



# Iowa State Rail Plan Final

Appendix D

*Commodity Movements*



# Contents

D.1 Introduction

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## D.1 Introduction

The purpose of this appendix is to provide tables to support Section 2.2.2 (Freight Demand and Growth) of the Iowa State Rail Plan. The data in these tables reflects freight movements only and should not necessarily be construed as a direct reflection of production and/or consumption in the state. This section includes tables showing:

- Rail Movement by Commodity (All Directions), 2013
- Rail Outbound Movement by Commodity, 2013
- Rail Inbound Movement by Commodity, 2013
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- Rail Outbound Tons by Geography, 2013
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- FHWA FAF Rail Tons by SCTG, 2013 and 2040

Table D.1: Rail Movement by Commodity (All Directions), 2013

STCC2	COMMODITY	TONS		UNITS (CARLOADS)	
		AMOUNT	PERCENT	AMOUNT	PERCENT
01	Farm Prods.	20,042,353	6.9%	214,088	4.8%
08	Forest Prods.	8,920	0.0%	280	0.0%
09	Fresh Fish or Marine Prods.	15,200	0.0%	440	0.0%
10	Metallic Ores	1,452,258	0.5%	14,791	0.3%
11	Coal	134,395,851	46.3%	1,215,557	27.1%
13	Crude Petrol. or Natural Gas	3,338,685	1.2%	35,954	0.8%
14	Nonmetallic Minerals	17,358,788	6.0%	169,889	3.8%
19	Ordnance or Accessories	10,640	0.0%	440	0.0%
20	Food or Kindred Prods.	37,994,887	13.1%	526,973	11.8%
21	Tobacco Prods.	0	0.0%	0	0.0%
22	Textile Mill Prods.	42,560	0.0%	3,160	0.1%
23	Apparel or Related Prods.	1,262,440	0.4%	98,480	2.2%
24	Lumber or Wood Prods.	3,945,156	1.4%	52,108	1.2%
25	Furniture or Fixtures	264,400	0.1%	27,240	0.6%
26	Pulp, Paper or Allied Prods.	2,108,960	0.7%	53,720	1.2%
27	Printed Matter	204,080	0.1%	10,960	0.2%
28	Chemicals or Allied Prods.	31,244,820	10.8%	402,477	9.0%
29	Petroleum or Coal Prods.	3,912,492	1.3%	49,684	1.1%
30	Rubber or Misc Plastics	539,720	0.2%	40,480	0.9%
31	Leather or Leather Prods.	7,960	0.0%	520	0.0%
32	Clay, Concrete, Glass, or Stone	3,415,660	1.2%	39,144	0.9%
33	Primary Metal Prods.	4,773,064	1.6%	59,880	1.3%
34	Fabricated Metal Prods.	417,780	0.1%	28,876	0.6%
35	Machinery	406,992	0.1%	20,762	0.5%
36	Electrical Equipment	295,374	0.1%	26,330	0.6%

37	Transportation Equipment	5,766,574	2.0%	317,018	7.1%
38	Instrum., Photo Eq., Optical Eq.	21,360	0.0%	1,800	0.0%
39	Misc Manufacturing Prods.	232,240	0.1%	24,560	0.5%
40	Waste or Scrap Materials	2,427,380	0.8%	32,524	0.7%
41	Misc Freight Shipments	448,816	0.2%	61,492	1.4%
42	Shipping Containers	512,040	0.2%	88,160	2.0%
43	Mail or Contract Traffic	3,760	0.0%	520	0.0%
44	Freight Forwarder Traffic	141,280	0.0%	8,000	0.2%
45	Shipper Association Traffic	0	0.0%	0	0.0%
46	Misc Mixed Shipments	12,529,640	4.3%	837,920	18.7%
47	Small Packaged Shipments	110,080	0.0%	8,760	0.2%
48	Waste	623,421	0.2%	6,611	0.1%
49	Hazardous Materials	0	0.0%	0	0.0%
50	Secondary Traffic	0	0.0%	0	0.0%
60	Unclassified	0	0.0%	0	0.0%
<b>Total</b>		<b>290,275,631</b>	<b>100.0%</b>	<b>4,479,598</b>	<b>100.0%</b>

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Table D.2: Rail Outbound Movement by Commodity, 2013

STCC2	COMMODITY	TONS		UNITS (CARLOADS)	
		AMOUNT	PERCENT	AMOUNT	PERCENT
01	Farm Prods.	3,053,980	8.6%	29,378	7.3%
08	Forest Prods.	0	0.0%	0	0.0%
09	Fresh Fish or Marine Prods.	0	0.0%	0	0.0%
10	Metallic Ores	0	0.0%	0	0.0%
11	Coal	0	0.0%	0	0.0%
13	Crude Petrol. or Natural Gas	0	0.0%	0	0.0%
14	Nonmetallic Minerals	1,293,345	3.7%	11,876	3.0%
19	Ordnance or Accessories	0	0.0%	0	0.0%
20	Food or Kindred Prods.	18,490,932	52.2%	193,089	48.2%
21	Tobacco Prods.	0	0.0%	0	0.0%
22	Textile Mill Prods.	0	0.0%	0	0.0%
23	Apparel or Related Prods.	14,960	0.0%	920	0.2%
24	Lumber or Wood Prods.	0	0.0%	0	0.0%
25	Furniture or Fixtures	0	0.0%	0	0.0%
26	Pulp, Paper or Allied Prods.	162,480	0.5%	2,280	0.6%
27	Printed Matter	0	0.0%	0	0.0%
28	Chemicals or Allied Prods.	9,632,687	27.2%	102,799	25.6%
29	Petroleum or Coal Prods.	135,368	0.4%	1,548	0.4%

30	Rubber or Misc Plastics	400	0.0%	40	0.0%
31	Leather or Leather Prods.	0	0.0%	0	0.0%
32	Clay, Concrete, Glass, or Stone	599,464	1.7%	5,876	1.5%
33	Primary Metal Prods.	928,544	2.6%	10,836	2.7%
34	Fabricated Metal Prods.	0	0.0%	0	0.0%
35	Machinery	107,236	0.3%	3,156	0.8%
36	Electrical Equipment	0	0.0%	0	0.0%
37	Transportation Equipment	191,030	0.5%	7,145	1.8%
38	Instrum., Photo Eq., Optical Eq.	0	0.0%	0	0.0%
39	Misc Manufacturing Prods.	0	0.0%	0	0.0%
40	Waste or Scrap Materials	387,632	1.1%	5,572	1.4%
41	Misc Freight Shipments	0	0.0%	0	0.0%
42	Shipping Containers	31,840	0.1%	4,280	1.1%
43	Mail or Contract Traffic	0	0.0%	0	0.0%
44	Freight Forwarder Traffic	0	0.0%	0	0.0%
45	Shipper Association Traffic	0	0.0%	0	0.0%
46	Misc Mixed Shipments	398,800	1.1%	22,040	5.5%
47	Small Packaged Shipments	0	0.0%	0	0.0%
48	Waste	0	0.0%	0	0.0%
49	Hazardous Materials	0	0.0%	0	0.0%
50	Secondary Traffic	0	0.0%	0	0.0%
60	Unclassified	0	0.0%	0	0.0%
<b>Total</b>		<b>35,428,698</b>	<b>100.0%</b>	<b>400,835</b>	<b>100.0%</b>

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Table D.3: Rail Inbound Movement by Commodity, 2013

STCC2	COMMODITY	TONS		UNITS (CARLOADS)	
		AMOUNT	PERCENT	AMOUNT	PERCENT
01	Farm Prods.	2,277,752	6.4%	23,563	6.5%
08	Forest Prods.	8,520	0.0%	240	0.1%
09	Fresh Fish or Marine Prods.	0	0.0%	0	0.0%
10	Metallic Ores	0	0.0%	0	0.0%
11	Coal	22,363,841	63.2%	187,395	51.9%
13	Crude Petrol. or Natural Gas	132	0.0%	76	0.0%
14	Nonmetallic Minerals	430,140	1.2%	4,652	1.3%
19	Ordnance or Accessories	0	0.0%	0	0.0%
20	Food or Kindred Prods.	2,510,984	7.1%	25,140	7.0%
21	Tobacco Prods.	0	0.0%	0	0.0%
22	Textile Mill Prods.	0	0.0%	0	0.0%

23	Apparel or Related Prods.	4,040	0.0%	320	0.1%
24	Lumber or Wood Prods.	285,320	0.8%	3,160	0.9%
25	Furniture or Fixtures	960	0.0%	80	0.0%
26	Pulp, Paper or Allied Prods.	268,040	0.8%	3,640	1.0%
27	Printed Matter	2,440	0.0%	120	0.0%
28	Chemicals or Allied Prods.	4,229,255	11.9%	45,730	12.7%
29	Petroleum or Coal Prods.	387,588	1.1%	4,604	1.3%
30	Rubber or Misc Plastics	720	0.0%	40	0.0%
31	Leather or Leather Prods.	0	0.0%	0	0.0%
32	Clay, Concrete, Glass, or Stone	773,756	2.2%	7,388	2.0%
33	Primary Metal Prods.	500,324	1.4%	5,388	1.5%
34	Fabricated Metal Prods.	0	0.0%	0	0.0%
35	Machinery	0	0.0%	0	0.0%
36	Electrical Equipment	1,600	0.0%	80	0.0%
37	Transportation Equipment	173,128	0.5%	7,304	2.0%
38	Instrum., Photo Eq., Optical Eq.	0	0.0%	0	0.0%
39	Misc Manufacturing Prods.	0	0.0%	0	0.0%
40	Waste or Scrap Materials	754,940	2.1%	8,960	2.5%
41	Misc Freight Shipments	1,480	0.0%	80	0.0%
42	Shipping Containers	59,640	0.2%	5,760	1.6%
43	Mail or Contract Traffic	0	0.0%	0	0.0%
44	Freight Forwarder Traffic	0	0.0%	0	0.0%
45	Shipper Association Traffic	0	0.0%	0	0.0%
46	Misc Mixed Shipments	367,000	1.0%	27,000	7.5%
47	Small Packaged Shipments	840	0.0%	40	0.0%
48	Waste	0	0.0%	0	0.0%
49	Hazardous Materials	0	0.0%	0	0.0%
50	Secondary Traffic	0	0.0%	0	0.0%
60	Unclassified	0	0.0%	0	0.0%
<b>Total</b>		<b>35,402,440</b>	<b>100.0%</b>	<b>360,760</b>	<b>100.0%</b>

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Table D.4: Rail Intra Movement by Commodity, 2013

STCC2	COMMODITY	TONS		UNITS (CARLOADS)	
		AMOUNT	PERCENT	AMOUNT	PERCENT
01	Farm Prods.	1,357,201	19.7%	17,390	18.5%
08	Forest Prods.	0	0.0%	0	0.0%
09	Fresh Fish or Marine Prods.	0	0.0%	0	0.0%
10	Metallic Ores	0	0.0%	0	0.0%

11	Coal	3,115,724	45.2%	26,180	27.9%
13	Crude Petrol. or Natural Gas	0	0.0%	0	0.0%
14	Nonmetallic Minerals	137,524	2.0%	1,372	1.5%
19	Ordnance or Accessories	0	0.0%	0	0.0%
20	Food or Kindred Prods.	924,631	13.4%	19,252	20.5%
21	Tobacco Prods.	0	0.0%	0	0.0%
22	Textile Mill Prods.	0	0.0%	0	0.0%
23	Apparel or Related Prods.	0	0.0%	0	0.0%
24	Lumber or Wood Prods.	0	0.0%	0	0.0%
25	Furniture or Fixtures	0	0.0%	0	0.0%
26	Pulp, Paper or Allied Prods.	0	0.0%	0	0.0%
27	Printed Matter	0	0.0%	0	0.0%
28	Chemicals or Allied Prods.	648,250	9.4%	19,776	21.1%
29	Petroleum or Coal Prods.	0	0.0%	0	0.0%
30	Rubber or Misc Plastics	0	0.0%	0	0.0%
31	Leather or Leather Prods.	0	0.0%	0	0.0%
32	Clay, Concrete, Glass, or Stone	173,440	2.5%	1,560	1.7%
33	Primary Metal Prods.	53,000	0.8%	600	0.6%
34	Fabricated Metal Prods.	0	0.0%	0	0.0%
35	Machinery	0	0.0%	0	0.0%
36	Electrical Equipment	0	0.0%	0	0.0%
37	Transportation Equipment	67,968	1.0%	2,848	3.0%
38	Instrum., Photo Eq., Optical Eq.	0	0.0%	0	0.0%
39	Misc Manufacturing Prods.	0	0.0%	0	0.0%
40	Waste or Scrap Materials	416,988	6.0%	4,932	5.3%
41	Misc Freight Shipments	0	0.0%	0	0.0%
42	Shipping Containers	0	0.0%	0	0.0%
43	Mail or Contract Traffic	0	0.0%	0	0.0%
44	Freight Forwarder Traffic	0	0.0%	0	0.0%
45	Shipper Association Traffic	0	0.0%	0	0.0%
46	Misc Mixed Shipments	0	0.0%	0	0.0%
47	Small Packaged Shipments	0	0.0%	0	0.0%
48	Waste	0	0.0%	0	0.0%
49	Hazardous Materials	0	0.0%	0	0.0%
50	Secondary Traffic	0	0.0%	0	0.0%
60	Unclassified	0	0.0%	0	0.0%
<b>Total</b>		<b>6,894,726</b>	<b>100.0%</b>	<b>93,910</b>	<b>100.0%</b>

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Table D.5: Rail Through Movement by Commodity, 2013

STCC2	COMMODITY	TONS		UNITS (CARLOADS)	
		AMOUNT	PERCENT	AMOUNT	PERCENT
01	Farm Prods.	13,353,420	6.3%	143,757	4.0%
08	Forest Prods.	400	0.0%	40	0.0%
09	Fresh Fish or Marine Prods.	15,200	0.0%	440	0.0%
10	Metallic Ores	1,452,258	0.7%	14,791	0.4%
11	Coal	108,916,286	51.2%	1,001,982	27.6%
13	Crude Petrol. or Natural Gas	3,338,553	1.6%	35,878	1.0%
14	Nonmetallic Minerals	15,497,779	7.3%	151,989	4.2%
19	Ordnance or Accessories	10,640	0.0%	440	0.0%
20	Food or Kindred Prods.	16,068,340	7.6%	289,492	8.0%
21	Tobacco Prods.	0	0.0%	0	0.0%
22	Textile Mill Prods.	42,560	0.0%	3,160	0.1%
23	Apparel or Related Prods.	1,243,440	0.6%	97,240	2.7%
24	Lumber or Wood Prods.	3,659,836	1.7%	48,948	1.4%
25	Furniture or Fixtures	263,440	0.1%	27,160	0.7%
26	Pulp, Paper or Allied Prods.	1,678,440	0.8%	47,800	1.3%
27	Printed Matter	201,640	0.1%	10,840	0.3%
28	Chemicals or Allied Prods.	16,734,628	7.9%	234,172	6.5%
29	Petroleum or Coal Prods.	3,389,536	1.6%	43,532	1.2%
30	Rubber or Misc Plastics	538,600	0.3%	40,400	1.1%
31	Leather or Leather Prods.	7,960	0.0%	520	0.0%
32	Clay, Concrete, Glass, or Stone	1,869,000	0.9%	24,320	0.7%
33	Primary Metal Prods.	3,291,196	1.5%	43,056	1.2%
34	Fabricated Metal Prods.	417,780	0.2%	28,876	0.8%
35	Machinery	299,756	0.1%	17,606	0.5%
36	Electrical Equipment	293,774	0.1%	26,250	0.7%
37	Transportation Equipment	5,334,448	2.5%	299,721	8.3%
38	Instrum., Photo Eq., Optical Eq.	21,360	0.0%	1,800	0.0%
39	Misc Manufacturing Prods.	232,240	0.1%	24,560	0.7%
40	Waste or Scrap Materials	867,820	0.4%	13,060	0.4%
41	Misc Freight Shipments	447,336	0.2%	61,412	1.7%
42	Shipping Containers	420,560	0.2%	78,120	2.2%
43	Mail or Contract Traffic	3,760	0.0%	520	0.0%
44	Freight Forwarder Traffic	141,280	0.1%	8,000	0.2%
45	Shipper Association Traffic	0	0.0%	0	0.0%
46	Misc Mixed Shipments	11,763,840	5.5%	788,880	21.8%



47	Small Packaged Shipments	109,240	0.1%	8,720	0.2%
48	Waste	623,421	0.3%	6,611	0.2%
49	Hazardous Materials	0	0.0%	0	0.0%
50	Secondary Traffic	0	0.0%	0	0.0%
60	Unclassified	0	0.0%	0	0.0%
<b>Total</b>		<b>212,549,767</b>	<b>100.0%</b>	<b>3,624,093</b>	<b>100.0%</b>

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Table D.6: Rail Outbound Tons by Geography, 2013

STCC2	ORIGINATING IOWA COUNTIES						Total	Percent
	POTTAWATTAMIE	WAPELLO	CLINTON	WOODBURY	LINN	REMAINING		
20 Food or Kindred Prods.	2,567,292	2,837,823	1,406,656	1,799,898	1,756,578	8,122,685	18,490,932	52.2%
28 Chemicals or Allied Prods.	197,900	56,360	909,872	303,922	71,778	8,092,855	9,632,687	27.2%
01 Farm Prods.	1,205,882	0	94,216	174,944	11,520	1,567,418	3,053,980	8.6%
14 Nonmetallic Minerals	152,320	4,640	0	84,885	0	1,051,500	1,293,345	3.7%
33 Primary Metal Prods.	3,040	0	191,680	0	0	733,824	928,544	2.6%
Remaining Commodities	532,956	15,560	61,256	60,400	188,160	1,170,878	2,029,210	5.7%
<b>Total</b>	<b>4,659,390</b>	<b>2,914,383</b>	<b>2,663,680</b>	<b>2,424,049</b>	<b>2,028,036</b>	<b>20,739,160</b>	<b>35,428,698</b>	<b>100.0%</b>
<b>Percent</b>	<b>13.2%</b>	<b>8.2%</b>	<b>7.5%</b>	<b>6.8%</b>	<b>5.7%</b>	<b>58.5%</b>	<b>100.0%</b>	

STCC2	TERMINATING STATE						Total	Percent
	ILLINOIS	TEXAS	CALIFORNIA	MISSOURI	ARIZONA	REMAINING		
20 Food or Kindred Prods.	5,637,863	4,153,627	2,300,692	1,158,872	586,929	4,652,949	18,490,932	52.2%
28 Chemicals or Allied Prods.	4,497,444	1,513,155	404,589	152,000	500,564	2,564,935	9,632,687	27.2%
01 Farm Prods.	242,744	127,407	468,726	81,350	258,240	1,875,513	3,053,980	8.6%
14 Nonmetallic Minerals	83,716	741,784	0	0	0	467,845	1,293,345	3.7%
33 Primary Metal Prods.	29,880	102,440	26,600	5,160	0	764,464	928,544	2.6%
Remaining Commodities	418,460	137,076	287,800	18,120	0	1,167,754	2,029,210	5.7%
<b>Total</b>	<b>10,910,107</b>	<b>6,775,489</b>	<b>3,488,407</b>	<b>1,415,502</b>	<b>1,345,733</b>	<b>11,493,460</b>	<b>35,428,698</b>	<b>100.0%</b>
<b>Percent</b>	<b>30.8%</b>	<b>19.1%</b>	<b>9.8%</b>	<b>4.0%</b>	<b>3.8%</b>	<b>32.4%</b>	<b>100.0%</b>	

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Note: Though Linn County produces a large volume of ethanol, included in the Chemical and Allied Products category, the data includes a large quantity of outbound movements to adjoining Johnson County for repositioning.

Table D.7: Rail Inbound Tons by Geography, 2013

STCC2	ORIGINATING STATE						Total	Percent
	WYOMING	ILLINOIS	MINNESOTA	NEBRASKA	SASKATCHEWAN	REMAINING		
11 Coal	22,097,744	266,097	0	0	0	0	22,363,841	63.2%
28 Chemicals or Allied Prods.	254,927	391,434	144,500	3,600	207,696	3,227,098	4,229,255	11.9%
20 Food or Kindred Prods.	0	295,260	247,032	1,065,448	228,996	674,248	2,510,984	7.1%
01 Farm Prods.	0	202,897	880,463	49,812	521,268	623,312	2,277,752	6.4%
32 Clay, Concrete, Glass, or Stone	38,000	58,400	0	80,808	0	596,548	773,756	2.2%
Remaining Commodities	7,400	411,300	220,016	228,228	25,120	2,354,788	3,246,852	9.2%
<b>Total</b>	<b>22,398,071</b>	<b>1,625,388</b>	<b>1,492,011</b>	<b>1,427,896</b>	<b>983,080</b>	<b>7,475,994</b>	<b>35,402,440</b>	<b>100.0%</b>
<b>Percent</b>	<b>63.3%</b>	<b>4.6%</b>	<b>4.2%</b>	<b>4.0%</b>	<b>2.8%</b>	<b>21.1%</b>	<b>100.0%</b>	

STCC2	TERMINATING IOWA COUNTIES						Total	Percent
	POTTAWATTAMIE	WAPELLO	WOODBURY	LINN	LEE	REMAINING		
20 Food or Kindred Prods.	5,745,710	5,531,658	4,512,618	2,652,985	1,624,716	2,296,154	22,363,841	63.2%
28 Chemicals or Allied Prods.	203,960	200,560	664,240	45,160	148,040	2,967,295	4,229,255	11.9%
01 Farm Prods.	1,015,412	113,632	339,980	182,680	0	859,280	2,510,984	7.1%
14 Nonmetallic Minerals	96,212	0	28,017	512,063	76,476	1,564,984	2,277,752	6.4%
33 Primary Metal Prods.	23,988	0	27,928	0	0	721,840	773,756	2.2%
Remaining Commodities	927,848	34,720	215,552	122,204	50,268	1,896,260	3,246,852	9.2%
<b>Total</b>	<b>8,013,130</b>	<b>5,880,570</b>	<b>5,788,335</b>	<b>3,515,092</b>	<b>1,899,500</b>	<b>10,305,813</b>	<b>35,402,440</b>	<b>100.0%</b>
<b>Percent</b>	<b>22.6%</b>	<b>16.6%</b>	<b>16.4%</b>	<b>9.9%</b>	<b>5.4%</b>	<b>29.1%</b>	<b>100.0%</b>	

Source: Prepared by CDM Smith, based on the STB Waybill Sample data for 2013

Note: For Nebraska's Food and Kindred Products, 76 percent of such inbound movement goes to just one Iowa county (Pottawattamie) to rail yards for repositioning.

Table D.8: FHWA FAF Rail Tons by SCTG, 2013 and 2040

SCTG	DESCRIPTION	OUTBOUND			INBOUND			INTRA		
		2013	2040	CAGR	2013	2040	CAGR	2013	2040	CAGR
	Agricultural									
1	Live Animals/ Fish	0	0	#N/A	0	0	#N/A	0	0	#N/A
2	Cereal Grains	6,334,523	4,851,376	-1.0%	2,187,039	8,040,631	4.9%	2,506,016	5,058,032	2.6%
3	Other Ag Prods.	755,577	1,377,145	2.2%	21,577	40,966	2.4%	416,559	993,129	3.3%
4	Animal Feed	6,092,010	8,417,124	1.2%	186,998	366,394	2.5%	431,587	858,608	2.6%
5	Meat/Seafood	23,532	21,556	-0.3%	77	202	3.6%	0	0	#N/A
6	Milled Grain Prods.	1,564,079	1,157,541	-1.1%	79,765	469,372	6.8%	132,593	232,699	2.1%

7	Other Foodstuffs	6,197,705	8,321,280	1.1%	627,830	1,581,406	3.5%	186,403	281,196	1.5%
8	Alcoholic Beverages	2,166,355	6,624,060	4.2%	255	1,793	7.5%	12,835	26,077	2.7%
9	Tobacco Prods.	0	0	#N/A	0	0	#N/A	0	0	#N/A
<b>SUBTOTAL</b>		<b>23,133,781</b>	<b>30,770,081</b>	<b>1.1%</b>	<b>3,103,540</b>	<b>10,500,764</b>	<b>4.6%</b>	<b>3,685,994</b>	<b>7,449,741</b>	<b>2.6%</b>
<b>Mining/ Extraction</b>										
10	Building Stone	0	0	#N/A	0	0	#N/A	0	0	#N/A
11	Natural Sands	0	0	-5.7%	0	0	#N/A	0	0	#N/A
12	Gravel	221,305	154,786	-1.3%	1,123,432	1,685,276	1.5%	1,340,938	1,976,559	1.4%
13	Nonmetallic Minerals	215,147	197,663	-0.3%	478,903	1,455,514	4.2%	0	0	#N/A
14	Metallic Ores	1,346	1,417	0.2%	206	289	1.3%	0	0	#N/A
15	Coal	0	0	#N/A	21,608,858	20,218,593	-0.2%	0	0	#N/A
16	Crude Petroleum	0	0	#N/A	0	0	#N/A	0	0	#N/A
<b>SUBTOTAL</b>		<b>437,799</b>	<b>353,866</b>	<b>-0.8%</b>	<b>23,211,400</b>	<b>23,359,672</b>	<b>0.0%</b>	<b>1,340,938</b>	<b>1,976,559</b>	<b>1.4%</b>
<b>Manufacturing</b>										
17	Gasoline	0	0	#N/A	7,452	5,415	-1.2%	0	0	#N/A
18	Fuel Oils	0	0	#N/A	0	0	#N/A	0	0	#N/A
19	Coal NEC	499,342	308,037	-1.8%	418,266	511,689	0.7%	38,922	35,983	-0.3%
20	Basic Chemicals	605,156	360,140	-1.9%	1,731,864	2,953,554	2.0%	108,771	107,688	0.0%
21	Pharmaceuticals	1,215	9,043	7.7%	0	0	#N/A	0	0	#N/A
22	Fertilizers	88,764	46,712	-2.3%	1,965,818	5,000,200	3.5%	61,238	27,243	-3.0%
23	Chemical Prods.	156,016	1,023,870	7.2%	890,418	1,890,721	2.8%	12,194	33,385	3.8%
24	Plastics/Rubber	684,132	993,910	1.4%	270,405	543,014	2.6%	117,026	223,172	2.4%
25	Logs	954	4,072	5.5%	0	0	#N/A	0	0	#N/A
26	Wood Prods.	12,242	12,809	0.2%	267,377	381,942	1.3%	16,114	11,347	-1.3%
27	Newsprint/Paper	24,197	12,100	-2.5%	260,769	665,767	3.5%	0	0	#N/A
28	Paper Articles	7,583	8,327	0.3%	125,620	316,954	3.5%	0	0	#N/A
29	Printed Prods.	73,467	66,249	-0.4%	70	57	-0.7%	5,575	7,232	1.0%
30	Textiles/Leather	31,698	33,767	0.2%	1,036	2,646	3.5%	0	0	#N/A
31	Nonmetal Min. Prods.	1,221,430	1,970,745	1.8%	340,558	582,459	2.0%	138,217	235,164	2.0%
32	Base Metals	798,552	1,223,861	1.6%	832,978	1,302,988	1.7%	331,398	271,462	-0.7%
33	Articles-Base Metal	102,222	163,415	1.8%	71,822	91,786	0.9%	11,311	11,522	0.1%
34	Machinery	19,845	84,723	5.5%	11,047	82,799	7.7%	0	0	#N/A
35	Electronics	5,985	4,199	-1.3%	39	186	6.0%	0	0	#N/A
36	Motorized Vehicles	43,251	59,395	1.2%	34	56	1.9%	0	0	#N/A
37	Transport Equip.	7,215	10,478	1.4%	19,436	127,100	7.2%	0	0	#N/A
38	Precision Instruments	1,784	29,016	10.9%	1	4	5.2%	0	0	#N/A

39	Furniture	4,918	7,948	1.8%	62	417	7.3%	0	0	#N/A
40	Misc. Mfg. Prods.	5,215	30,646	6.8%	2,590	8,345	4.4%	0	0	#N/A
<b>SUBTOTAL</b>		<b>4,395,184</b>	<b>6,463,458</b>	<b>1.4%</b>	<b>7,217,659</b>	<b>14,468,100</b>	<b>2.6%</b>	<b>840,765</b>	<b>964,198</b>	<b>0.5%</b>
<b>Other</b>										
41	Waste/Scrap	298,402	466,431	1.7%	525,576	716,333	1.2%	558,015	1,159,021	2.7%
43	Mixed Freight	111	267	3.3%	3,358	11,394	4.6%	0	0	#N/A
99	Unknown	2,432	19,613	8.0%	0	0	#N/A	0	0	#N/A
<b>SUBTOTAL</b>		<b>300,945</b>	<b>486,311</b>	<b>1.8%</b>	<b>528,934</b>	<b>727,727</b>	<b>1.2%</b>	<b>558,015</b>	<b>1,159,021</b>	<b>2.7%</b>
<b>Total</b>		<b>28,267,709</b>	<b>38,073,716</b>	<b>1.1%</b>	<b>34,061,534</b>	<b>49,056,264</b>	<b>1.4%</b>	<b>6,425,712</b>	<b>11,549,518</b>	<b>2.2%</b>

Source: Prepared by CDM Smith, based on the FHWA FAFv3.5 and v3.6



 **IOWA DOT**

