



ILLINOIS MARINE  
TRANSPORTATION SYSTEM

# Appendix E

## Commodity Flows and Economic Impact Data



wsp  
CPCS  
EBP



Illinois Department of Transportation



# ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

## CONTENTS

<b>E.1</b>	<b>Economic Impact Data .....</b>	<b>2</b>
E.1.1	2017 Volume by Direction and Waterway in Thousands of Tons .....	2
E.1.2	2045 Forecast Growth by Direction in Thousands of Tons .....	2
E.1.3	IMTS Commodity Forecast .....	3
E.1.4	2045 Volume by Direction and Waterway in Thousands of Tons .....	3
E.1.5	Outbound Commodity Shipments in 2017 in Thousands of Tons .....	4
E.1.6	Inbound Commodity Shipments in 2017 in Thousands of Tons .....	4
E.1.7	In-State Commodity Shipments in 2017 in Thousands of Tons .....	5
E.1.8	Forecast of Outbound Shipments of Food in Millions of Tons .....	5
E.1.9	Forecast of Outbound Corn and Soybean Shipments in Millions of Tons.....	5
E.1.10	Forecast of Inbound Shipments of Food in Thousands of Tons .....	5
E.1.11	Forecast of Outbound Shipments of Coal in Thousands of Tons .....	5
E.1.12	Forecast of Inbound Shipments of Coal in Thousands of Tons .....	5
E.1.13	Forecast of Outbound Primary Metal Products in Thousands of Tons .....	6
E.1.14	Forecast of Inbound Primary Metal Products in Thousands of Tons .....	6
E.1.15	Forecast of In-State Primary Metal Products in Thousands of Tons .....	6
E.1.16	Trend in Illinois Corn Production (USDA).....	6
E.1.17	Trend in Illinois Soybean Production (USDA).....	7
E.1.18	Illinois Corn and Soybean Export Trends (USDA).....	7
E.1.19	Illinois Coal Production Trend (USEIA).....	7
E.1.20	IL Fabricated Metal Products Output Trend (US Dept. of Commerce) .....	7
E.1.21	Comparison of Data Sources .....	8
E.1.22	Comparison of FAF Volume and Value .....	8
E.1.23	Illinois-Bound Imports: By Port of Unlading/Import (thousands of Tons) .....	8





## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1 ECONOMIC IMPACT DATA

The data within this appendix is for figures in Chapter 4. It is important to note that not all the data from figures in Chapter 4 is represented in this appendix. Some of the figures were pulled from federal reports which did not provide raw data.

#### E.1.1 2017 VOLUME BY DIRECTION AND WATERWAY IN THOUSANDS OF TONS

	Chicago Region	Illinois River	Kaskaskia River	Mississippi River	Ohio River	Other/NEC	Total	Percentage
Outbound	4,822	18,560	599	21,206	11,349	5,578	62,114	69%
Inbound	7,891	5,815	786	3,036	112	2,433	20,073	22%
In-State	4,903	1,699	0	348	150	1,274	8,374	9%
Total	17,616	26,074	1,385	24,590	11,611	9,285	90,561	100%

#### E.1.2 2045 FORECAST GROWTH BY DIRECTION IN THOUSANDS OF TONS

Forecast Growth by Direction	Tonnage	Percentage Growth
In-State 2017	8,374	
In-State 2045	10,000	19%
Inbound 2017	20,073	
Inbound 2045	28,568	42%
Outbound 2017	62,114	
Outbound 2045	56,142	-10%
Total 2017	90,561	
Total 2045	94,710	5%





## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1.3 IMTS COMMODITY FORECAST

Waterway	Tons 2017	% of State	Tons 2045	% of State	Growth	Change
Chicago Region	17,616	19%	24,083	25%	6,467	37%
Illinois River	26,074	29%	28,650	30%	2,576	10%
Kaskaskia River	1,385	2%	1,604	2%	219	16%
Mississippi River	24,590	27%	23,023	24%	-1,567	-6%
Ohio River	11,611	13%	8,065	9%	-3,546	-31%
Other/NEC	9,285	10%	9,285	10%	0	0%
<b>Total</b>	<b>90,561</b>	<b>100%</b>	<b>94,710</b>	<b>100%</b>	<b>4,149</b>	<b>5%</b>

### E.1.4 2045 VOLUME BY DIRECTION AND WATERWAY IN THOUSANDS OF TONS

	Chicago Region	Illinois River	Kaskaskia River	Mississippi River	Ohio River	Other/NEC	Total	Percentage
Outbound	5,206	18,681	636	18,218	7,823	5,578	56,142	59%
Inbound	11,721	8,836	968	4,474	136	2,433	28,568	30%
In-State	7,156	1,133	0	331	106	1,274	10,000	11%
<b>Total</b>	<b>24,083</b>	<b>28,650</b>	<b>1,604</b>	<b>23,023</b>	<b>8,065</b>	<b>9,285</b>	<b>94,710</b>	<b>100%</b>





## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1.5 OUTBOUND COMMODITY SHIPMENTS IN 2017 IN THOUSANDS OF TONS

Commodity	Tonnage
Wood Products	0
Manufactured Products	0
Non-Ferrous Ores and Scrap	45
Chemical Fertilizers	297
Primary Non-Metal Products	311
Primary Metal Products	463
Iron Ore, Iron, and Steel Waste and Scrap	706
Crude Petroleum	953
Sand, Gravel, Shells, Clay, Salt, and Slag	1,167
Chemicals excl Fertilizers	2,624
Petroleum Products	5,417
Not Elsewhere Classified	5,628
Coal, Lignite and Coal Coke	9,936
Food and Food Products	34,567

### E.1.6 INBOUND COMMODITY SHIPMENTS IN 2017 IN THOUSANDS OF TONS

Commodity	Tonnage
Crude Petroleum	0
Manufactured Products	4
Coal, Lignite and Coal Coke	46
Non-Ferrous Ores and Scrap	178
Wood Products	230
Iron Ore, Iron, and Steel Waste and Scrap	349
Food and Food Products	479
Primary Non-Metal Products	1,815
Chemicals excl Fertilizers	1,837
NEC	2,551
Petroleum Products	2,768
Sand, Gravel, Shells, Clay, Salt, and Slag	3,210
Chemical Fertilizers	3,285
Primary Metal Products	3,322





## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1.7 IN-STATE COMMODITY SHIPMENTS IN 2017 IN THOUSANDS OF TONS

Commodity	Tonnage
Manufactured Products	0
Food and Food Products	1
Chemical Fertilizers	183
Iron Ore, Iron, and Steel Waste and Scrap	270
Chemicals excl Fertilizers	363
Petroleum Products	897
Coal, Lignite and Coal Coke	990
Primary Metal Products	1,105
NEC	1,274
Sand, Gravel, Shells, Clay, Salt, and Slag	3,291

### E.1.8 FORECAST OF OUTBOUND SHIPMENTS OF FOOD IN MILLIONS OF TONS

2017	2020	2025	2030	2035	2040	2045
34,567,047	34,720,905	34,621,112	34,753,270	34,779,280	35,585,065	36,008,759

### E.1.9 FORECAST OF OUTBOUND CORN AND SOYBEAN SHIPMENTS IN MILLIONS OF TONS

Year	2017	2020	2025	2030	2035	2040	2045
Corn Tonnage	17,008,149	17,143,166	17,176,308	17,505,790	17,813,973	18,272,087	18,277,240
Soybean Tonnage	4,813,791	4,741,850	4,606,346	4,746,271	4,749,823	4,859,869	4,917,733

### E.1.10 FORECAST OF INBOUND SHIPMENTS OF FOOD IN THOUSANDS OF TONS

2017	2020	2025	2030	2035	2040	2045
478,813	515,156	582,107	658,705	709,266	778,197	840,998

### E.1.11 FORECAST OF OUTBOUND SHIPMENTS OF COAL IN THOUSANDS OF TONS

2017	2020	2025	2030	2035	2040	2045
9,935,858	9,085,870	6,968,478	4,993,447	4,018,264	3,198,306	2,608,589

### E.1.12 FORECAST OF INBOUND SHIPMENTS OF COAL IN THOUSANDS OF TONS

2017	2020	2025	2030	2035	2040	2045
45,872	41,885	31,366	23,487	18,884	14,994	11,545





## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1.13 FORECAST OF OUTBOUND PRIMARY METAL PRODUCTS IN THOUSANDS OF TONS

2017	2020	2025	2030	2035	2040	2045
311,354	348,166	398,700	454,413	519,859	602,463	691,197

### E.1.14 FORECAST OF INBOUND PRIMARY METAL PRODUCTS IN THOUSANDS OF TONS

2017	2020	2025	2030	2035	2040	2045
3,321,581	3,524,376	3,824,635	4,128,559	4,464,789	4,881,107	5,317,514

### E.1.15 FORECAST OF IN-STATE PRIMARY METAL PRODUCTS IN THOUSANDS OF TONS

2017	2020	2025	2030	2035	2040	2045
1,105,068	1,235,721	1,415,081	1,612,819	1,845,099	2,138,283	2,453,221

### E.1.16 TREND IN ILLINOIS CORN PRODUCTION (USDA)

Year	Million Bushels
2009	2,053
2010	1,947
2011	1,939
2012	1,286
2013	2,100
2014	2,350
2015	2,013
2016	2,256
2017	2,201
2018	2,279





## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1.17 TREND IN ILLINOIS SOYBEAN PRODUCTION (USDA)

Year	Million Bushels
2009	430
2010	466
2011	423
2012	384
2013	474
2014	547
2015	544
2016	593
2017	612
2018	699

### E.1.18 ILLINOIS CORN AND SOYBEAN EXPORT TRENDS (USDA)

	2014	2015	2016	2017	2018
Corn	\$ 1,820	\$ 1,336	\$ 1,565	\$ 1,413	\$ 2,003
Soybeans	\$ 3,549	\$ 2,709	\$ 3,120	\$ 3,032	\$ 2,581

### E.1.19 ILLINOIS COAL PRODUCTION TREND (USEIA)

Year	Tonnage (000)
2010	33,241
2011	37,770
2012	48,486
2013	52,147
2014	57,969
2015	56,101
2016	43,422
2017	48,204
2018	49,563

### E.1.20 IL FABRICATED METAL PRODUCTS OUTPUT TREND (US DEPT. OF COMMERCE)

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
\$ 9,685	\$ 9,108	\$ 8,305	\$ 8,590	\$ 8,901	\$ 9,584	\$ 9,441	\$ 9,398	\$ 9,919	\$ 9,807	\$ 10,098







## ILLINOIS MARINE TRANSPORTATION SYSTEM PLAN

### E.1.21 COMPARISON OF DATA SOURCES

	FAF		WCSC	
	Tonnage ('000s)	Value (\$M)	Tonnage ('000s)	Value (\$M)
Internal	4,571	555	7,101	25,418
Inbound	6,657	13,413	17,637	38,576
Outbound	19,543	7,111	56,558	19,618
Total	30,771	21,079	81,296	83,612

### E.1.22 COMPARISON OF FAF VOLUME AND VALUE

	Value of Goods Shipped (\$M)	Thousands of Tons
	Export	413.0
Import	12,118.9	2,516.2
Inbound	1,294.0	4,140.5
Internal	554.6	4,571.0
Outbound	6,698.2	19,309.5

### E.1.23 ILLINOIS-BOUND IMPORTS: BY PORT OF UNLADING/IMPORT (THOUSANDS OF TONS)

	Mobile, Ala.	Los Angeles, Calif	Newark, N.J.	Gramercy, La.	Morgan City, La.	Chicago, Illinois	Long Beach, Calif.	New Orleans, La.	Norfolk, Va.	Philadelphia, Pa.	Tacoma, Wash.
Port of Unlading	2887.948	2088.421	2056.036	1996.013	1737.451	1148.014	1045.134	998.7675	952.9572	692.1887	564.6376
Port of Entry	2888.02	825.2749	1071.883	1996.013	1737.448	5556.112	1.45875	951.0074	315.5305	659.5569	146.3809

