.00
Harrison	346.497	346.279	0.218	99.94
Henry	270.266	269.647	0.619	99.77
Howard	242.394	242.394	0.000	100.00
Humboldt	200.261	200.261	0.000	100.00
Ida	224.298	224.298	0.000	100.00
Iowa	355.743	355.351	0.392	99.89
Jackson	328.116	326.450	1.666	99.49
Jasper	405.069	405.069	0.000	100.00
Jefferson	283.225	281.329	1.896	99.33
Johnson	306.517	306.517	0.000	100.00
Jones	312.060	310.400	1.660	99.47
Keokuk	319.940	318.419	1.521	99.52
Kossuth	475.661	475.661	0.000	100.00
Lee	275.674	275.674	0.000	100.00
Linn	335.091	334.091	1.000	99.70
Louisa	238.234	238.234	0.000	100.00
Lucas	211.438	211.438	0.000	100.00
Lyon	320.822	320.822	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	320.536	320.536	0.000	100.00
Mahaska	298.326	298.281	0.045	99.98
Marion	301.024	300.956	0.068	99.98
Marshall	309.957	309.945	0.012	100.00
Mills	223.124	223.124	0.000	100.00
Mitchell	239.232	239.232	0.000	100.00
Monona	352.138	352.138	0.000	100.00
Monroe	273.175	273.175	0.000	100.00
Montgomery	224.022	224.022	0.000	100.00
Muscatine	219.472	217.901	1.571	99.28
O'Brien	312.497	312.497	0.000	100.00
Osceola	243.072	243.072	0.000	100.00
Page	320.620	320.620	0.000	100.00
Palo Alto	308.295	308.295	0.000	100.00
Plymouth	361.639	361.639	0.000	100.00
Pocahontas	305.781	305.781	0.000	100.00
Polk	317.095	317.095	0.000	100.00
Pottawattamie	542.438	541.437	1.001	99.82
Poweshiek	329.373	325.463	3.910	98.81
Ringgold	273.400	273.400	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	327.729	327.729	0.000	100.00
Scott	206.905	206.035	0.870	99.58
Shelby	293.402	257.306	36.096	87.70
Sioux	424.884	423.933	0.951	99.78
Story	358.745	358.745	0.000	100.00
Tama	359.519	358.581	0.938	99.74
Taylor	324.993	320.227	4.766	98.53
Union	249.272	249.272	0.000	100.00
Van Buren	258.186	257.871	0.315	99.88
Wapello	274.045	274.045	0.000	100.00
Warren	311.177	310.164	1.013	99.67
Washington	362.848	362.848	0.000	100.00
Wayne	297.427	296.414	1.013	99.66
Webster	392.898	392.898	0.000	100.00
Winnebago	202.692	193.232	9.460	95.33
Winneshiek	345.676	345.676	0.000	100.00
Woodbury	366.778	366.778	0.000	100.00
Worth	235.482	235.482	0.000	100.00
Wright	229.549	229.549	0.000	100.00
TOTAL	29,691.524	29,603.441	88.083	99.70

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	749.414	605.135	144.279	80.75
Adams	533.089	429.710	103.379	80.61
Allamakee	580.501	558.296	22.205	96.17
Appanoose	491.354	446.542	44.812	90.88
Audubon	488.493	440.910	47.583	90.26
Benton	880.287	786.336	93.951	89.33
Black Hawk	499.478	493.443	6.035	98.79
Boone	673.193	666.741	6.452	99.04
Bremer	522.495	517.328	5.167	99.01
Buchanan	613.731	588.025	25.706	95.81
Buena Vista	674.390	663.952	10.438	98.45
Butler	667.682	645.385	22.297	96.66
Calhoun	682.175	675.841	6.334	99.07
Carroll	648.500	631.071	17.429	97.31
Cass	642.499	501.991	140.508	78.13
Cedar	598.007	537.837	60.170	89.94
Cerro Gordo	648.608	638.064	10.544	98.37
Cherokee	695.790	668.300	27.490	96.05
Chickasaw	608.871	598.236	10.635	98.25
Clarke	415.616	342.398	73.218	82.38

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	659.796	654.772	5.024	99.24
Clayton	676.924	639.212	37.712	94.43
Clinton	662.048	650.994	11.054	98.33
Crawford	844.151	637.800	206.351	75.56
Dallas	639.981	627.965	12.016	98.12
Davis	547.025	477.411	69.614	87.27
Decatur	476.428	381.934	94.494	80.17
Delaware	622.308	606.620	15.688	97.48
Des Moines	402.967	336.081	66.886	83.40
Dickinson	440.926	414.715	26.211	94.06
Dubuque	469.317	454.143	15.174	96.77
Emmet	467.103	461.354	5.749	98.77
Fayette	797.125	792.214	4.911	99.38
Floyd	639.279	634.990	4.289	99.33
Franklin	649.720	634.711	15.009	97.69
Fremont	526.566	392.043	134.523	74.45
Greene	644.940	635.360	9.580	98.51
Grundy	558.835	545.202	13.633	97.56
Guthrie	667.116	589.836	77.280	88.42
Hamilton	614.552	612.052	2.500	99.59

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	703.601	692.236	11.365	98.38
Hardin	633.715	626.150	7.565	98.81
Harrison	766.617	609.197	157.420	79.47
Henry	475.690	405.845	69.845	85.32
Howard	514.981	509.580	5.401	98.95
Humboldt	513.631	512.195	1.436	99.72
Ida	509.645	450.454	59.191	88.39
Iowa	582.711	499.428	83.283	85.71
Jackson	514.253	470.867	43.386	91.56
Jasper	825.457	769.196	56.261	93.18
Jefferson	466.162	369.100	97.062	79.18
Johnson	624.837	580.093	44.744	92.84
Jones	533.063	501.839	31.224	94.14
Keokuk	609.075	504.357	104.718	82.81
Kossuth	1,179.219	1,143.360	35.859	96.96
Lee	442.796	430.455	12.341	97.21
Linn	832.976	803.572	29.404	96.47
Louisa	347.646	306.572	41.074	88.19
Lucas	420.114	327.615	92.499	77.98
Lyon	688.019	682.668	5.351	99.22

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	592.200	538.344	53.856	90.91
Mahaska	685.972	637.803	48.169	92.98
Marion	571.846	520.794	51.052	91.07
Marshall	626.629	600.110	26.519	95.77
Mills	455.050	378.970	76.080	83.28
Mitchell	544.648	537.197	7.451	98.63
Monona	717.943	617.367	100.576	85.99
Monroe	346.153	281.733	64.420	81.39
Montgomery	496.032	386.990	109.042	78.02
Muscatine	393.446	374.769	18.677	95.25
O'Brien	704.731	641.000	63.731	90.96
Osceola	479.367	431.141	48.226	89.94
Page	598.519	437.104	161.415	73.03
Palo Alto	640.075	636.276	3.799	99.41
Plymouth	1,065.634	1,018.915	46.719	95.62
Pocahontas	698.403	680.294	18.109	97.41
Polk	451.409	441.643	9.766	97.84
Pottawattamie	954.307	852.453	101.854	89.33
Poweshiek	650.222	527.084	123.138	81.06
Ringgold	625.797	399.495	226.302	63.84

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	695.853	670.973	24.880	96.42
Scott	353.293	340.112	13.181	96.27
Shelby	666.588	504.478	162.110	75.68
Sioux	940.659	880.813	59.846	93.64
Story	581.308	555.326	25.982	95.53
Tama	801.921	711.129	90.792	88.68
Taylor	602.061	437.199	164.862	72.62
Union	454.158	348.789	105.369	76.80
Van Buren	486.637	424.135	62.502	87.16
Wapello	428.710	383.372	45.338	89.42
Warren	572.935	496.103	76.832	86.59
Washington	565.318	460.274	105.044	81.42
Wayne	539.390	470.625	68.765	87.25
Webster	784.433	777.254	7.179	99.08
Winnebago	516.549	510.408	6.141	98.81
Winneshiek	710.444	696.810	13.634	98.08
Woodbury	997.382	915.686	81.696	91.81
Worth	457.837	448.844	8.993	98.04
Wright	736.095	733.367	2.728	99.63
TOTAL	60,695.442	55,514.908	5,180.534	91.46