

# Crawford, Iowa, Richland & Vernon County LEPCs

## HAZARDOUS MATERIALS COMMODITY FLOW STUDY

September, 2012



# HAZARDOUS MATERIALS COOPERATIVE RESEARCH PROGRAM

The safety, security, and environmental concerns associated with transportation of hazardous materials are growing in number and complexity. Hazardous materials are substances that are flammable, explosive, or toxic or that, if released, produce effects that would threaten human safety, health, the environment, or property. Hazardous materials are moved throughout the country by all modes of freight transportation, including ships, trucks, trains, airplanes, and pipelines.

The private sector and a diverse mix of government agencies at all levels are responsible for controlling the transport of hazardous materials and for ensuring that hazardous cargoes move without incident. This shared goal has spurred the creation of several venues for organizations with related interests to work together in preventing and responding to hazardous materials incidents. The freight transportation and chemical industries; government regulatory and enforcement agencies at the federal and state levels; and local emergency planners and responders routinely share information, resources, and expertise. Nevertheless, there has been a longstanding gap in the system for conducting hazardous materials safety and security research. Industry organizations and government agencies have their own research programs to support their mission needs. Collaborative research to address shared problems takes place occasionally, but mostly occurs on an ad hoc basis.

Acknowledging this gap in 2004, the U.S. DOT Office of Hazardous Materials Safety, the Federal Motor Carrier Safety Administration, the Federal Railroad Administration, and the U.S. Coast Guard pooled their resources for a study. Under the auspices of the Transportation Research Board (TRB), the National Research Council of the National Academies appointed a committee to examine the feasibility of creating a cooperative research program for hazardous materials transportation, similar in concept to the National Cooperative Highway Research Program (NCHRP) and the Transit Cooperative Research Program (TCRP). The committee concluded, in TRB Special Report 283: Cooperative Research for Hazardous Materials Transportation: Defining the Need, Converging on Solutions, that the need for cooperative research in this field is significant and growing, and the committee recommended establishing an ongoing program of cooperative research. In 2005, based in part on the findings of that report, the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) authorized the Pipeline and Hazardous Materials Safety Administration (PHMSA) to contract with the National Academy of Sciences to conduct the Hazardous Materials Cooperative Research Program (HMCRP). The HMCRP is intended to complement other U.S. DOT research programs as a stakeholder-driven, problem-solving program, researching real-world, day-to-day operational issues with near- to midterm time frames.

***Prepared by the Richland County Local Emergency Planning Committee (LEPC) with the technical assistance of JT Heinen Global Consulting.***

***Funding assistance was provided by the U. S. Department of Transportation, Hazardous Materials Emergency Preparedness (HMEP) Planning Sub-Grant administered by Wisconsin Emergency Management.***

This Four-County 2012 Hazardous Materials Commodity Flow  
Study was administered and conducted by the:

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## EXECUTIVE SUMMARY

The Richland County LEPC, in conjunction with Crawford, Vernon and Iowa County LEPC's, has identified the need to conduct a study of the flow of all commodities through, on, in and around each county's roads, rivers, airports, pipelines and railways. Hazardous materials interspersed in the medium of total commodity flow can and do pose a significant risk to large segments of the population. Similarly, they can cause extensive damage to property, facilities and critical infrastructure. Knowing what they are and where they are at any given time greatly enhances community planning and preparedness. Minor and catastrophic accidental and routine releases of hazardous materials occur on a daily basis throughout the United States. The potential for deliberate releases added to this, emphasizes the necessity of ongoing HazMat emergency planning and preparedness. The Superfund Amendments and Reauthorization Act (SARA) of 1986 requires the collection and analysis of key hazardous materials data from all potential release sources within a jurisdiction; pre-planning for emergency (whether accidental or intentional) releases is also contained in the provisions. Historically, most planning efforts involved chemical use, storage and manufacture at fixed facilities nationwide. However, the vast majority of accidental chemical spills and releases do not occur at a fixed facility. Transportation of hazardous materials presents the greatest potential danger to the public in terms of an accidental release. While fixed facilities implement emergency procedures and costly mitigation efforts to achieve regulatory compliance to gain a significant risk reduction benefit to themselves and the public at large, transporting hazardous materials over highways and railroads and through pipelines and airspace, continues to present a staggering array of potential dangers which are extremely difficult anticipate, plan for and mitigate in their entirety. Experience demonstrates the best approach to any hazardous materials release is prior knowledge regarding the nature of the chemicals involved and pre-planning for safety precautions and equipment necessary to respond to these releases. To adequately plan for transportation accidents, planners need to identify the chemicals in transit through their county.

This is first and foremost, a **Research Document**, intended to be used as a primer for In-Depth situational fact-finding pertinent to a particular mitigation interest. Understanding that hazardous materials present an immediate *3-Point Array of Dangers* upon release, astute planners will best use the information in this research study as a reference to help offset those dangers – namely:

- 1) Contact: What happens when the substance touches a surface or living tissue?
- 2) Reaction: What happens when the substance mixes or comes into contact with other substances?
- 3) Fire: What happens when the substance is near or in a fire?

Hazardous materials flow patterns throughout this study were assumed to be one or a combination of following: Destined To a facility, Shipped From a facility or Pass-Thru.

## Methodology

### **EPCRA Tier II Facility Plan Review**

- 1) Perform a thorough database search on all Tier II planning and reporting facilities for each county.
- 2) Compile a list of all the planning/reporting facilities in each county along with relevant chemical inventory and geographic location.
- 3) Analyze quantities, mode of transportation and contribution to commodity flow patterns.

### **Regional Mapping**

- 1) Obtain general and modality maps for each county.
- 2) Identify the primary infrastructure on the base-maps: highway, waterway, rail, air and pipeline.
- 3) Arrange and highlight maps by mode of transportation and county.
- 4) Set the maps up to bridge to CAMEO/MARPLOT for later mitigation planning.

### **HAZMAT Movement and Inventory**

- 1) Highway, Rail & Air: Create strategic observation-point system based on commodity type, amount and receiving facility locations.
- 2) Go to observation points and collect data in time cycles that coincide with typical / representative product flow.
- 3) Observe Mississippi River commodity flow independently and track load & unload points.
- 4) Enter data points into a matrix designed for tracking and analyzing the information according to time, place, amount, type of material, hazard, mode and route of travel.
- 5) Acquire seasonal information from shipper/suppliers and facilities where applicable and available.

## Presentation of Observations & Study Findings

The research and analysis turned out to be fundamentally and significantly different for each of the different modes of transportation. Therefore, the best way to present the volume, diversity and technicality of all the information was to divide it up by mode and then for each mode, separate it into county-specific details. To embrace the spirit of the research findings, **Section 1** starts the report with statistics and analysis related to crashes and spills. The rest of the report is laid out to facilitate the rapid finding of particular pieces of information that will best suit the planning efforts needed for each kind of hazard based on its location/area.

# SECTION 1: SPILL & CRASH STATISTICS

## Discussion

In this Section, a number of spill summary and crash statistics data tables are presented with graphs and charts. For spills specific to modality, time and substance, since the consultation process requires structured queries that return enormous amounts of data, most of the corresponding analysis was left in spreadsheets that can be found in the “Spills\_Crashes” subdirectory on the DVD. Also, in the Resources Appendix, links to other agencies can be found through which additional, detailed analysis can be done.

Mentioned elsewhere throughout this study, either explicitly or implicitly, are various kinds of vehicle crash statistics. A parsing of the primary causative factors along with the types and numbers of vehicles involved produced a couple of “WISCONSIN TRAFFIC CRASH FACTS” tables that very clearly illustrate relative risks associated with each class of truck on the road today. Those will be presented a little bit later on in this Section. As was pointed out in Section 6, utility trucks and vans have a disproportionately high involvement in crashes. Bear that in mind as you consider the significance of what might otherwise be considered an ‘under the radar’ load.

But first, let’s start out with some brilliant research put together by the Wisconsin Division of Public Health:

<b>Spills Data From The WI National Toxic Substance Incidents Program (NTSIP)</b>				
<b>Hazmat Spills Data for the Period: Calendar Year 1993 through Calendar Year 2011</b>				
		<b>Sum</b>		
		<b>Events</b>	<b>Victims</b>	<b>Evacuees</b>
<u>Type of Event</u>	<u>County of Event</u>			
<b>FIXED</b>	<b>CRAWFORD</b>	24	5	51
	<b>IOWA</b>	17	1	0
	<b>RICHLAND</b>	13	8	847
	<b>VERNON</b>	9	10	895
<b>TRANSPORTATION</b>	<b>CRAWFORD</b>	14	0	0
	<b>IOWA</b>	21	0	0
	<b>RICHLAND</b>	9	0	0
	<b>VERNON</b>	17	1	20
<b>Grand Totals: Fixed &amp; Trans Events</b>		<b>124</b>	<b>25</b>	<b>1813</b>

# HAZARDOUS SUBSTANCES EMERGENCY EVENTS SURVEILLANCE (HSEES) SEVENTEEN-YEAR PERIOD: JANUARY 1, 1993 THROUGH DECEMBER 31, 2009

## TOTAL WISCONSIN EVENTS

The number of events meeting the surveillance definition of the Hazardous Substances

Emergency Events Surveillance System during this 17-year period totaled **6,755**

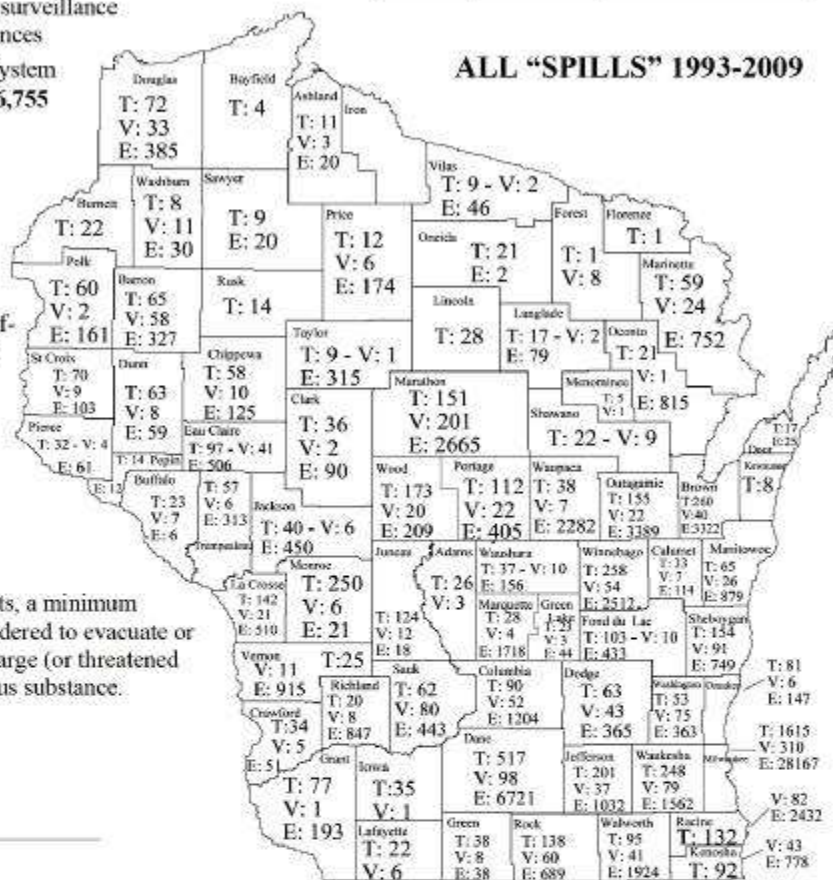
## EVENTS, VICTIMS, AND EVACUEES\*

## EVENTS WITH VICTIMS

Of the 6,755 total events, **476** events resulted in a total of **1,859** victims, with each person suffering at least one verifiable injury resulting from exposure to a hazardous substance.

## EVENTS WITH EVACUEES\*

During **716** of the 6,755 total events, a minimum total of **72,174** individuals were ordered to evacuate or self-evacuated following the discharge (or threatened discharge) of one or more hazardous substance.



## ABBREVIATION KEY: MAP

T: TOTAL EVENTS

V: INDIVIDUAL VICTIMS

E: EVACUEES\*

\*(Persons ordered and self-evacuated)

## SUMMARY OF HAZARDOUS SUBSTANCES EMERGENCY EVENTS IN WISCONSIN BY CALENDAR YEAR

YEAR	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Cum. Totals
EVNT	350	398	408	331	350	423	507	478	508	537	410	428	346	367	324	298	292	6,755
VICT	61	77	71	92	125	174	159	137	144	154	87	55	39	81	73	145	185	1,859
EVAC	1,640	932	2,109	5,347	5,146	7,552	7,168	3,918	2,883	3,797	822	1,788	2,143	1,031	6,399	2,145	17,354	72,174

Report prepared by the Division of Public Health, Wisconsin Department of Health Services, with funds from the CERCLA trust fund, and the Office of Terrorism Planning and Emergency Response of the CDC, and provided by the Agency for Toxic Substances and Disease Registry (ATSDR), Public Health Service, US DHHS under Cooperative Agreement Number T509-90502CONT10. Contact James Drew, WISNIP/HSEES Program Coordinator. Phone: (608) 266-2663. E-mail: james.drew@wi.gov. WI HSEES Web Site: <http://dhhs.wisconsin.gov/eh/HSEES/>

PPH 45085 (Rev. 09/10)



# HAZARDOUS SUBSTANCES EMERGENCY EVENTS SURVEILLANCE (HSEES) SEVENTEEN-YEAR PERIOD: JANUARY 1, 1993 THROUGH DECEMBER 31, 2009

## TOTAL AMMONIA EVENTS

The number of ammonia events meeting the surveillance definition of the HSEES System during this 17-year period totaled **768** (11% of total events).

## AMMONIA EVENTS WITH VICTIMS

Of the 768 total ammonia events, **108** events resulted in a total of **302** victims (16% of total victims), with each person suffering at least one verifiable injury resulting from exposure to ammonia.

## AMMONIA EVENTS WITH EVACUEES\*

During **186** of the 768 total ammonia events, a minimum total of **24,636** individuals (35% of total evacuees) were ordered to evacuate, or self-evacuated following a release (or threatened release) of ammonia.

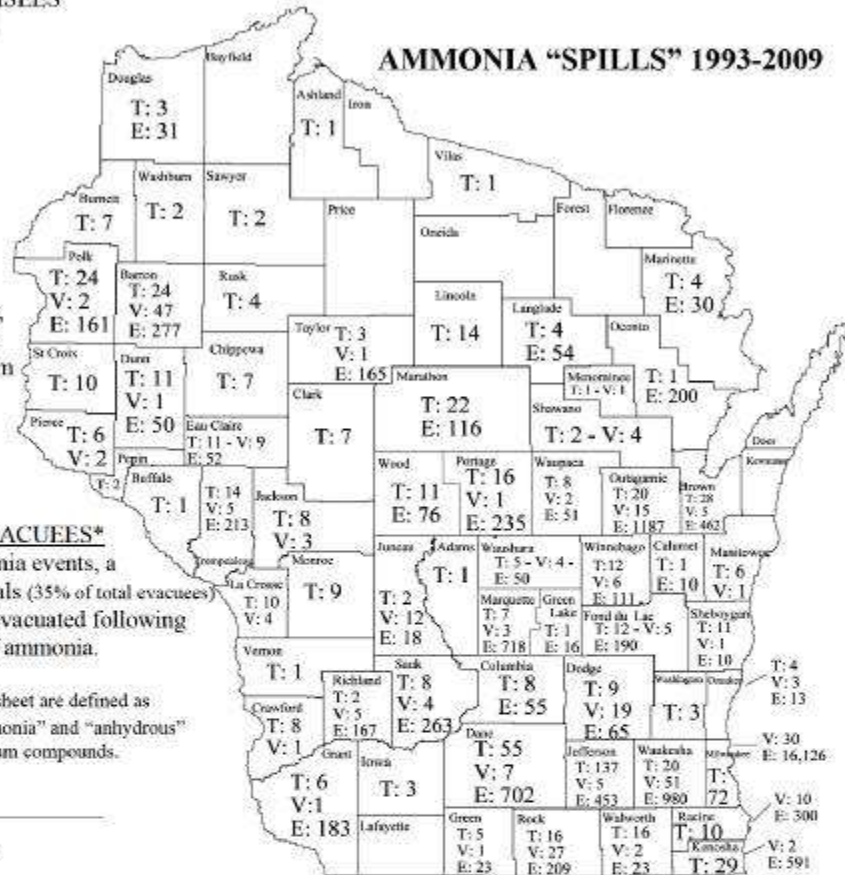
Note: Total Ammonia Events in this fact sheet are defined as only those including the descriptors "ammonia" and "anhydrous" and do not include, for example, ammonium compounds.

## ABBREVIATION KEY: MAP

T: TOTAL AMMONIA EVENTS  
V: AMMONIA VICTIMS  
E: AMMONIA EVACUEES

\* (Persons ordered and self-evacuated)

## EVENTS, VICTIMS AND EVACUEES\*





The Wisconsin Department of Natural Resources similarly studied all spills in the State and generated the following summaries:



## Hazardous Substance Spills In Wisconsin

RR-604

February, 2010

Hazardous substances play important roles in our everyday quality of life – from the natural gas that heats our home, to the fertilizer that keeps our lawn green. When a discharge or spill of a hazardous substance occurs, there is a potential danger to the public and the environment. In most instances, hazardous substance spills must be reported immediately to the Wisconsin Department of Natural Resources (DNR) using the DNR's 24-hour toll-free hotline at 1-800-943-0003. Most of these spills require cleanup to protect public health and the environment. For more information on the spills program, visit the DNR Remediation and Redevelopment (RR) Program web site at <http://dnr.wi.gov/org/aw/rr/spills/index.htm>.

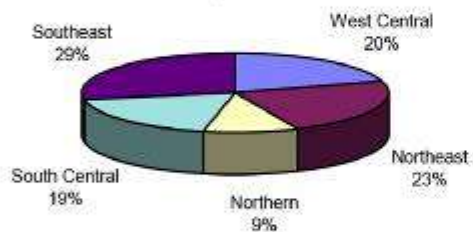
### Where Are The Most Spills In Wisconsin?

Wisconsin averages 1,000 spills of hazardous substances every year. The majority of these spills occur in the most populated areas of the state. Twenty-nine percent of all spills occur in the southeast part of Wisconsin where the population is heaviest, while only 9 % of all spills occur in the less-populated northern part of the state (please see chart below).

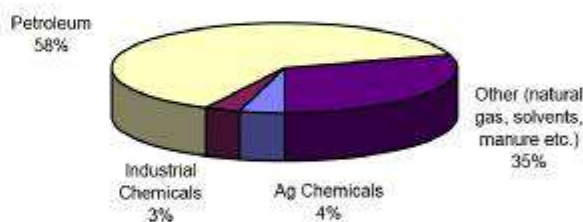
### What Substances Are Spilled Most Often?

The most commonly used substance is petroleum to fuel vehicles or heat homes; therefore it has the most potential to be spilled. Petroleum-related spills account for nearly 58% of all spills in Wisconsin annually. Other substances spilled include natural gas, solvents, manure and industrial chemicals.

Location Of Spills In Wisconsin

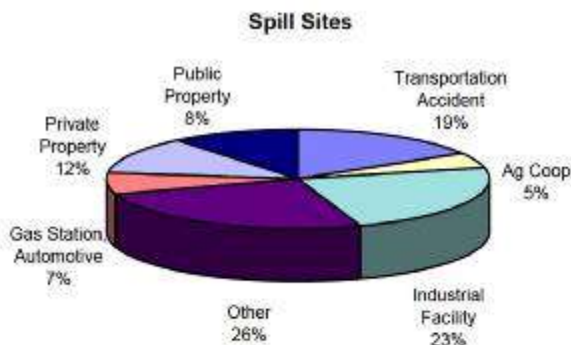


Types Of Substances Spilled



Wisconsin Department of Natural Resources  
P.O. Box 7921, Madison, WI 53707  
<http://dnr.wi.gov/org/aw/rr>





### Where Do Most Spills Occur?

The majority of hazardous substance spills – 49% – occur at industrial-related facilities, automotive-related facilities or on the roadway. Spills at private properties account for nearly 12% of all spills.

### How Do Spills Impact The Environment?

More than 14% of spills each year in Wisconsin are contained and/or recovered before they impact the environment. The remaining spills can impact the environment and/or public health through the contamination of air, soil, and water.

Surface water spills account for more than 15%, while spills to groundwater occur more than 7% of the time. Spills that impact groundwater are investigated further and remediated as necessary.

### Wisconsin DNR Spill Coordinators

Wisconsin DNR spill coordinators respond to a wide variety of hazardous substance releases, from agricultural manure spills to train car accidents and chemical fires. Spill coordinators work with local fire departments and hazardous materials teams to coordinate response and clean-up activities. The general public is also encouraged to contact a DNR spill coordinator (through the DNR's Remediation and Redevelopment Program number listed below) if they have any questions about a release or potential release in their communities.

#### Northeast Region

Spill Coordinator Jason Moeller (Green Bay)  
920-662-5492

#### Northern Region

Spill Coordinator John Sager (Rhineland)  
715-365-8959

#### Southeast Region

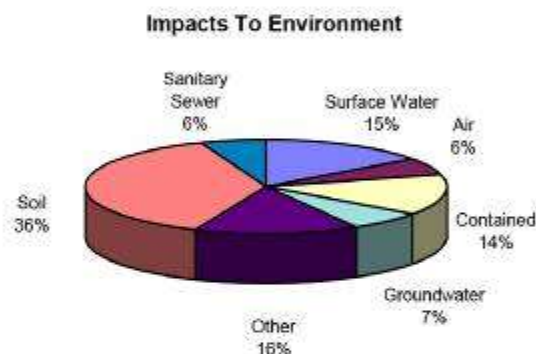
Spill Coordinator Scott Ferguson (Milwaukee)  
414-263-8685

#### South Central Region

Spill Coordinator Mike Schmoller (Madison)  
608-275-3303

#### West Central Region

Spill Coordinator Thomas Kendzierski (Eau Claire)  
715-839-1604



This document contains information about certain state statutes and administrative rules but does not necessarily include all of the details found in the statutes and rules. Readers should consult the actual language of the statutes and rules to answer specific questions. The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240. This publication is available in alternative format upon request. Please call 608-267-3543 for more information.



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## Units Involved in Crashes by Vehicle Type and Crash Severity

Type of Vehicle	Crash Severity			Total	Percent of Total
	Fatal	Injury	Property Damage		
Passenger car	525	40,862	91,622	133,009	74.0%
Utility truck	125	6,206	15,831	22,162	12.3%
Truck tractor (semi attached)	38	675	2,474	3,187	1.8%
Straight truck (insert truck)	17	791	2,343	3,151	1.8%
Motorcycle	102	2,017	376	2,495	1.4%
Bicycle	10	980	62	1,052	0.6%
Pupil transportation / school bus	2	139	399	540	0.3%
Passenger bus	2	120	305	427	0.2%
Snow plow	1	45	263	309	0.2%
Moped	6	248	29	283	0.2%
Farm tractor / self propelled	1	77	112	190	0.1%
Police on emergency	1	59	108	168	0.1%
Truck tractor (not attached)	0	19	79	98	0.1%
Other working machine	1	26	70	97	0.1%
Motor home	0	12	60	72	0.0%
Truck tractor (double bottom)	0	22	49	71	0.0%
Miscellaneous	1	31	28	60	0.0%
Snow mobile or all terrain vehicle	5	35	9	49	0.0%
Railway train	0	12	14	26	0.0%
Fire truck on emergency	0	2	21	23	0.0%
Fire fighter on emergency	0	8	11	19	0.0%
Ambulance on emergency	0	5	13	18	0.0%
Pedestrian	0	2	0	2	0.0%
Unknown	0	150	12,158	12,308	6.8%
<b>TOTAL UNITS</b>	<b>837</b>	<b>52,543</b>	<b>126,436</b>	<b>179,816</b>	<b>100.0%</b>

This report counts all units in reportable crashes (see page 2 of this book) except pedestrians. These numbers do not represent crashes. Because only units that have collided with a motor vehicle on a public roadway are included, this report does not accurately reflect the volume of bicycle, all-terrain vehicle, or snowmobile crashes in Wisconsin or even on Wisconsin public roads. A *fire fighter on emergency* is a fire fighter or emergency medical technician / first responder (paid or volunteer) who is responding to an emergency summons using a vehicle not owned by a fire fighting or emergency agency.



## Vehicles in Crashes by Plate Type and Crash Severity

License Plate Type	Crash Severity			TOTAL		License Plate Type	Crash Severity			TOTAL
	Fatal	Injury	Property Damage				Fatal	Injury	Property Damage	
Automobile	474	37,480	87,154	125,108		Mil. Brewer M Logo	0	7	22	29
Light Truck	106	5,673	15,143	20,922		Support Veterans	0	7	20	27
Sesquicentennial	21	1,147	2,729	3,897		Collector Cycle	3	21	2	26
Heavy Truck	16	701	2,033	2,750		Generic (Lao Freemason)	0	5	20	25
Apportioned Vehicle	32	570	2,108	2,710		Hobbyist	0	4	12	16
Cycle	98	1,984	346	2,428		Lac Du Flambeau Tribe	0	6	10	16
Disabled	8	471	783	1,262		Ex Prisoner of War	0	3	13	16
Municipal	3	265	936	1,204		Wisconsin National Guard	0	5	10	15
Temporary Plate	1	301	554	856		Endangered Resources	0	3	10	13
Tractor	4	152	494	650		Marquette University	0	4	8	12
Municipal Official	2	145	489	636		Bad River Band Tribe	0	4	7	11
Bus	3	157	453	613		Donate Life	0	2	9	11
Farm	12	157	441	610		Special X	0	1	9	10
Military Group	1	105	326	432		Women's Health	0	2	8	10
Packer	3	101	267	371		Support Golf	0	4	5	9
Endangered Resources	1	97	247	345		Gold Star Family	0	4	4	8
Fire Rescue	0	66	204	270		US Vet Cycle	0	5	3	8
Dealer New or Used	0	78	191	269		Municipal Cycle	0	6	0	6
Moped	6	192	21	219		Dealer Manufacturer	0	1	4	5
Human Service Vehicle	0	71	110	181		Dealer Demo Truck/Tractor	0	0	4	4
Collector	5	48	114	167		Antique	0	1	2	3
Celebrate Children	1	46	120	167		Cycle Disabled	0	3	0	3
Civilian Group	1	48	117	166		Dealer Cycle	0	2	1	3
Higher Education Madison	0	47	105	152		State Patrol	0	0	3	3
State Owned Vehicle	2	22	78	102		ABC Annual Truck	0	1	1	2
Disabled Vet	0	34	51	85		Dealer Transporter	0	0	2	2
Amateur Radio	0	26	52	78		Hobbyist Cycle	0	0	1	1
U. S. Government	0	18	58	76		Historic Military Vehicle	0	0	1	1
Oneida Tribe	0	20	45	65		Light Trailer	0	0	1	1
Motor Home	0	10	52	62		Dealer Cycle	0	1	0	1
Collector Special	0	22	36	58		Medal of Honor	0	1	0	1
Mil. Brewer Ball & Glove	0	16	33	49		Insert Truck	0	0	1	1
Farm - Heavy Truck	0	13	33	46		Trailer	0	0	1	1
Higher Education Group	0	18	26	44		Dealer Distribution Manufacturer	0	1	0	1
Ducks Unlimited	0	13	24	37		Unknown	33	2,112	10,251	12,396
Menominee Tribe	1	13	18	32		TOTAL	837	52,543	126,436	179,816

This report counts vehicles with license plates in crashes, not crashes. Many of the unknown plate types are a result of hit and run crashes. License plates for vehicles registered outside Wisconsin are distributed among all the plate types. Plate types with fewer than five crashes per plate type are excluded from this report.

The previous two data tables illustrate how significant the Utility Truck issue really is. There are several PDFs on the DVD that go into great depth about Motor Vehicle crashes, causes and relative levels of injury and damage. Here are a few more Tables that discuss Crashes and HazMats:




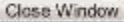
 U.S. Department of Transportation Federal Motor Carrier Safety Administration						
						
 Send to Printer						
Table 50. Large Trucks in Crashes by Hazardous Materials (HM) Cargo, 2009						
HM Cargo	Fatal		Injury		Towaway	
	Number	Percent	Number	Percent	Number	Percent
Yes	105	3.4%	1,015	2.4%	1,349	2.1%
No	3,107	96.6%	27,530	64.3%	37,802	58.4%
Unknown	0	0.0%	14,252	33.3%	25,534	39.5%
Total	3,215	100.0%	42,797	100.0%	64,685	100.0%
Notes: For fatal crashes, a large truck is defined as a truck with a gross vehicle weight rating (GVWR) of more than 10,000 pounds. For injury and towaway crashes, a large truck is defined here as a truck, used for commercial purposes, with a gross vehicle weight rating (GVWR) or gross combination weight rating greater than 10,000 pounds. Injury crashes are defined here as crashes that resulted in at least one injury involving immediate medical attention away from the crash scene. (Note that this definition of an injury crash is not the same as that used in the GES injury estimates presented in other tables of this report.) Towaway crashes are defined here as crashes in which at least one vehicle was disabled as a result of the crash and transported away from the crash scene.						
Sources: Fatal Crashes: National Highway Traffic Safety Administration, Fatality Analysis Reporting System (FARS); Injury and Towaway Crashes: Federal Motor Carrier Safety Administration, MCMIS Crash File.						
						
Find this page at: <a href="http://www.fmcsa.dot.gov/facts-research/LTBCF2009/tbl50.htm">http://www.fmcsa.dot.gov/facts-research/LTBCF2009/tbl50.htm</a>						
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Table 4. Large Truck Fatal Crash Statistics, 1975-2009

Year	Fatal Crashes	Vehicles Involved	Occupant Fatalities	Total Fatalities	Million Vehicle Miles Traveled	Fatal Crashes per 100 Million Vehicle Miles Traveled	Vehicles Involved in Fatal Crashes per 100 Million Vehicle Miles Traveled	Fatalities per 100 Million Vehicle Miles Traveled	Large Trucks Registered
1975	3,722	3,977	961	4,483	81,330	4.58	4.89	5.51	5,362,309
1976	4,184	4,435	1,132	5,008	86,070	4.86	5.15	5.82	5,575,185
1977	4,843	5,164	1,287	5,723	95,021	5.10	5.43	6.02	5,689,903
1978	5,405	5,759	1,395	6,356	105,739	5.11	5.45	6.01	5,859,807
1979	5,684	6,084	1,432	6,702	109,004	5.21	5.56	6.15	5,891,571
1980	5,042	5,379	1,262	5,971	108,491	4.65	4.96	5.50	5,790,653
1981	4,928	5,230	1,133	5,806	108,702	4.53	4.81	5.34	5,716,278
1982	4,395	4,616	944	5,229	111,423	3.95	4.17	4.69	5,590,415
1983	4,615	4,877	982	5,491	116,132	3.97	4.20	4.73	5,508,392
1984	4,831	5,124	1,074	5,640	121,796	3.97	4.21	4.63	5,401,075
1985	4,841	5,153	977	5,734	123,504	3.92	4.17	4.64	5,996,337
1986	4,765	5,097	926	5,579	126,675	3.78	4.02	4.40	5,720,880
1987	4,813	5,108	952	5,598	133,517	3.60	3.83	4.19	5,718,206
1988	4,885	5,241	911	5,679	137,985	3.54	3.80	4.12	6,136,864
1989	4,674	4,984	958	5,490	142,749	3.27	3.49	3.95	6,226,482
1990	4,518	4,776	705	5,272	146,242	3.09	3.27	3.60	6,195,876
1991	4,097	4,347	661	4,821	149,543	2.74	2.91	3.22	6,172,146
1992	3,825	4,035	585	4,462	153,384	2.49	2.63	2.91	6,045,205
1993	4,101	4,328	605	4,856	159,888	2.56	2.71	3.04	6,088,155
1994	4,373	4,644	670	5,144	170,216	2.57	2.73	3.02	6,587,895
1995	4,194	4,472	648	4,916	178,156	2.35	2.51	2.76	6,719,421
1996	4,413	4,755	621	5,142	182,971	2.41	2.60	2.81	7,012,615
1997	4,614	4,917	723	5,398	191,477	2.41	2.57	2.82	7,083,326
1998	4,579	4,955	742	5,395	196,380	2.33	2.52	2.75	7,732,270
1999	4,560	4,920	759	5,380	202,668	2.25	2.43	2.65	7,791,426
2000	4,573	4,995	754	5,282	205,520	2.23	2.43	2.57	8,022,649
2001	4,451	4,823	708	5,111	208,928	2.13	2.31	2.45	7,957,675

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2002	4,224	4,587	689	4,939	214,603	1.97	2.14	2.30	7,927,280
2003	4,335	4,721	726	5,036	217,876	1.99	2.17	2.31	7,756,888
2004	4,478	4,902	766	5,235	220,811	2.03	2.22	2.37	8,171,364
2005	4,551	4,951	804	5,240	222,523	2.05	2.22	2.35	8,481,999
2006	4,350	4,766	805	5,027	222,513	1.95	2.14	2.28	8,619,007
2007	4,204	4,633	805	4,822	304,178	1.38	1.52	1.59	10,752,019
2008	3,754	4,089	682	4,245	310,680	1.21	1.32	1.37	10,973,275
2009	2,967	3,215	503	3,380	288,005	1.04	1.12	1.17	10,973,214

Notes: A large truck is defined as a truck with a gross vehicle weight rating (GVWR) greater than 10,000 pounds (includes medium and heavy trucks). The Federal Highway Administration (FHWA) implemented an enhanced methodology for estimating registered vehicles and vehicle miles traveled by vehicle type for the years 2007-2009. As a result, involvement rates may differ, and in some cases significantly, from previously published rates.

Sources: Vehicle Miles of Travel and Registered Vehicles: Federal Highway Administration; Fatal Crashes, Vehicles Involved, and Fatalities: National Highway Traffic Safety Administration, Fatality Analysis Reporting System (FARS).

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Crashes involving trucks carrying hazardous materials are examined from four perspectives: the number of trucks involved compared to nonhazmat-carrying trucks; differences between hazmat-carrying trucks and other trucks; spillage or release of hazmat; and persons killed and injured.

### Number of Trucks Carrying Hazmat

The number of large trucks carrying hazmat that were involved in fatal traffic crashes averaged 225 per year from 1980 through 1990. Since 1991, the annual average has dropped to 203 trucks, with the number varying between 175 and 229 a year (Table 1). From 1991 through 2000 there were 48,229 large trucks involved in fatal crashes, but only 2,032 (4.2 percent) of them were carrying hazardous materials. Trucks transporting hazmat accounted for 3.9 to 4.8 percent of annual fatal large truck crash involvements in the 10-year period.

**Table 1**

#### Involvement of Large Trucks Carrying Hazmat in Fatal Crashes, 1991-2000

Year	Large Trucks in Fatal Crashes		
	Total	Carrying Hazmat Cargo	Percent Carrying Hazmat Cargo
1991	4,404	198	4.5
1992	4,175	202	4.8
1993	4,451	175	3.9
1994	4,795	212	4.4
1995	4,631	180	3.9
1996	5,007	229	4.6
1997	5,130	202	3.9
1998	5,198	222	4.3
1999	5,233	197	3.8
2000	5,275	215	4.1
Annual Average	<b><u>4,830</u></b>	<b><u>203</u></b>	<b><u>4.2</u></b>

-- Source: Trucks Involved in Fatal Accidents (TIFA), 1991-2000.

Large trucks carrying hazmat were involved in about 6,000 nonfatal crashes a year from 1996 through 2000, according to GES. These trucks represented only 1.7 percent of the total large trucks involved in nonfatal crashes in those years. In the MCMIS Crash File, the number of trucks carrying hazmat involved in nonfatal crashes averaged 4,286 a year from 1996 through 2000, accounting for 4.4 percent of the trucks involved in nonfatal crashes in the 5-year period.

In summary, less than 5 percent of the trucks involved in fatal and nonfatal traffic crashes each year were carrying hazardous materials. This relatively small percentage has remained fairly constant over the past two decades.



**Table 51. Large Trucks in Crashes by Hazardous Materials (HM) Cargo Type and HM Release, 2009**

HM Cargo Type	HM Release							
	Yes		No		Unknown		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Fatal Crashes</b>								
Explosives	3	9.1%	1	1.7%	0	0.0%	4	3.7%
Gases	6	18.2%	15	25.9%	0	0.0%	21	19.4%
Flammable Liquids	16	48.5%	26	44.8%	1	5.9%	43	39.8%
Flammable Solids	1	3.0%	0	0.0%	0	0.0%	1	0.9%
Oxidizing Substances	0	0.0%	1	1.7%	0	0.0%	1	0.9%
Poisonous and Infectious Substances	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Radioactive	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Corrosives	3	9.1%	2	3.4%	0	0.0%	5	4.6%
Miscellaneous Dangerous Goods	0	0.0%	2	3.4%	0	0.0%	2	1.9%
Unknown	4	12.1%	11	19.0%	16	94.1%	31	28.7%
<b>Total</b>	<b>33</b>	<b>100.0%</b>	<b>58</b>	<b>100.0%</b>	<b>17</b>	<b>100.0%</b>	<b>108</b>	<b>100.0%</b>

#### Nonfatal Crashes

Explosives	7	2.8%	46	2.8%	24	4.9%	77	3.3%
Gases	30	12.1%	284	17.5%	61	12.4%	375	15.9%
Flammable Liquids	110	44.5%	663	40.7%	190	38.8%	963	40.7%
Flammable Solids	1	0.4%	13	0.8%	3	0.6%	17	0.7%
Oxidizing Substances	4	1.6%	24	1.5%	2	0.4%	30	1.3%
Poisonous and Infectious Substances	1	0.4%	12	0.7%	5	1.0%	18	0.8%
Radioactive	0	0.0%	4	0.2%	3	0.6%	7	0.3%
Corrosives	20	8.1%	121	7.4%	23	4.7%	164	6.9%
Miscellaneous Dangerous Goods	33	13.4%	143	8.8%	23	4.7%	199	8.4%
Unknown	41	16.6%	317	19.5%	156	31.8%	514	21.7%
<b>Total</b>	<b>247</b>	<b>100.0%</b>	<b>1,627</b>	<b>100.0%</b>	<b>490</b>	<b>100.0%</b>	<b>2,364</b>	<b>100.0%</b>

Note: For fatal crashes, a large truck is defined as a truck with a gross vehicle weight rating (GVWR) of more than 10,000 pounds. For injury and towaway crashes, a large truck is defined here as a truck, used for commercial purposes, with a gross vehicle weight rating (GVWR) or gross combination weight rating greater than 10,000 pounds.

Sources: Fatal Crashes: National Highway Traffic Safety Administration, Fatality Analysis Reporting System (FARS). Nonfatal Crashes: Federal Motor Carrier Safety Administration, MCMIS Crash File.

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The National Response Center publishes data and statistics that pertain to various kinds of releases and crashes. Overall national statistics data are presented in the following two tables:

[::National STATISTICS > Incident Type 2000 - 2011::](#)

Incident Type	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Fixed	11,813	12,441	11,917	11,975	12,975	13,017	13,621	11,913	10,909	10,123	11,055	10,485
Unknown Sheen	4,016	4,147	3,426	3,733	3,411	3,934	3,797	4,199	4,278	4,254	5,882	4,638
Vessel	3,945	4,378	3,919	3,962	4,385	4,611	4,767	4,931	5,030	4,597	4,785	4,527
Mobile	3,597	3,216	2,942	2,947	3,192	3,215	3,267	3,297	3,238	2,854	2,915	3,034
Pipeline	1,618	1,841	1,621	1,643	1,574	1,896	1,839	1,580	1,379	1,275	1,148	1,144
Platform	1,428	1,355	1,233	1,344	1,198	1,395	1,606	1,407	1,362	1,761	1,317	1,057
Storage Tank	1,379	3,140	3,044	2,808	2,838	2,687	2,577	2,519	2,460	1,973	2,109	1,919
Railroad Non-Release	1,335	1,235	1,124	1,173	1,476	1,685	1,868	1,913	1,482	1,435	1,536	1,638
Railroad	1,332	1,241	1,200	1,074	1,276	1,532	1,451	1,390	1,649	1,306	1,372	1,583
Continuous	938	238	393	462	112	189	150	284	62	94	58	51
Aircraft	248	297	278	262	277	211	217	214	204	175	165	173
Drill/Exercise	669	789	908	743	1,073	1,223	1,578	1,584	1,829	2,039	1,944	2,380
Unknown	84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terrorist Non-Release	33	42	180	105	125	119	117	43	0	0	0	0
<b>TOTAL INCIDENTS</b>	<b>32,435</b>	<b>34,360</b>	<b>32,185</b>	<b>32,231</b>	<b>33,912</b>	<b>35,714</b>	<b>36,855</b>	<b>35,274</b>	<b>33,882</b>	<b>31,886</b>	<b>34,286</b>	<b>32,629</b>

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**:: STATISTICS > Incident Causes 2000 - 2011::**

Incident Cause	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Unknown	10,552	11,800	10,266	10,314	10,078	9,956	10,209	10,849	10,576	9,611	11,747	10,708
Equipment Failure	8,383	8,429	8,341	9,132	10,895	11,533	11,463	8,806	8,234	7,084	6,635	6,326
Other	6,428	7,204	7,457	6,531	3,907	3,865	3,858	3,860	3,942	3,923	4,420	3,955
Operator Error	3,459	2,885	2,305	2,889	2,997	2,684	2,908	2,885	3,022	2,331	2,128	1,861
Drills	0	0	0	0	0	0	0	0	0	0	1,944	2,380
Transport Accident	609	713	563	631	1,050	1,152	1,103	1,361	1,387	1,162	1,125	1,025
Dumping	1,523	1,494	1,265	960	806	757	863	1,004	935	1,067	1,158	872
Security Breach	0	0	0	6	264	761	924	952	907	765	755	807
Suspicious Activity	0	0	0	25	726	945	833	948	1,287	852	1,101	991
Vessel Sinking	0	0	0	0	366	655	802	835	965	862	951	952
Natural Phenomenon	472	716	497	711	685	575	804	708	726	511	711	571
Derailment	0	0	0	0	222	342	461	518	597	349	488	466
Trespasser	0	0	0	0	0	0	0	0	0	0	398	752
Hurricane	0	0	0	0	107	580	430	322	631	853	261	451
Criminal Intent	207	170	141	148	224	151	154	147	154	99	116	121
Over Pressuring	0	0	0	0	260	209	149	119	106	119	109	103
Explosion	21	68	46	48	47	66	91	110	124	92	80	64
Suicide	68	34	34	47	82	118	127	98	94	65	21	24
Bomb Threat	0	0	0	0	0	0	0	72	68	61	46	45
Flood	0	0	0	0	35	28	9	45	50	27	63	101
Terrorism	46	54	358	44	72	95	91	25	19	3	2	2
Tornado	0	0	0	0	5	6	17	16	36	6	17	47
Earthquake	0	4	4	2	2	9	6	7	18	3	9	2
Aircraft Diversion	0	0	0	0	4	4	0	2	3	2	1	1
Disorderly Passenger	0	0	0	3	1	0	1	1	1	0	0	0
Cyber Attack	0	0	0	0	1	0	0	0	0	0	0	1
Hijacking	0	0	0	1	0	0	0	0	0	0	0	1

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## RAILROAD STATISTICS

A comparison of WSOR and BNSF in Crawford County:

9/5/12

2.03 - Train Accidents by Railroad Groups



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#### 2.03 - Train Accidents by Railroad Groups

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#### ACCIDENTS IN DESCENDING FREQUENCY BY RAILROAD

Selections: Railroad Group - All Groups

State - WISCONSIN County - VERNON

All Regions

All Causes / All Types of Accidents / All Track Types

January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
BNSF BNSF Rwy Co. [BNSF]	1	100.0					1			

## By Assignable Cause:

9/5/12

2.03 - Train Accidents by Railroad Groups

### ACCIDENTS IN DESCENDING FREQUENCY BY TYPE

Selections: Railroad Group - All Groups

State - WISCONSIN County - CRAWFORD

All Regions

All Causes / All Types of Accidents / All Track Types

January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
GRAND TOTAL.....	4	100.0	2				2			
01 Derailments	2	50.0	1				1			
09 Obstruction impact	1	25.0	1							
12 Other impacts	1	25.0					1			





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## 2.02 - Train Accident Rates

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### ACCIDENTS IN DESCENDING FREQUENCY BY CAUSE TOTAL TRAIN MILES USED FOR RATE

Selections: Railroad - BNSF Rwy Co. [BNSF]  
All Causes / All Track Types  
January through December, 2011

	Total		Total Year Counts			Total Year Rates			YTD Counts Jan - Dec		YTD Rates To Dec	
	Accs	Pct of Total	2008	2009	2010	2008	2009	2010	2010	2011	2010	2011
-----GRAND TOTAL-----	1,934	100.0	604	412	447	3.25	2.63	2.64	447	471	2.64	2.68
H307 Shoving movement, failure to control	118	6.1	40	21	24	0.21	0.13	0.14	24	33	0.14	0.19
T110 Wide gage(defective/missing cross-ties)	87	4.5	33	22	15	0.18	0.14	0.09	15	17	0.09	0.10
H607 Failure to comply with restricted speed	80	4.1	23	18	15	0.12	0.11	0.09	15	24	0.09	0.14
T314 Switch point worn or broken	63	3.3	21	18	17	0.11	0.11	0.10	17	7	0.10	0.04
H306 Shoving movement, absence of man	52	2.7	21	7	9	0.11	0.04	0.05	9	15	0.05	0.09
T207 Detail fracture - shelling/head check	44	2.3	15	6	8	0.08	0.04	0.05	8	15	0.05	0.09
H318 Kicking or dropping cars, inadequate pre	42	2.2	15	10	9	0.08	0.06	0.05	9	8	0.05	0.05
E61C Broken rim	38	2.0	11	6	10	0.06	0.04	0.06	10	11	0.06	0.06
T001 Roadbed settled or soft	37	1.9	14	6	9	0.08	0.04	0.05	9	8	0.05	0.05
H503 Buff /slack action excess, trn handling	36	1.9	6	11	10	0.03	0.07	0.06	10	9	0.06	0.05
T102 Cross level track irreg.(not at joints)	32	1.7	9	9	4	0.05	0.06	0.02	4	10	0.02	0.06
T111 Wide gage(spikes/other rail fasteners)	32	1.7	8	7	6	0.04	0.04	0.04	6	11	0.04	0.06
H702 Switch improperly lined	31	1.6	8	10	8	0.04	0.06	0.05	8	5	0.05	0.03
M101 Snow,ice,mud,gravel,coal,etc. on trk	29	1.5	6	7	7	0.03	0.04	0.04	7	9	0.04	0.05
H312 Passed couplers	28	1.4	11	8	2	0.06	0.05	0.01	2	7	0.01	0.04
M411 Passed couplers (automated classificatio	28	1.4	14	5	5	0.08	0.03	0.03	5	4	0.03	0.02
T109 Track alignment irreg(buckled/sunkink)	27	1.4	2	5	12	0.01	0.03	0.07	12	8	0.07	0.05
H018 Fail to secure car hnd brk -rr emp	24	1.2	10	4	9	0.05	0.03	0.05	9	1	0.05	0.01
H703 Switch not latched or locked	24	1.2	9	3	10	0.05	0.02	0.06	10	2	0.06	0.01
H704 Switch previously run through	24	1.2	9	2	4	0.05	0.01	0.02	4	9	0.02	0.05
T319 Switch pt gap(btwnt swt pt & stock rail)	24	1.2	1	9	8	0.01	0.06	0.05	8	6	0.05	0.03
H997 Motor car or other on-track equipment ru	23	1.2	6	1	10	0.03	0.01	0.06	10	6	0.06	0.03
T403 Engineering design or construction	22	1.1	4	7	7	0.02	0.04	0.04	7	4	0.04	0.02
M404 Obj/equip on/fouling track, other	21	1.1	8	2	6	0.04	0.01	0.04	6	5	0.04	0.03
E46C Truck bolster stiff	20	1.0	7	4	4	0.04	0.03	0.02	4	5	0.02	0.03
H302 Cars left foul	20	1.0	7	4	7	0.04	0.03	0.04	7	2	0.04	0.01
M105 Extreme wind velocity	20	1.0	8	3	4	0.04	0.02	0.02	4	5	0.02	0.03
E53C Journal (roller bearing) overheating	19	1.0	9	5	2	0.05	0.03	0.01	2	3	0.01	0.02
E40C Side bearing clearance insufficient	17	0.9	6	5	4	0.03	0.03	0.02	4	2	0.02	0.01
H020 Fail to apply suff. hand brakes -rr emp	17	0.9	3	7	3	0.02	0.04	0.02	3	4	0.02	0.02
T299 Other rail and joint bar defects	17	0.9	11	5		0.06	0.03		0	1		0.01
H303 Derail, failure to apply or remove	16	0.8	3	4	3	0.02	0.03	0.02	3	6	0.02	0.03
M503 Vandalism of track or track appliances	16	0.8	6	2	5	0.03	0.01	0.03	5	3	0.03	0.02
T113 Wide gage (due to worn rails)	14	0.7	3	2	3	0.02	0.01	0.02	3	6	0.02	0.03
E33C Coupler retainer pin/cross key missing	13	0.7	5	4	2	0.03	0.03	0.01	2	2	0.01	0.01
H021 Fail to apply car hnd brks -rr emp	13	0.7	6	3	2	0.03	0.02	0.01	2	2	0.01	0.01
M407 Auto hump retarder failed to slow car	13	0.7	3	3	5	0.02	0.02	0.03	5	2	0.03	0.01
M408 Yard skate slid and failed to stop car	13	0.7	5	3	3	0.03	0.02	0.02	3	2	0.02	0.01
T108 Trk alignmnt irreg-not buckled/sunkink	13	0.7	4	1	4	0.02	0.01	0.02	4	4	0.02	0.02
T210 Head and web sep(outside jt bar limit)	13	0.7	3	1	3	0.02	0.01	0.02	3	6	0.02	0.03
H221 Automatic block or interlocking signal d	12	0.6	1	4	4	0.01	0.03	0.02	4	3	0.02	0.02
H525 Independent brake, improper use	12	0.6	3	5		0.02	0.03		0	4		0.02
H601 Coupling speed excessive	12	0.6	6	3	1	0.03	0.02	0.01	1	2	0.01	0.01
M402 Object/equipment (mtr veh) on track	12	0.6		5	1		0.03	0.01	1	6	0.01	0.03
T202 Broken base of rail	12	0.6	2	2	4	0.01	0.01	0.02	4	4	0.02	0.02
T221 Vertical split head	12	0.6	3	4	1	0.02	0.03	0.01	1	4	0.01	0.02

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H019 Fail to release hand brk - rr emp	11	0.6	2	4	3	0.01	0.03	0.02	3	2	0.02	0.01
H506 Lat DB force on curve excess, make-up	11	0.6	6	1	3	0.03	0.01	0.02	3	1	0.02	0.01
M204 Improperly loaded car	11	0.6	4	1	1	0.02	0.01	0.01	1	5	0.01	0.03
T311 Switch damaged or out of adjustment	11	0.6	1	3	4	0.01	0.02	0.02	4	3	0.02	0.02
T399 Oth frog, switch, trk appliance defect	11	0.6	4	3	3	0.02	0.02	0.02	3	1	0.02	0.01
E21C Center sill broken or bent	10	0.5	3	2	3	0.02	0.01	0.02	3	2	0.02	0.01
E51C Broken/bent axle between wheel seats	10	0.5	3	2	5	0.02	0.01	0.03	5	0	0.03	
E64C Worn Flange	10	0.5	2	3	1	0.01	0.02	0.01	1	4	0.01	0.02
E73L Oil or fuel fire (LOCO)	10	0.5	2	2	5	0.01	0.01	0.03	5	1	0.03	0.01
H402 Motor car/on-trk rules, fail to comply	10	0.5	3	3	2	0.02	0.02	0.01	2	2	0.01	0.01
H504 Buff /slack action excess, trn make-up	10	0.5	4		2	0.02		0.01	2	4	0.01	0.02
M504 Fail by non-rr emp to control spd of car	10	0.5	8		1	0.04		0.01	1	1	0.01	0.01
M505 Cause under investigation	10	0.5			3			0.02	3	7	0.02	0.04
T101 Cross level of track irregular(joints)	10	0.5	5	2	2	0.03	0.01	0.01	2	1	0.01	0.01
T106 Superelevation improper, excessive,etc.	10	0.5	4		4	0.02		0.02	4	2	0.02	0.01
T199 Other track geometry defects	10	0.5	5	2	1	0.03	0.01	0.01	1	2	0.01	0.01
M507 Investigation complete, cause could not	9	0.5	5	4		0.03	0.03		0	0		
M599 Other miscellaneous causes	9	0.5		2	6		0.01	0.04	6	1	0.04	0.01
S016 Classification yard automatic control sy	9	0.5	1	2	5	0.01	0.01	0.03	5	1	0.03	0.01
H602 Switch movement, excessive speed	8	0.4	1	2	3	0.01	0.01	0.02	3	2	0.02	0.01
T002 Washout/rain/slide/etc. dmg -track	8	0.4	1	1	3	0.01	0.01	0.02	3	3	0.02	0.02
T103 Deviate frm uniform top of rail profile	8	0.4		2	5		0.01	0.03	5	1	0.03	0.01
T206 Defect/missing spike-oth rail fastener	8	0.4	1	5	1	0.01	0.03	0.01	1	1	0.01	0.01
E07C Rigging down or dragging	7	0.4	2	1	2	0.01	0.01	0.01	2	2	0.01	0.01
H220 Fixed signal (other than automatic block	7	0.4	2		3	0.01		0.02	3	2	0.02	0.01
H305 Instruction to trn/rd crew improper	7	0.4	4	1		0.02	0.01		0	2		0.01
H316 Manual intervention of classification ya	7	0.4	2	2		0.01	0.01		0	3		0.02
H605 Failure to comply with restricted speed	7	0.4	3	1	1	0.02	0.01	0.01	1	2	0.01	0.01
M102 Extreme environmental - TORNADO	7	0.4	1	1	2	0.01	0.01	0.01	2	3	0.01	0.02
S011 Power switch failure	7	0.4	2	3	1	0.01	0.02	0.01	1	1	0.01	0.01
E27C Side sill broken	6	0.3	3	2		0.02	0.01		0	1		0.01
E30C Knuckle broken or defective	6	0.3	2	1	1	0.01	0.01	0.01	1	2	0.01	0.01
E65C Worn tread	6	0.3	2	3		0.01	0.02		0	1		0.01
H017 Failure to secure engine- rr empl	6	0.3	3			0.02			0	3		0.02
H310 Failure to couple	6	0.3	1	2	1	0.01	0.01	0.01	1	2	0.01	0.01
H514 Fail to allow air brks to release	6	0.3			4			0.02	4	2	0.02	0.01
M199 Other extreme environmental conditions	6	0.3	2	1	1	0.01	0.01	0.01	1	2	0.01	0.01
M409 Lading chains/straps fouling switches	6	0.3	4		1	0.02		0.01	1	1	0.01	0.01
M501 Interference(not vandals)with RR op.	6	0.3		1	1		0.01	0.01	1	4	0.01	0.02
T099 Other roadbed defects	6	0.3	2	2	2	0.01	0.01	0.01	2	0	0.01	
T201 Bolt hole crack or break	6	0.3	2	1		0.01	0.01		0	3		0.02
T212 Horizontal split head	6	0.3	3			1.02		0.01	1	2	0.01	0.01
T305 Retarder worn, broken, malfunctioning	6	0.3	1	3	2	0.01	0.02	0.01	2	0	0.01	
E34C Draft gear/mechanism broke/defective	5	0.3	2	1	2	0.01	0.01	0.01	2	0	0.01	
E47C Defective snubbing	5	0.3	1	2	1	0.01	0.01	0.01	1	1	0.01	0.01
E69C Other wheel defects (CAR)	5	0.3	1	1		0.01	0.01		0	3		0.02
H403 Movement without authority - rr emp	5	0.3	2	1	1	0.01	0.01	0.01	1	1	0.01	0.01
H599 Other train handling/makeup	5	0.3	3	1		0.02	0.01		0	1		0.01
H995 Human factors -motive power & equipment	5	0.3	2			1.01		0.01	1	2	0.01	0.01
M405 Harmonic rock off, etc.	5	0.3	1			1.01		0.01	1	3	0.01	0.02
S007 Class yd auto ctrl sys retarder fail	5	0.3	2		2	0.01		0.01	2	1	0.01	0.01
T112 Wide gage(loose,broke, etc, gage rods)	5	0.3	2		2	0.01		0.01	2	1	0.01	0.01
T220 Transverse/compound fissure	5	0.3			2			0.01	2	3	0.01	0.02
E04C Oth brk component dmg,worn,broke,etc.	4	0.2	1	1	1	0.01	0.01	0.01	1	1	0.01	0.01
E06C Brake valve malf. (stuck brake, etc.)	4	0.2	1	1		0.01	0.01		0	2		0.01
E32C Coupler drawhead broken or defective	4	0.2	1	2	1	0.01	0.01	0.01	1	0	0.01	
E39C Oth coupler/draft system defects-car	4	0.2	1		3	0.01		0.02	3	0	0.02	
E45C Side frame broken	4	0.2	1	1	1	0.01	0.01	0.01	1	1	0.01	0.01
E48C Truck bolster stiff (failure to slew)	4	0.2		2	1		0.01	0.01	1	1	0.01	0.01
E47C Truck hunting	4	0.2	1			0.01			0	3		0.02
E71L Traction motor failure (LOCO)	4	0.2		1	2		0.01	0.01	2	1	0.01	0.01
H099 Use of brakes, other	4	0.2	3			0.02			0	1		0.01
H104 Employee asleep	4	0.2	1	1		0.01	0.01		0	2		0.01
H399 Other general switching rules	4	0.2	1	3		0.01	0.02		0	0		
H505 Lat DB force on curve excess trn hndng	4	0.2	2	1		0.01	0.01		0	1		0.01
H524 Excessive horsepower	4	0.2		3			0.02		0	1		0.01
H799 Use of switches, other	4	0.2	2	2		0.01	0.01		0	0		
M506 Track damage caused by non-railroad inte	4	0.2	1	2		0.01	0.01		0	1		0.01
T301 Derail, defective	4	0.2	1	2		0.01	0.01		0	1		0.01
T307 Spring/power swtch mech. malfunction	4	0.2			3			0.02	3	1	0.02	0.01

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T308 Stock rail worn, broken, disconnected	4	0.2		1	3	0.01	0.02	3	0	0.02	
T317 Turnout frog (self guarded)-worn/broken	4	0.2		2	2	0.01	0.01	2	0	0.01	
T401 Bridge misalignment or failure	4	0.2		2		0.01		0	2		0.01
E08C Hand brk broken or defective	3	0.2	2			0.01		0	1		0.01
E35C Coupler carrier broken or defective	3	0.2		1		0.01		0	2		0.01
E49C Other truck component defects, (CAR)	3	0.2	1	1		0.01	0.01	0	1		0.01
E54C Journal fractured, new cold break	3	0.2		1	2	0.01	0.01	2	0	0.01	
E59C Oth axle/journal bearing defect-car	3	0.2			3		0.02	3	0	0.02	
E67C Damaged flange or tread (build up)	3	0.2			1		0.01	1	2	0.01	0.01
H022 Fail to secure equip - not rr emp	3	0.2	1		1	0.01	0.01	1	1	0.01	0.01
H507 Lat drawbar force-short/long car combo	3	0.2			1		0.01	1	2	0.01	0.01
H999 Other train operation/human factors	3	0.2	1		2	0.01	0.01	2	0	0.01	
M299 Miscellaneous loading procedures	3	0.2	2	1		0.01	0.01	0	0		
T205 Defective or missing crossies	3	0.2	1		2	0.01	0.01	2	0	0.01	
T215 Joint bar broken (noninsulated)	3	0.2	2	1		0.01	0.01	0	0		
T222 Worn rail	3	0.2	1		1	0.01	0.01	1	1	0.01	0.01
T303 Guard rail loose/broken or mislocated	3	0.2	1	2		0.01	0.01	0	0		
T309 Switch (hand op) stand mechanism defect	3	0.2			2		0.01	2	1	0.01	0.01
T499 Other way and structure defect	3	0.2	2		1	0.01	0.01	1	0	0.01	
E00C Air hose uncoupled or burst	2	0.1		1	1	0.01	0.01	1	0	0.01	
E37C Failure of articulated connectors	2	0.1	1	1		0.01	0.01	0	0		
E60C Broken flange	2	0.1			1		0.01	1	1	0.01	0.01
E62C Broken plate	2	0.1	1		1	0.01	0.01	1	0	0.01	
E68C Loose wheel	2	0.1	2			0.01		0	0		
E85C Bottom outlet car door open	2	0.1	1			0.01		0	1		0.01
H008 Bottling the Air	2	0.1	1			0.01		0	1		0.01
H222 Automatic block or interlocking signal d	2	0.1						0	2		0.01
H308 Skate, failure to remove or place	2	0.1		1		0.01		0	1		0.01
H309 Failure to stretch cars before shoving	2	0.1	1			0.01		0	1		0.01
H404 Fail to comply with trn order, etc.	2	0.1			2		0.01	2	0	0.01	
H508 Improper train make-up	2	0.1	1			0.01		0	1		0.01
H513 Automatic brake, other improper use	2	0.1		1	1	0.01	0.01	1	0	0.01	
H516 Fail to cut-in brake valves-loco	2	0.1	1		1	0.01	0.01	1	0	0.01	
H519 Dynamic brake, too rapid adjustment	2	0.1						0	2		0.01
H604 Train outside yd limits, excess speed	2	0.1		1	1	0.01	0.01	1	0	0.01	
H699 Speed, other	2	0.1	1	1		0.01	0.01	0	0		
H701 Spring Switch not clear before reverse	2	0.1		1		0.01		0	1		0.01
H705 Moveable point trk frog improper lined	2	0.1		1		0.01		0	1		0.01
H707 Radio controlled switch not locked effec	2	0.1			1		0.01	1	1	0.01	0.01
H996 Oversized loads or Excess Height/Width c	2	0.1		1	1	0.01	0.01	1	0	0.01	
H99E Computer system configuration/management	2	0.1	2			0.01		0	0		
M203 Overloaded car	2	0.1	2			0.01		0	0		
M406 Fire, other than vandalism	2	0.1			1		0.01	1	1	0.01	0.01
M410 Lading chains or straps fouling wheels	2	0.1	2			0.01		0	0		
S006 Classyard autocontrol sys switch fail	2	0.1	1			0.01		0	1		0.01
S099 Other signal failures	2	0.1			2		0.01	2	0	0.01	
S104 Radio controlled switch not locked effec	2	0.1		1	1	0.01	0.01	1	0	0.01	
T211 Head & web separation-in jt bar limit	2	0.1	2			0.01		0	0		
T213 Joint bar broken (compromise)	2	0.1	1			0.01		0	1		0.01
T315 Switch rod worn, bent, broken, etc.	2	0.1	1			0.01		0	1		0.01
T316 Turnout frog (rigid) worn, or broken	2	0.1	2			0.01		0	0		
E03C Obstructed brake pipe	1	0.1	1			0.01		0	0		
E05C Brk valve malf. (undesired emergency)	1	0.1	1			0.01		0	0		
E09C Other brake defects, cars	1	0.1	1			0.01		0	0		
E09L Other brake defects, (LOCO)	1	0.1		1		0.01		0	0		
E0HC Hnd brk link and/or connect defect	1	0.1	1			0.01		0	0		
E22C Draft sill broken or bent	1	0.1						0	1		0.01
E23C Center plate broken or defective	1	0.1			1		0.01	1	0	0.01	
E24C Ctr plate disengaged from truck	1	0.1	1			0.01		0	0		
E29C Other body defects, (CAR)	1	0.1	1			0.01		0	0		
E29L Other body defects, (LOCO)	1	0.1						0	1		0.01
E31C Coupler mismatch, high/low	1	0.1		1		0.01		0	0		
E36C Coupler shank broken/defective	1	0.1			1		0.01	1	0	0.01	
E41C Side bearing clearance excessive	1	0.1	1			0.01		0	0		
E44C Truck bolster broken	1	0.1						0	1		0.01
E52C Journal (plain) failure from overheat	1	0.1						0	1		0.01
E64L Worn flange (LOCO)	1	0.1	1			0.01		0	0		
E65L Worn tread (LOCO)	1	0.1	1			0.01		0	0		



E69L Other wheel defects (LOCO)	1	0.1						0	1		0.01
E79L Other LOCO defects	1	0.1						0	1		0.01
E99C Other mechanical/electrical failures	1	0.1	1		0.01			0	0		
H025 Fail to ctrl car spd use hnd brk-r emp	1	0.1						0	1		0.01
H101 Impairment because of drugs or alcohol	1	0.1		1		0.01		1	0	0.01	
H208 Hand signal improper	1	0.1	1		0.01			0	0		
H210 Radio communication, failure to comply	1	0.1	1		0.01			0	0		
H211 Radio communication, improper	1	0.1	1		0.01			0	0		
H311 Moving cars-load ramp, etc, not in pos	1	0.1		1		0.01		1	0	0.01	
H501 Improper train make-up at init term	1	0.1						0	1		0.01
H502 Improper placement of cars in train	1	0.1		1		0.01		1	0	0.01	
H510 Automatic brake, insufficient	1	0.1		1		0.01		0	0		
H511 Automatic brake, excessive	1	0.1		1		0.01		1	0	0.01	
H520 Dynamic brake, excessive axles	1	0.1		1		0.01		0	0		
H526 Failure to actuate off independent brk	1	0.1	1		0.01			0	0		
H603 Train inside yard limits, excess speed	1	0.1						0	1		0.01
H706 Switch improperly lined, radio controlle	1	0.1						0	1		0.01
H993 Human factors - track	1	0.1	1		0.01			0	0		
H998 Human Factor - Signal - Train Control -	1	0.1		1		0.01		0	0		
M103 Extreme environmental - FLOOD	1	0.1		1		0.01		1	0	0.01	
M201 Load shifted	1	0.1		1		0.01		1	0	0.01	
M202 Load fell from car	1	0.1		1		0.01		0	0		
M206 Trailer/container tiedown eqp improper	1	0.1		1		0.01		0	0		
M502 Vandalism of on-track equipment	1	0.1						0	1		0.01
S102 Remote control transmitter, loss of comm	1	0.1	1		0.01			0	0		
S103 Radio controlled switch communication fa	1	0.1		1		0.01		1	0	0.01	
T105 Insufficient ballast section	1	0.1	1		0.01			0	0		
T203 Broken weld (plant)	1	0.1	1		0.01			0	0		
T204 Broken weld (field)	1	0.1	1		0.01			0	0		
T208 Engine burn fracture	1	0.1		1		0.01		0	0		
T310 Switch connect/operate rod broke/defect	1	0.1		1		0.01		1	0	0.01	
T318 Turnout frog (spring) worn, or broken	1	0.1	1		0.01			0	0		

## SECTION 2: AIRPORTS

### Discussion

A careful and exhaustive review of every airport in or immediately adjacent to the four counties studied was completed. Roadside and Aerial photographs of the hardened runway airports are included in this section along with a map of the entire Southwest region highlighting the sod and asphalt runways of concern. For planning purposes well into the future, every relevant detail of all of them is contained in this section. While currently only Iowa County is receiving any freight in quantity (Tri-County in Lone Rock being the alternative backup), there is undoubtedly not only room for expansion, but the very real possibility that even on sod runways, small quantities of various kinds of materials are being transported every day somewhere in the region.

The following information was obtained by way of phone interviews with freight managers at the relevant terminals:

### Iowa County Airport Freight

On any given day, there could be:

- 3000 lbs. of freight, [between Tuesday and Saturday]
  - Most of the shipments are Next Day Air freight
  - The contents of these shipments are primarily consumer products, electronics, agricultural materials, mechanical parts for automotive, farm machinery and heavy equipment
  - UPS-----> Early AM packages - 20 to 30 packages (Avg. 30 lbs.) with the very rare HazMat, 98% of it being Residential: Amazon.com type assortment of packages
  - HazMats are likely to be Class 3 and Class 8 materials related to paints, solvents, cleaners and batteries

Most of the air freight is UPS related, and a good deal of it originates out of General Mitchell Airport in Milwaukee. However, Freight Runners, also based in Milwaukee, WI ships to Iowa County Airport.

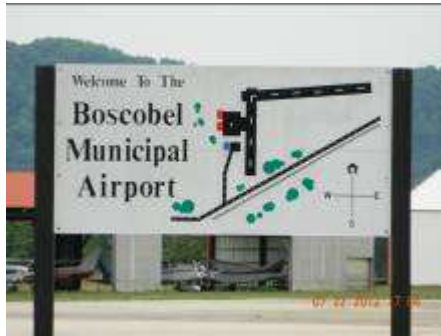
Similar to UPS, they handle the following logistics:

- Next Day Air freight
- Commercial/Residential
- Boxes of all sizes
- 6000# per week
- Occasionally ORD-9 type materials, along with Paints, Acids & Bases

**Tri-County Airport** in Lone Rock, infrequently accepts “Spill Over” Freight from Iowa County – generally from December through April, normally as a result of weather or runway related diversions. They typically get about 400 lbs. of freight per flight and are not equipped to physically handle heavy or large numbers of packages.



Iowa County Airport



Boscobel Municipal Airport



Prairie du Chien Mncpl. Airport



Tri-County Regional Airport



Viroqua Municipal Airport



Iowa County Airport



Boscobel Municipal Airport



Prairie du Chien Mncpl. Airport



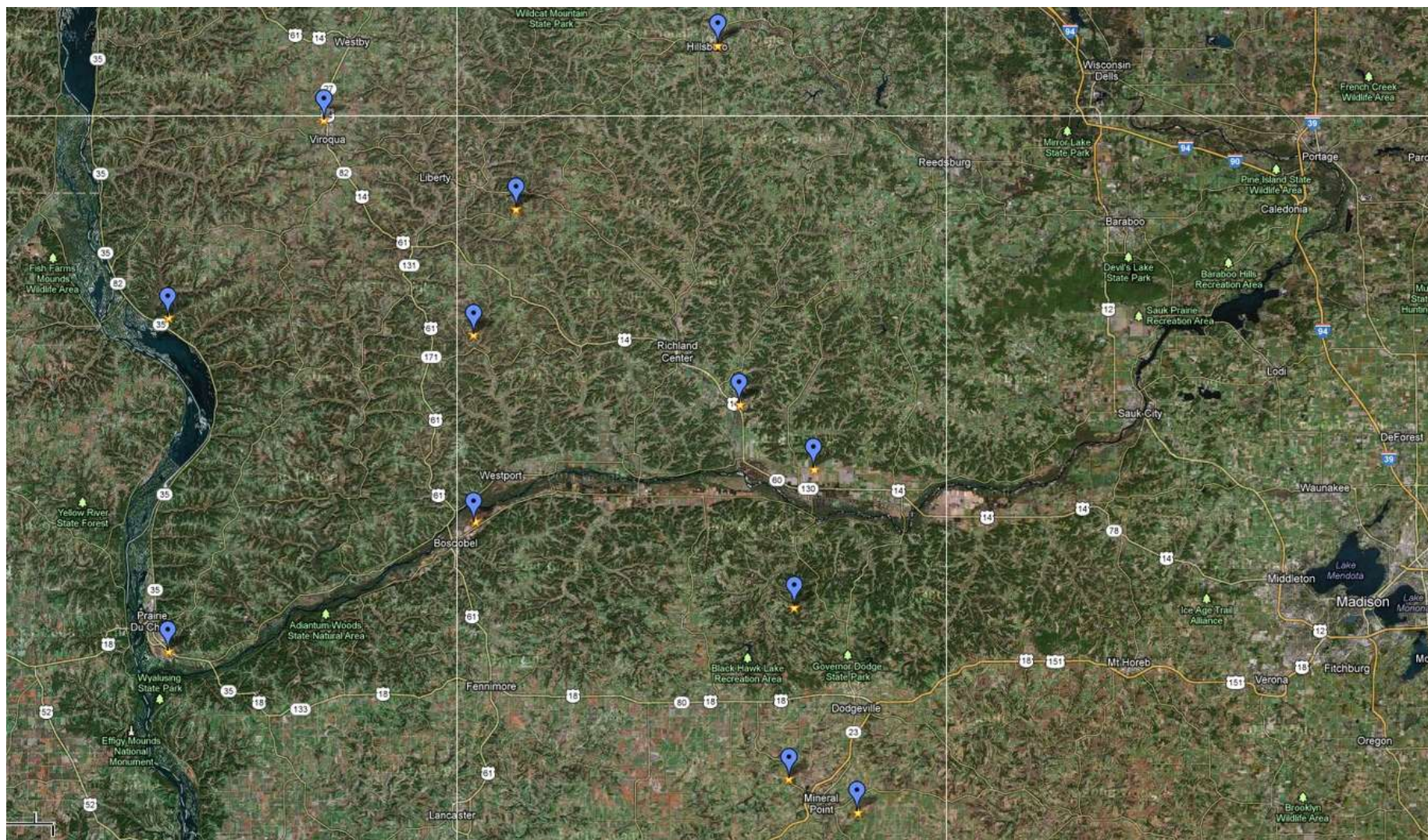
Tri-County Regional Airport



Viroqua Municipal Airport

Pictured left to right, top to bottom (Ground Level at the Top, Aerials right below; same order):  
 Iowa County Airport, Mineral Point, WI; Boscobel Municipal Airport, Boscobel, WI; Prairie du Chien Municipal Airport, Prairie du Chien, WI; Tri-County Regional Airport; Lone Rock, WI; Viroqua Municipal Airport, Viroqua, WI.





**Airports in the Four County Region, at a glance.**

## Crawford County Airport Data





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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: OVS

Lat/Long: 43-09-38.9000N / 090-40-26.3000W

43-09.648333N / 090-40.438333W

43.1608056 / -90.6739722

(estimated)

Elevation: 673 ft. / 205.1 m (surveyed)

Variation: 01W (2010)

From city: 2 miles NE of BOSCOBEL, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53805

**Airport Operations**

Airport use: Open to the public

Activation date: 01/1947

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: OVS (NOTAM-D service available)

Attendance: DAWN-DUSK

Pattern altitude: 1503 ft. MSL

Wind indicator: yes

Segmented circle: no

Lights: MIRL RY 07/25 PRESET ON LOW INTST, TO INCR INTST & ACTVT REIL RY  
07/ 25; MIRL RY 02/20 - CTAF.

Beacon: white-green (lighted land airport)

Operates sunset to sunrise.

**Airport Communications**

CTAF/UNICOM: 122.8

WX ASOS: 126.775 (608-375-2712)

- APCH/DEP SERVICE PROVIDED BY CHICAGO ARTCC ON FREQS 133.3/380.35 (LONE ROCK RCAG).

## Airport Services

Fuel available: 100LL

24 HR SELF SERVICE WITH CREDIT CARD.

Parking: hangars and tie-downs

Airframe service: MAJOR

Powerplant service: MAJOR

Bottled oxygen: NONE

Bulk oxygen: NONE

## Runway Information

### Runway 7/25

Dimensions: 5000 x 75 ft. / 1524 x 23 m

Surface: asphalt, in good condition

Weight bearing capacity: Single wheel: 12.5

Double wheel: 30.0

Runway edge lights: medium intensity

#### **RUNWAY 7**

Latitude: 43-09.623792N

Longitude: 090-40.741197W

Elevation: 668.2 ft.

Traffic pattern: left

Runway heading: 068 magnetic, 067 true

Markings: nonprecision, in fair condition

Visual slope indicator: 2-light PAPI on left (3.00 degrees glide path)

Runway end identifier lights: yes

Touchdown point: yes, no lights

Obstructions: 40 ft. trees, 1600 ft. from runway,  
300 ft. left of centerline, 35:1 slope  
to clear

#### **RUNWAY 25**

43-09.944142N

090-39.705628W

670.7 ft.

left

248 magnetic, 247 true

nonprecision, in fair condition

2-light PAPI on left (3.00 degrees glide path)

yes

yes, no lights

40 ft. trees, 1650 ft. from runway,  
300 ft. right of centerline, 36:1 slope  
to clear

### Runway 2/20

Dimensions: 3658 x 58 ft. / 1115 x 18 m

Surface: asphalt, in fair condition

Weight bearing capacity: Single wheel: 12.5

Runway edge lights: medium intensity

#### **RUNWAY 2**

Latitude: 43-09.174970N

Longitude: 090-40.852283W

Elevation: 672.2 ft.

Gradient: 0.2%

Traffic pattern: left

Runway heading: 018 magnetic, 017 true

#### **RUNWAY 20**

43-09.751193N

090-40.613283W

668.4 ft.

0.2%

left

198 magnetic, 197 true

Markings: basic, in fair condition	basic, in fair condition
Runway end identifier lights: no	no
Touchdown point: yes, no lights	yes, no lights
Obstructions: 24 ft. trees, 800 ft. from runway, 120 ft. right of centerline, 25:1 slope to clear	57 ft. trees, 1350 ft. from runway, 170 ft. right of centerline, 20:1 slope to clear

## Airport Ownership and Management from official FAA records

Ownership: Publicly-owned  
Owner: CITY OF BOSCOBEL  
106 WISCONSIN AVE  
BOSCOBEL, WI 53805  
Phone 608-375-5001  
Manager: RONALD HULS  
100 JAMES DRIVE  
BOSCOBEL, WI 53805  
Phone 608-375-5223

## Airport Operational Statistics

Aircraft based on the field: 24	Aircraft operations: avg 45/day *
Single engine airplanes: 22	61% local general aviation
Multi engine airplanes: 2	37% transient general aviation
	2% air taxi
	<1% military
	* for 12-month period ending 17 June 2011



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: PDC

Lat/Long: 43-01-09.4270N / 091-07-25.4380W

43-01.157117N / 091-07.423967W

43.0192853 / -91.1237328

(estimated)

Elevation: 660 ft. / 201.2 m (surveyed)

Variation: 00E (2000)

From city: 2 miles SE of PRAIRIE DU CHIEN, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53821

**Airport Operations**

Airport use: Open to the public

Activation date: 09/1947

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: PDC (NOTAM-D service available)

Attendance: 1000-1600

Pattern altitude: 1660 ft. MSL

Wind indicator: lighted

Segmented circle: yes

Lights: ACTVT MIRL RYS 11/29, 14/32, PAPI RYS 14 & 32 & REIL RYS 14 & 32 - CTAF.

Beacon: white-green (lighted land airport)

Operates sunset to sunrise.

**Airport Communications**

CTAF/UNICOM: 122.8

WX AWOS-3: 119.925 (608-326-9122)

- APCH/DEP SVC PRVDD BY CHICAGO ARTCC ON FREQS 133.95/281.4 (DUBUQUE RCAG).

## Airport Services

Fuel available: 100LL JET-A  
24 HR SELF SERVICE  
Parking: tiedowns

## Runway Information

### Runway 14/32

Dimensions: 5000 x 75 ft. / 1524 x 23 m  
Surface: asphalt, in good condition  
Weight bearing capacity: Single wheel: 30.0  
Double wheel: 60.0  
Runway edge lights: medium intensity  
**RUNWAY 14**  
Latitude: 43-01.350218N  
Longitude: 091-07.741728W  
Elevation: 650.5 ft.  
Traffic pattern: left  
Runway heading: 140  
Markings: nonprecision, in good condition  
Visual slope indicator: 2-light PAPI on left (3.00 degrees  
glide path)  
Runway end identifier lights: yes  
Touchdown point: yes, no lights  
Obstructions: 56 ft. pole, 2104 ft. from runway,  
325 ft. left of centerline, 34:1 slope  
to clear

**RUNWAY 32**  
43-00.719665N  
091-07.020888W  
649.5 ft.  
left  
320  
nonprecision, in good condition  
2-light PAPI on left (4.00 degrees  
glide path)  
yes  
yes, no lights  
52 ft. trees, 1250 ft. from runway,  
120 ft. left of centerline, 20:1 slope  
to clear

### Runway 11/29

Dimensions: 3999 x 75 ft. / 1219 x 23 m  
Surface: asphalt, in fair condition  
Weight bearing capacity: Single wheel: 24.0  
Double wheel: 40.0  
Runway edge lights: medium intensity  
**RUNWAY 11**  
Latitude: 43-01.424667N  
Longitude: 091-07.898625W  
Elevation: 650.7 ft.  
Gradient: 0.4%  
Traffic pattern: left  
Runway heading: 110  
Markings: , in fair condition  
Runway end identifier lights: no  
Touchdown point: yes, no lights  
Obstructions: 71 ft. stack, 1850 ft. from runway,  
300 ft. right of centerline, 23:1 slope

**RUNWAY 29**  
43-01.195510N  
091-07.057660W  
658.6 ft.  
0.4%  
left  
290  
, in fair condition  
no  
yes, no lights  
34 ft. trees, 1000 ft. from runway,  
200 ft. left of centerline, 23:1 slope



to clear

to clear

## **Airport Ownership and Management from official FAA records**

Ownership: Publicly-owned

Owner: CITY OF PRAIRIE DU CHIEN  
P O BOX 324  
PRAIRIE DU CHIEN, WI 53821  
Phone 608-326-6406

Manager: RICHARD YEOMANS  
37735 US HWY 18  
PRAIRIE DU CHIEN, WI 53821  
Phone 608-326-2118

## **Airport Operational Statistics**

Aircraft based on the field: 13	Aircraft operations: avg 34/day *
Single engine airplanes: 9	59% local general aviation
Multi engine airplanes: 4	37% transient general aviation
	4% air taxi
	<1% military
	* for 12-month period ending 15 September 2010



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: WS51

Lat/Long: 43-21-09.5315N / 090-40-51.6825W

43-21.158858N / 090-40.861375W

43.3526476 / -90.6810229

(estimated)

Elevation: 1068 ft. / 326 m (estimated)

Variation: 00E (2000)

From city: 6 miles SE of SOLDIERS GROVE, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 54655

**Airport Operations**

Airport use: Private use, PERSONAL USE.

Activation date: 03/1988

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: FDC (NOTAM-D service not available)

Attendance: UNATNDD

Wind indicator: yes

Segmented circle: no

**Runway Information****Runway 11/29**

Dimensions: 3791 x 100 ft. / 1155 x 30 m

Surface: asphalt

Runway edge lights: high intensity

**RUNWAY 11****RUNWAY 29**

Latitude: 43-21.267500N

43-21.050217N

Longitude: 090-41.262250W

090-40.460500W

Elevation: 1068.2 ft.

1049.7 ft.

Traffic pattern: left

left

Markings: nonprecision

nonprecision

Visual slope indicator: 2-box VASI on left 2-light PAPI on left

Touchdown point: yes, no lights

yes, no lights

**7W10**

**Turkey Bluff Airport**  
Ferryville, Wisconsin, USA



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**FAA INFORMATION EFFECTIVE 26 JULY 2012**

**Location**

FAA Identifier: 7W10

Lat/Long: 43-22-22.9140N / 091-06-35.4670W

43-22.381900N / 091-06.591117W

43.3730317 / -91.1098519

(estimated)

Elevation: 1110 ft. / 338 m (estimated)

Variation: 02E (1985)

From city: 3 miles N of FERRYVILLE, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 54628

**Airport Operations**

Airport use: Private use. Permission required prior to landing

Activation date: 01/1978

Sectional chart: [CHICAGO](#)

Control tower: No

ARTCC: MINNEAPOLIS CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

Attendance: UNATNDD

Wind indicator: No

Segmented circle: No

**Runway Information**

**Runway NE/SW**

Dimensions: 2100 x 50 ft. / 640 x 15 m

Surface: turf

**RUNWAY NE RUNWAY SW**

Traffic pattern: left left

## Iowa County Airport Data



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: MRJ

Lat/Long: 42-53-12.6382N / 090-14-11.6278W  
42-53.210637N / 090-14.193797W  
42.8868439 / -90.2365633  
(estimated)

Elevation: 1171 ft. / 356.9 m (surveyed)

Variation: 00W (2000)

From city: 3 miles NW of MINERAL POINT, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53565

**Airport Operations**

Airport use: Open to the public

Activation date: 04/1962

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: MRJ (NOTAM-D service available)

Attendance: MON-FRI 0800-1700, ALL SAT 0800-1200, ALL SUN ON CALL  
FOR ATTENDANT CALL 608-553-7571 OR 608-341-8455.

Wind indicator: yes

Segmented circle: no

Lights: MIRL RY 11/29 PRESET ON LOW INTST, TO INCR INTST & ACTVT PAPI RY  
04/22; MIRL RY 04/22; REIL RY 11/29; PAPI RY 11/29; MIRL RY 11/29 - CTAF.

Beacon: white-green (lighted land airport)

Operates sunset to sunrise.

**Airport Communications**

CTAF/UNICOM: 122.8

WX AWOS-3: 118.525 (608-987-2157)

WX AWOS-3 at PVB (15 nm SW): 120.575 (608-348-3637)

WX ASOS at LNR (20 nm N): 119.425 (608-583-2576)

- APCH/DEP SVC PRVDD BY CHICAGO ARTCC ON FREQS 133.95/281.4 (DUBUQUE RCAG).



## Airport Services

Fuel available: 100LL JET-A

FUEL AVBL 24 HR SELF SVC.

Parking: hangars and tiedowns

Airframe service: MAJOR

Powerplant service: MAJOR

Bottled oxygen: LOW

Bulk oxygen: NONE

## Runway Information

### Runway 11/29

Dimensions: 5000 x 75 ft. / 1524 x 23 m

Surface: asphalt, in good condition

Runway edge lights: medium intensity

#### **RUNWAY 11**

Latitude: 42-53.420700N

Longitude: 090-14.923617W

Elevation: 1129.4 ft.

Gradient: 0.7% UP

Traffic pattern: left

Runway heading: 110 magnetic, 110 true

Markings: nonprecision, in good condition

Visual slope indicator: 2-light PAPI on left (3.00 degrees glide path)

Runway end identifier lights: yes

Touchdown point: yes, no lights

#### **RUNWAY 29**

42-53.128483N

090-13.877317W

1162.5 ft.

0.7% DOWN

left

290 magnetic, 290 true

nonprecision, in good condition

2-light PAPI on left (3.00 degrees glide path)

yes

yes, no lights

### Runway 4/22

Dimensions: 3601 x 60 ft. / 1098 x 18 m

Surface: asphalt, in good condition

Weight bearing capacity: Single wheel: 12.5

Runway edge lights: medium intensity

#### **RUNWAY 4**

Latitude: 42-52.895667N

Longitude: 090-14.167167W

Elevation: 1164.0 ft.

Gradient: 0.3%

Traffic pattern: left

Runway heading: 040 magnetic, 040 true

Markings: nonprecision, in good condition

Visual slope indicator: 2-light PAPI on left (3.00 degrees glide path)

#### **RUNWAY 22**

42-53.348000N

090-13.646500W

1170.6 ft.

0.2% DOWN

left

220 magnetic, 220 true

nonprecision, in good condition

2-light PAPI on left (3.00 degrees glide path)

Touchdown point: yes, no lights	OTS INDEFINITE.
Obstructions: 5 ft. road, 300 ft. from runway, 260 ft. right of centerline, 20:1 slope to clear	yes, no lights none

## Airport Ownership and Management from official FAA records

Ownership: Publicly-owned  
Owner: IOWA COUNTY  
222 N. IOWA STREET  
DODGEVILLE, WI 53533  
Phone 608-987-9931  
Manager: KEVIN KING  
3151 STATE RD 39  
MINERAL POINT, WI 53565  
Phone 608-987-9931

## Airport Operational Statistics

Aircraft based on the field: 23	Aircraft operations: avg 34/day *
Single engine airplanes: 21	49% transient general aviation
Multi engine airplanes: 2	41% local general aviation
	6% air taxi
	4% military
	* for 12-month period ending 19 August 2009



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: WI16

Lat/Long: 42-51-10.9900N / 090-07-47.0000W

42-51.183167N / 090-07.783333W

42.8530528 / -90.1297222

(estimated)

Elevation: 1100 ft. / 335 m (estimated)

Variation: 00E (1995)

From city: 2 miles E of MINERAL POINT, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53565

**Airport Operations**

Airport use: Private use. Permission required prior to landing

Activation date: 02/1998

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

Attendance: UNATNDD

Wind indicator: yes

Segmented circle: no

**Runway Information****Runway 3/21**

Dimensions: 1800 x 75 ft. / 549 x 23 m

Surface: turf

**RUNWAY 3 RUNWAY 21**

Traffic pattern: left left

Obstructions: none 57 ft. pline, 1400 ft. from runway

**22WN**

**Southwind Airport**  
Dodgeville, Wisconsin, USA



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**FAA INFORMATION EFFECTIVE 26 JULY 2012**

**Location**

FAA Identifier: 22WN

Lat/Long: 43-04-06.9700N / 090-13-10.1400W

43-04.116167N / 090-13.169000W

43.0686028 / -90.2194833

(estimated)

Elevation: 1030 ft. / 314 m (estimated)

Variation: 00W (2000)

From city: 9 miles NW of DODGEVILLE, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53533

**Airport Operations**

Airport use: Private use. Permission required prior to landing

Activation date: 11/2002

Sectional chart: [GREEN BAY](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

Attendance: UNATNDD

Wind indicator: yes

Segmented circle: no

**Runway Information**

**Runway 11/29**

Dimensions: 1800 x 75 ft. / 549 x 23 m

Surface: turf

**RUNWAY 11 RUNWAY 29**

Traffic pattern: left left



## Richland County Airport Data



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: LNR

Lat/Long: 43-12-42.7000N / 090-10-47.4000W

43-12.711667N / 090-10.790000W

43.2118611 / -90.1798333

(estimated)

Elevation: 717.3 ft. / 218.6 m (surveyed)

Variation: 00E (1990)

From city: 2 miles N of LONE ROCK, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53588

**Airport Operations**

Airport use: Open to the public

Activation date: 11/1943

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: LNR (NOTAM-D service available)

Attendance: MON-FRI 0800-1700

Pattern altitude: 1517.3 ft. MSL

Wind indicator: yes

Segmented circle: yes

Lights: MIRL RY 09/27 PRESET LOW INTST DUSK-DAWN; TO INCR INTST &  
ACTVT REIL RY 27; PAPI RY 09/27; MIRL RY 09/27; MIRL RY18/36 - CTAF.

Beacon: white-green (lighted land airport)

Operates sunset to sunrise.

**Airport Communications**

CTAF/UNICOM: 123.0

WX ASOS: 119.425 (608-583-2576)

MADISON APPROACH: 135.45

MADISON DEPARTURE: 135.45

WX AWOS-3 at MRJ (20 nm S): 118.525 (608-987-2157)

- APCH/DEP SERVICE PROVIDED BY CHICAGO ARTCC ON FREQS 133.3/380.35 (LONE ROCK RCAG) WHEN MADISON APCH CTL CLSD.

## Airport Services

Fuel available: 100LL JET-A  
SELF-SERVE FUEL AVBL 24 HRS.

Parking: tiedowns  
Airframe service: MAJOR  
Powerplant service: MINOR  
Bottled oxygen: NONE  
Bulk oxygen: NONE

## Runway Information

### Runway 9/27

Dimensions: 5000 x 75 ft. / 1524 x 23 m  
Surface: asphalt, in good condition  
Weight bearing capacity: Single wheel: 12.5  
Runway edge lights: medium intensity

#### **RUNWAY 9**

Latitude: 43-12.755065N  
Longitude: 090-11.230120W  
Elevation: 714.5 ft.  
Traffic pattern: left  
Runway heading: 090  
Markings: nonprecision, in good condition  
Visual slope indicator: 2-light PAPI on left (3.00 degrees glide path)  
Runway end identifier lights: no  
Touchdown point: yes, no lights  
Instrument approach:  
Obstructions: 34 ft. ant, 1070 ft. from runway, 265 ft. left of centerline, 25:1 slope to clear

#### **RUNWAY 27**

43-12.760740N  
090-10.104785W  
716.7 ft.  
left  
270  
nonprecision, in good condition  
2-light PAPI on left (3.00 degrees glide path)  
yes  
yes, no lights  
LOC/DME  
305 ft. trees, 7000 ft. from runway, 22:1 slope to clear

### Runway 18/36

Dimensions: 1850 x 60 ft. / 564 x 18 m  
Surface: asphalt, in good condition  
Weight bearing capacity: Single wheel: 12.5  
Runway edge lights: medium intensity

#### **RUNWAY 18**

Latitude: 43-12.739153N  
Longitude: 090-11.120877W  
Elevation: 714.6 ft.  
Gradient: 0.7% UP  
Traffic pattern: left  
Runway heading: 180  
Markings: basic, in fair condition  
Touchdown point: yes, no lights  
Obstructions: 15 ft. road, 291 ft. from runway, 6:1

#### **RUNWAY 36**

43-12.434612N  
090-11.124095W  
715.9 ft.  
0.7% DOWN  
left  
360  
basic, in fair condition  
yes, no lights  
15 ft. road, 365 ft. from runway, 11:1

slope to clear  
APCH RATIO 28:1 TO DSPLCD  
THLD.

slope to clear

## **Airport Ownership and Management from official FAA records**

Ownership: Publicly-owned

Owner: SAUK,IOWA,&RICHLAND CO  
IOWA CO COURT HOUSE  
DODGEVILLE, WI 53533  
Phone 608-583-2600

Manager: MARC HIGGS  
E2525 CO. HWY JJ  
SPRING GREEN, WI 53588  
Phone 608-583-2600

## **Airport Operational Statistics**

Aircraft based on the field: 27	Aircraft operations: avg 44/day *
Single engine airplanes: 24	50% transient general aviation
Multi engine airplanes: 2	46% local general aviation
Jet airplanes: 1	3% air taxi
	1% military
	* for 12-month period ending 09 June 2010

**93C****Richland Airport**  
Richland Center, Wisconsin, USA

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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: 93C

Lat/Long: 43-17-00.0870N / 090-17-53.8150W

43-17.001450N / 090-17.896917W

43.2833575 / -90.2982819

(estimated)

Elevation: 742 ft. / 226.2 m (surveyed)

Variation: 02E (1980)

From city: 4 miles SE of RICHLAND CENTER, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 53581

**Airport Operations**

Airport use: Open to the public

Activation date: 01/1947

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: GRB (NOTAM-D service available)

Attendance: IREG

Wind indicator: lighted

Segmented circle: yes

Lights: ACTVT REIL RY 17/35; PAPI RY 17/35; MIRL RY 17/35 - CTAF.

Beacon: white-green (lighted land airport)

Operates sunset to sunrise.

**Runway Information****Runway 17/35**

Dimensions: 3200 x 60 ft. / 975 x 18 m

Surface: asphalt, in good condition

Weight bearing capacity: Single wheel: 12.5

Runway edge lights: medium intensity

**RUNWAY 17**

Latitude: 43-17.298333N

Longitude: 090-18.016000W

Elevation: 742.0 ft.

**RUNWAY 35**

43-16.787167N

090-17.841500W

723.0 ft.



Gradient: 0.6% DOWN	0.6% UP
Traffic pattern: left	left
Runway heading: 164 magnetic, 166 true	344 magnetic, 346 true
Markings: nonprecision, in fair condition	nonprecision, in fair condition
Visual slope indicator: 2-light PAPI on left (3.50 degrees glide path)	2-light PAPI on left (3.50 degrees glide path)
Runway end identifier lights: yes	yes
Touchdown point: yes, no lights	no, no lights
Obstructions: 67 ft. tree, 1550 ft. from runway, 230 ft. left of centerline, 20:1 slope to clear	35 ft. tree, 700 ft. from runway, 140 ft. right of centerline, 14:1 slope to clear

### Runway 9/27

Dimensions: 1500 x 100 ft. / 457 x 30 m  
 Surface: turf, in fair condition  
 Runway edge markings: RY 09/27 MKD WITH WHITE & ORANGE PANELS AND YELLOW CONES.

#### **RUNWAY 9**

Latitude: 43-16.912333N  
 Longitude: 090-17.998000W  
 Elevation: 717.0 ft.  
 Gradient: 0.6%  
 Traffic pattern: left  
 Runway heading: 088 magnetic, 090 true  
 Markings: none  
 Runway end identifier lights: no  
 Obstructions: 15 ft. road, 330 ft. from runway, 22:1 slope to clear

#### **RUNWAY 27**

43-16.914333N  
 090-17.660000W  
 728.0 ft.  
 0.7% UP  
 left  
 268 magnetic, 270 true  
 none  
 no  
 55 ft. tree, 550 ft. from runway, 125 ft. left of centerline, 10:1 slope to clear

### Airport Operational Statistics

Aircraft based on the field: 7	Aircraft operations: avg 25/day *
Single engine airplanes: 3	54% local general aviation
Ultralights: 4	43% transient general aviation
	1% military
	1% air taxi
	* for 12-month period ending 17 June 2011

### Additional Remarks

- ULTRALIGHT ACTVITY ON & IN VCNTY OF ARPT.
- DEER ON & INVOF ARPT.
- RY 09/27 NOT PLOWED; CONFIRM WINTER & SPRING RY CONDITIONS WITH AMGR 608-647-8804.

**39WI**

**S & S Ranch Airport**  
Viola, Wisconsin, USA



---

**FAA INFORMATION EFFECTIVE 26 JULY 2012**

**Location**

FAA Identifier: 39WI

Lat/Long: 43-29-04.9130N / 090-37-11.4670W

43-29.081883N / 090-37.191117W

43.4846981 / -90.6198519

(estimated)

Elevation: 1200 ft. / 366 m (estimated)

Variation: 01E (1985)

From city: 3 miles SE of VIOLA, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 54664

**Airport Operations**

Airport use: Private use. Permission required prior to landing

Activation date: 10/1978

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

Attendance: UNATNDD

Wind indicator: yes

Segmented circle: no

**Runway Information**

**Runway 13/31**

Dimensions: 2200 x 30 ft. / 671 x 9 m

Surface: asphalt

**RUNWAY 13    RUNWAY 31**

Traffic pattern: left

left

## Vernon County Airport Data



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: Y51

Lat/Long: 43-34-45.6970N / 090-53-47.3070W

43-34.761617N / 090-53.788450W

43.5793603 / -90.8964742

(estimated)

Elevation: 1292 ft. / 393.8 m (surveyed)

Variation: 00E (2000)

From city: 2 miles N of VIROQUA, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 54665

**Airport Operations**

Airport use: Open to the public

Activation date: 05/1964

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: MINNEAPOLIS CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: GRB (NOTAM-D service available)

Attendance: UNATNDD

Wind indicator: lighted

Segmented circle: yes

Lights: RY 11-29 HIRLS ON LOW INTST--INCR INTST& ACTIVATE- CTAF.

Beacon: white-green (lighted land airport)

Operates sunset to sunrise.

**Airport Communications**

CTAF: 122.9

WX AWOS-3P: 118.975 (608-637-2925)

- APCH/DEP SVC PRVDD BY MINNEAPOLIS ARTCC ON FREQS 128.6/363.0 ( LA CROSSE RCAG).

**Airport Services**

Fuel available: 100

24 HR FUEL AVAILABLE

Parking: tiedowns

Airframe service: NONE  
Powerplant service: NONE  
Bottled oxygen: NONE  
Bulk oxygen: NONE

## Runway Information

### Runway 11/29

Dimensions: 3345 x 60 ft. / 1020 x 18 m  
Surface: asphalt, in good condition  
Weight bearing capacity: Single wheel: 12.0  
Runway edge lights: high intensity  
Gradient: E.

	<b>RUNWAY 11</b>	<b>RUNWAY 29</b>
Latitude:	43-34.920998N	43-34.693143N
Longitude:	090-54.367638W	090-53.678150W
Elevation:	1270.0 ft.	1291.7 ft.
Gradient:	0.6% UP	
Traffic pattern:	left	left
Runway heading:	114	294
Markings:	nonprecision, in fair condition	nonprecision, in fair condition
Touchdown point:	yes, no lights	yes, no lights
Obstructions:	none	40 ft. trees, 1100 ft. from runway, 30 ft. right of centerline, 22:1 slope to clear

### Runway 2/20

Dimensions: 2531 x 90 ft. / 771 x 27 m  
HAS SHARP 20 FT DROP-OFF EA END & SLOPES DOWNHILL TO THE NORTH APRXLY 1.5%.  
Surface: turf, in good condition  
Runway edge markings: RY 02/20 MKD WITH YELLOW CONES.  
Operational restrictions: CLSD NOV 15 THRU APR 15.

	<b>RUNWAY 2</b>	<b>RUNWAY 20</b>
Latitude:	43-34.508510N	43-34.895973N
Longitude:	090-53.586832W	090-53.376520W
Elevation:	1282.9 ft.	1256.8 ft.
Gradient:	1.0%	1.0%
Traffic pattern:	left	left
Runway heading:	022	202
Touchdown point:	yes, no lights	yes, no lights
Obstructions:	none	71 ft. trees, 2000 ft. from runway, 150 ft. right of centerline, 28:1 slope to clear

## Airport Ownership and Management from official FAA records



Ownership: Publicly-owned  
Owner: CITY OF VIROQUA  
CITY HALL  
VIROQUA, WI 54665  
Phone 608-637-7154  
Manager: MICHAEL SKILDUM  
S7453 SHANNON DRIVE  
VIROQUA, WI 54665  
Phone 608-675-3694  
ADDNL PHONE 608-637-2346.

### **Airport Operational Statistics**

Aircraft based on the field: 23	Aircraft operations: avg 26/day *
Single engine airplanes: 21	73% local general aviation
Helicopters: 1	26% transient general aviation
Ultralights: 1	<1% military
	<1% air taxi
	* for 12-month period ending 07 July 2009



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**FAA INFORMATION EFFECTIVE 26 JULY 2012****Location**

FAA Identifier: HBW

Lat/Long: 43-39-23.9050N / 090-19-41.4630W

43-39.398417N / 090-19.691050W

43.6566403 / -90.3281842

(estimated)

Elevation: 938 ft. / 285.9 m (surveyed)

Variation: 01E (1985)

From city: 1 mile NE of HILLSBORO, WI

Time zone: UTC -5 (UTC -6 during Standard Time)

Zip code: 54634

**Airport Operations**

Airport use: Open to the public

Activation date: 11/1972

Sectional chart: [CHICAGO](#)

Control tower: no

ARTCC: CHICAGO CENTER

FSS: GREEN BAY FLIGHT SERVICE STATION

NOTAMs facility: GRB (NOTAM-D service available)

Attendance: UNATNDD

Pattern altitude: 1938 ft. MSL

Wind indicator: yes

Segmented circle: no

Lights: ACTVT LIRL RY 05/23 - CTAF.

**Runway Information****Runway 5/23**

Dimensions: 3070 x 46 ft. / 936 x 14 m

Surface: asphalt, in good condition

Runway edge lights: non-standard

NSTD LIRL. RY 05 THLD LGTS BLACK (OBSCURED) &amp; GREEN.

RY 23 THLD LGTS LCTD 245 FT FM RELOCATED THLD.

**RUNWAY 5****RUNWAY 23**

Traffic pattern: left

left

Displaced threshold: 733 ft.

no

Markings: basic, in fair condition

basic, in fair condition

Visual slope indicator:

non-standard VASI system  
SINGLE BOX VASI LEFT SIDE  
OPERATES CONTINUOUSLY.

Runway end identifier lights: no

no

Obstructions: 7 ft. fence, 200 ft. from runway, 46 ft.  
left of centerline

15 ft. trees, 200 ft. from runway,  
100 ft. right of centerline

RY 05 7 FT FENCE 0 FT FM THLD  
46 FT L; 62 FT TREES & 30 FT  
HNGR 20 FT FM THLD 100 FT R.

RY 23 5 FT BRUSH 0-200 FT  
FM THLD 125 FT L.

## SECTION 3: PIPELINES

### Discussion

A look at the entire Southwest corner of the State reveals that the only pipelines of concern for Crawford, Iowa, Richland and Vernon Counties are Natural Gas. The only petroleum liquids line runs semi-diagonally across the southern third of Lafayette County. Main-Line diameters range from 3” in northern Vernon County to 12” Iowa County running past the west edge of Dodgeville. Static pressures average around 800 psi. They vary seasonally and by time-of-day from around 750 psi upwards to the low 900’s. In Iowa County, a main-line rupture could truly be devastating – far less so in Vernon County, though still an issue. High Pressure natural gas pipeline safety has been, in recent years, aggressively pursued by the gas supplier association through the Pipeline and Hazardous Materials Safety Administration (PHMSA).

A wealth of information is readily available to EM Directors and First Response personnel chiefs and planners. PHMSA guidance and documents can be found at:

<http://www.phmsa.dot.gov/portal/site/PHMSA>

All the relevant data regarding pipelines in this study area, save the State-wide maps, can be found below.

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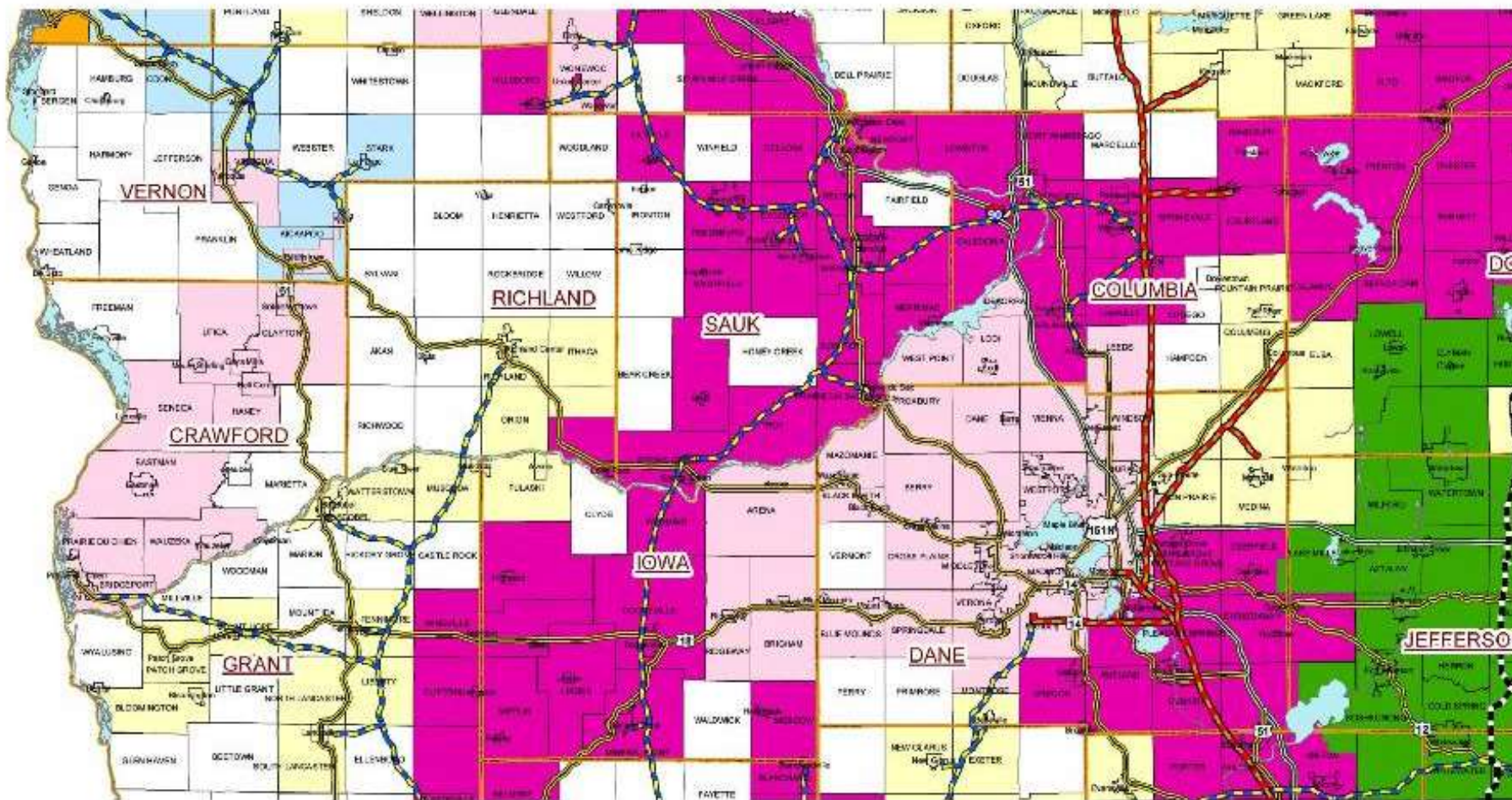
## WISCONSIN, ALL PIPELINE SYSTEMS [LIQUID AND GAS], LEAKS & SPILLS: 2001-2012 YTD

Date	City	Operator	Cause	Sub-Cause	Fatalities	Injuries	Property Damage	Gross Barrels Spilled (Haz Liq)	Net Barrels Lost (Haz Liq)
02/03/2001	ELLINGTON	WISCONSIN GAS CO	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	1	1	\$230,174	N/A	N/A
12/02/2002	BRISTOL	WEST SHORE PIPELINE CO	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	0	\$489,025	1	0
01/24/2003	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	MAT'L/WELD/EQUIP FAILURE	BUTT WELD	0	0	\$3,431,955	4500	50
05/27/2003	TAYCHEEDAH	ALLIANT ENERGY - WISCONSIN POWER & LIGHT CO	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	2	\$0	N/A	N/A
06/17/2003	WEST SALEM	NORTHERN NATURAL GAS CO	MAT'L/WELD/EQUIP FAILURE	BODY OF PIPE	0	0	\$284,833	N/A	N/A
04/02/2004	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	MAT'L/WELD/EQUIP FAILURE	JOINT/FITTING/COMPONENT	0	0	\$11,873	2	0
05/13/2004	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	CORROSION	INTERNAL CORROSION	0	0	\$97,081	40	2
06/18/2004	LACROSSE	NORTHERN STATES POWER CO [WISCONSIN CORP]	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	0	\$593,326	N/A	N/A
11/18/2004	SOMERSET	MIDWEST NATURAL GAS INC	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	0	\$148,848	N/A	N/A
12/30/2005	MILWAUKEE	WISCONSIN GAS COMPANY D/B/A WE-ENERGIES	INCORRECT OPERATION	UNSPECIFIED INCORRECT OPERATION	0	0	\$381,443	N/A	N/A
07/06/2006	TOWN OF LISBON	WISCONSIN GAS COMPANY D/B/A WE-ENERGIES	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	0	\$194,719	N/A	N/A
07/10/2006	ELLISON BAY	CEDAR GROVE RESORT & HARBOR	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	2	4	\$1,554,030	N/A	N/A
07/26/2006	CLEAR LAKE	VIKING GAS TRANSMISSION COMPANY	CORROSION	EXTERNAL CORROSION	0	0	\$305,757	N/A	N/A
01/01/2007	ATWOOD	ENBRIDGE ENERGY LIMITED PARTNERSHIP	MAT'L/WELD/EQUIP FAILURE	PIPE SEAM	0	0	\$762,763	1500	50
02/02/2007	EXELAND	ENBRIDGE ENERGY LIMITED PARTNERSHIP	EXCAVATION DAMAGE	OPERATOR/CONTRACTOR EXCAVATION DAMAGE	0	0	\$4,889,786	4800	2066
02/17/2007	PRESCOTT	ST. CROIX VALLEY NATURAL GAS CO.	OTHER OUTSIDE FORCE DAMAGE	VEHICLE NOT ENGAGED IN EXCAVATION	1	0	\$325,883	N/A	N/A
03/26/2007	SUPERIOR	NORTHERN NATURAL GAS COMPANY	CORROSION	EXTERNAL CORROSION	0	0	\$220,481	N/A	N/A
01/24/2008	HAYWARD	WISCONSIN GAS CO	MAT'L/WELD/EQUIP FAILURE	MALFUNCTION OF CONTROL/RELIEF EQUIPMENT	0	0	\$547,180	N/A	N/A
04/02/2008	OCONOMOWOC	WISCONSIN ELECTRIC - GAS OPS [WE ENERGIES]	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	1	\$1,278	N/A	N/A
08/25/2008	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	CORROSION	INTERNAL CORROSION	0	0	\$53,106	115	7
02/01/2009	MILWAUKEE	WISCONSIN GAS CO	NATURAL FORCE DAMAGE	TEMPERATURE	0	2	\$439,751	N/A	N/A
02/14/2009	GREEN BAY	WEST SHORE PIPELINE CO	CORROSION	EXTERNAL CORROSION	0	0	\$260,149	21	0
03/24/2009	ELLSWORTH	KOCH PIPELINE COMPANY L.P.	MAT'L/WELD/EQUIP FAILURE	NON-THREADED CONNECTION FAILURE	0	0	\$108,623	0	0
05/06/2009	ARKANSAW	NORTHERN NATURAL GAS CO	EXCAVATION DAMAGE	THIRD PARTY EXCAVATION DAMAGE	0	0	\$310,701	N/A	N/A
05/21/2009	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	INCORRECT OPERATION	UNSPECIFIED INCORRECT OPERATION	0	0	\$120,095	154	14
10/28/2009	GOODMAN	ANR PIPELINE CO	NATURAL FORCE DAMAGE	LIGHTNING	0	0	\$240,348	N/A	N/A
11/18/2009		ANR PIPELINE CO	MAT'L/WELD/EQUIP FAILURE	BUTT WELD	0	0	\$215,991	N/A	N/A
06/08/2010	MARSHFIELD	ENBRIDGE ENERGY LIMITED PARTNERSHIP	MAT'L/WELD/EQUIP FAILURE	CONSTRUCTION INSTALLATION OR FAB.-RELATED	0	0	\$307,000	1	0
04/04/2011	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	CORROSION	INTERNAL CORROSION	0	0	\$122,647	0	0
05/02/2011	ST. PETER	GUARDIAN PIPELINE LLC	MAT'L/WELD/EQUIP FAILURE	CONSTRUCTION INSTALLATION OR FAB.-RELATED	0	0	\$262,666	N/A	N/A
09/25/2011	SUPERIOR	ENBRIDGE ENERGY LIMITED PARTNERSHIP	MAT'L/WELD/EQUIP FAILURE	PUMP/COMPRESSOR-RELATED EQUIPMENT	0	0	\$120,100	15	0
01/26/2012	FAIRCHILD	KOCH PIPELINE COMPANY L.P.	ALL OTHER CAUSES	UNKNOWN CAUSE	0	0	\$314,447	14	14
01/31/2012	MILWAUKEE	SHELL PIPELINE CO. L.P.	CORROSION	EXTERNAL CORROSION	0	0	\$14,400,000	215	87
04/25/2012		ANR PIPELINE CO	ALL OTHER CAUSES	UNKNOWN CAUSE	0	0	\$125,500	N/A	N/A
<b>Totals</b>					<b>4</b>	<b>10</b>	<b>\$31,871,572</b>	<b>11378</b>	<b>2290</b>

Table extracted from: [http://primis.phmsa.dot.gov/comm/reports/safety/IncDetSt\\_st\\_WIflt\\_sig.html](http://primis.phmsa.dot.gov/comm/reports/safety/IncDetSt_st_WIflt_sig.html) | Report generated on: 08/06/12



# Natural Gas Pipelines and Service Territories in the Southwest Region

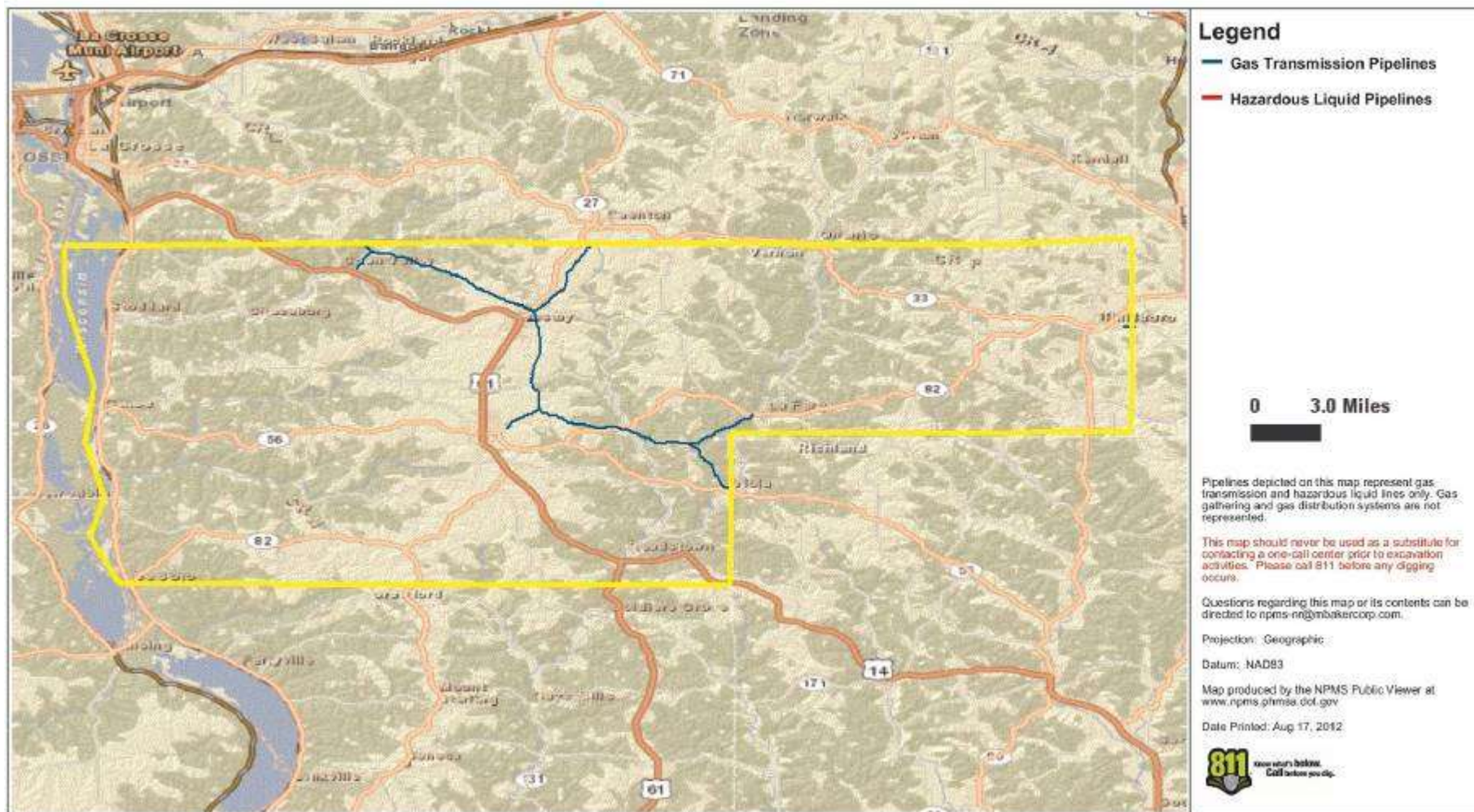


[ Legends are on the “Wisconsin Natural Gas Utility” State Map in **Appendix B** ]

# County Natural Gas Maps



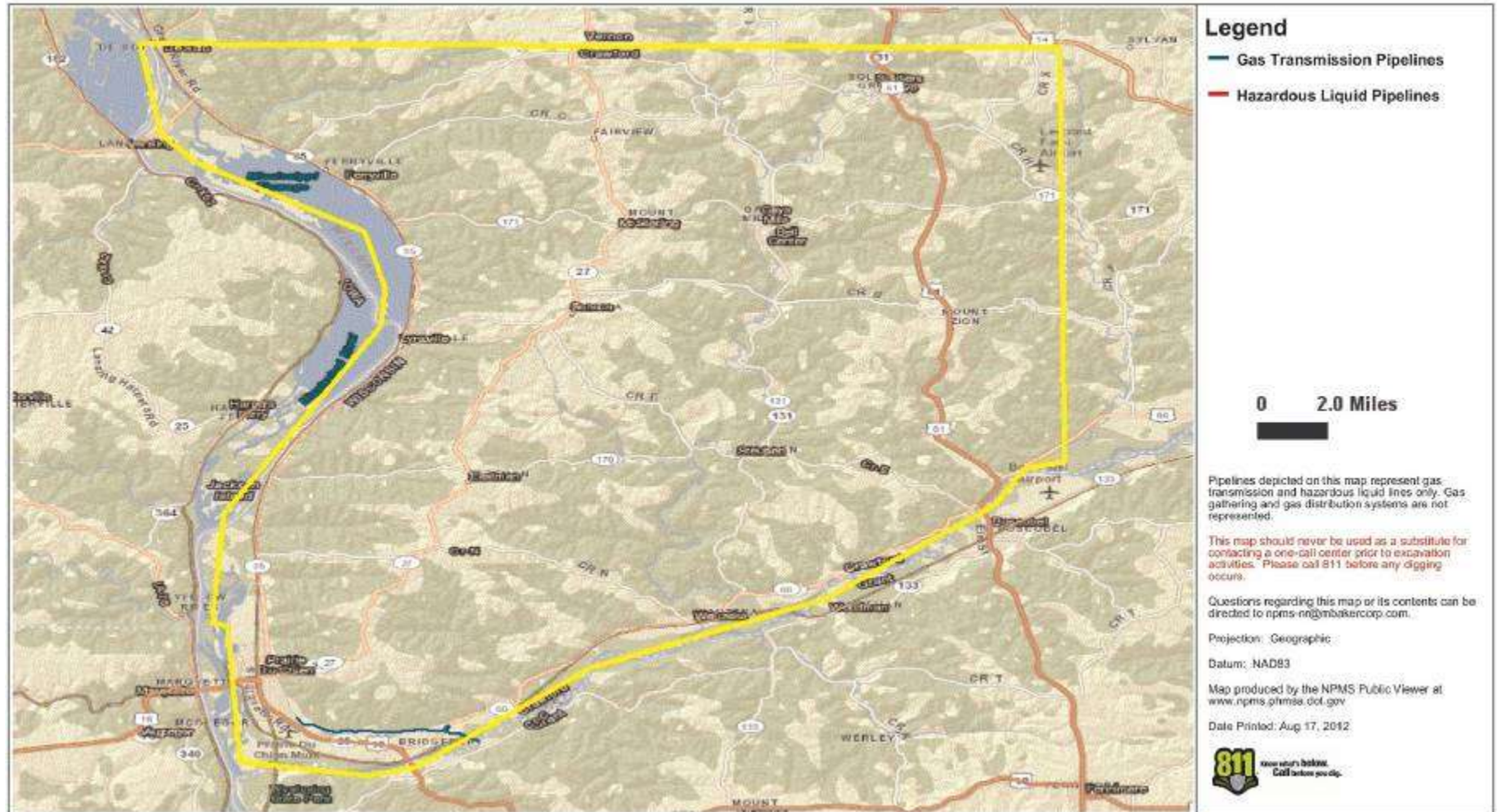
# NATIONAL PIPELINE MAPPING SYSTEM



## Vernon County Pipelines



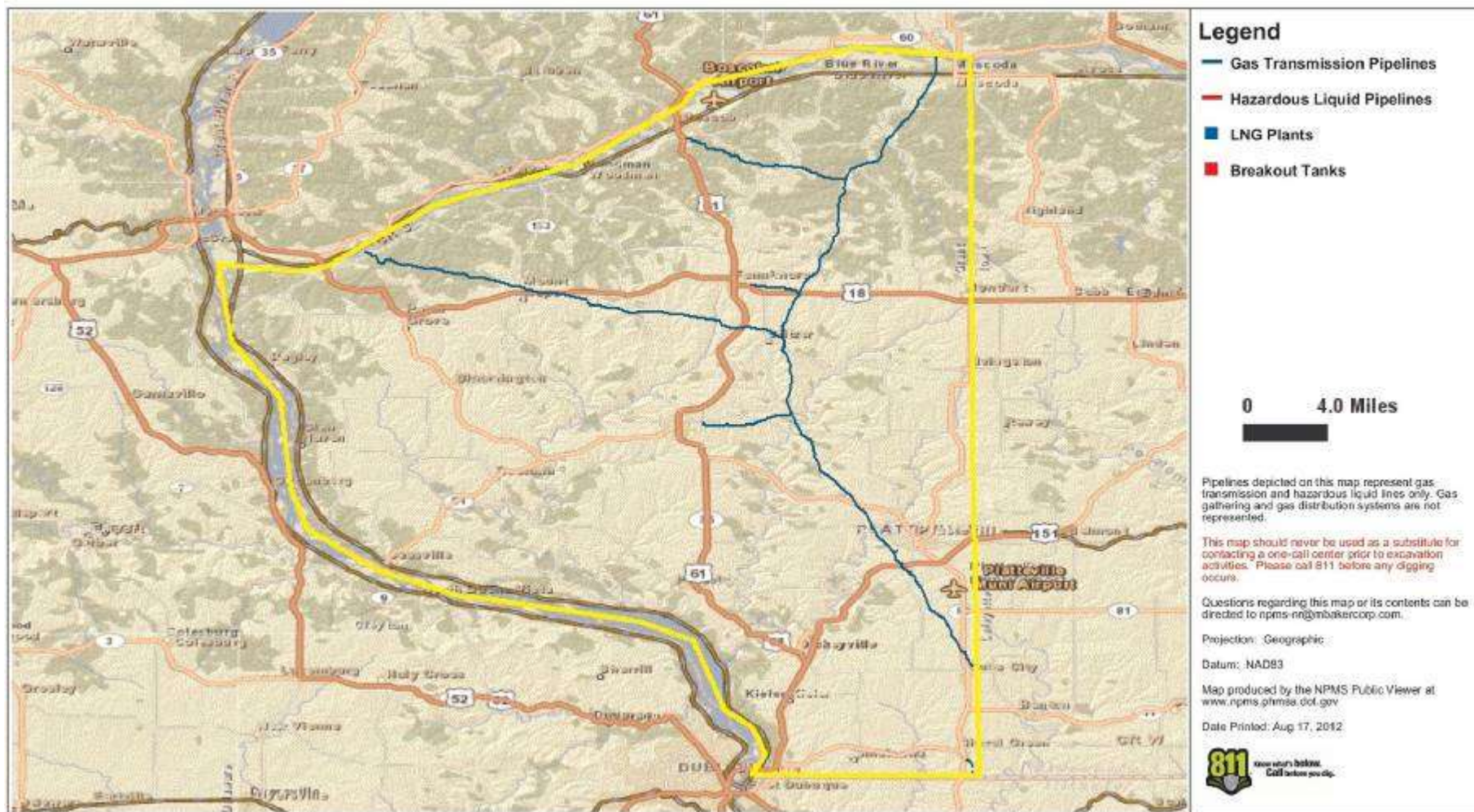
# NATIONAL PIPELINE MAPPING SYSTEM



## Crawford County Pipelines



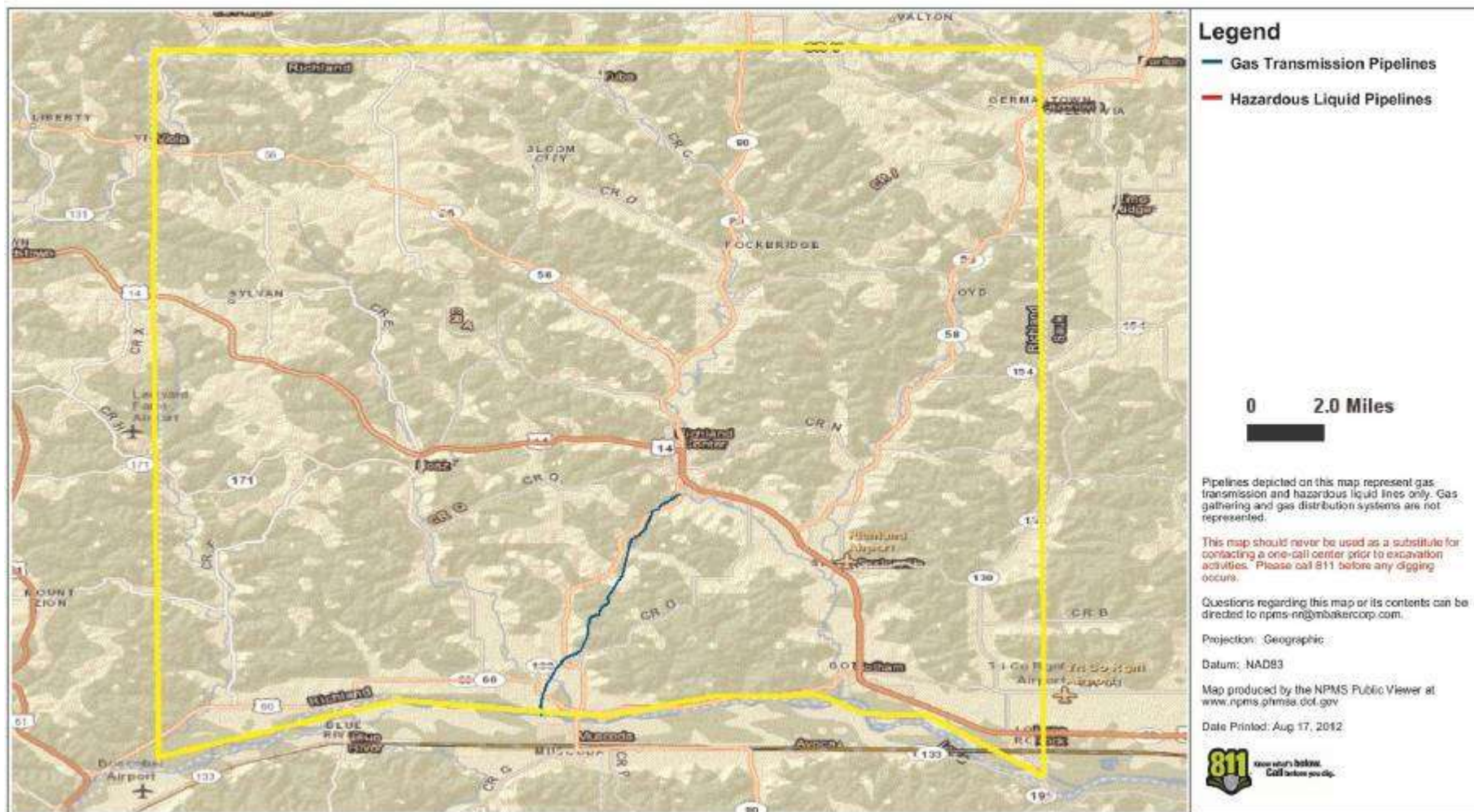
# NATIONAL PIPELINE MAPPING SYSTEM



## Grant County Pipelines



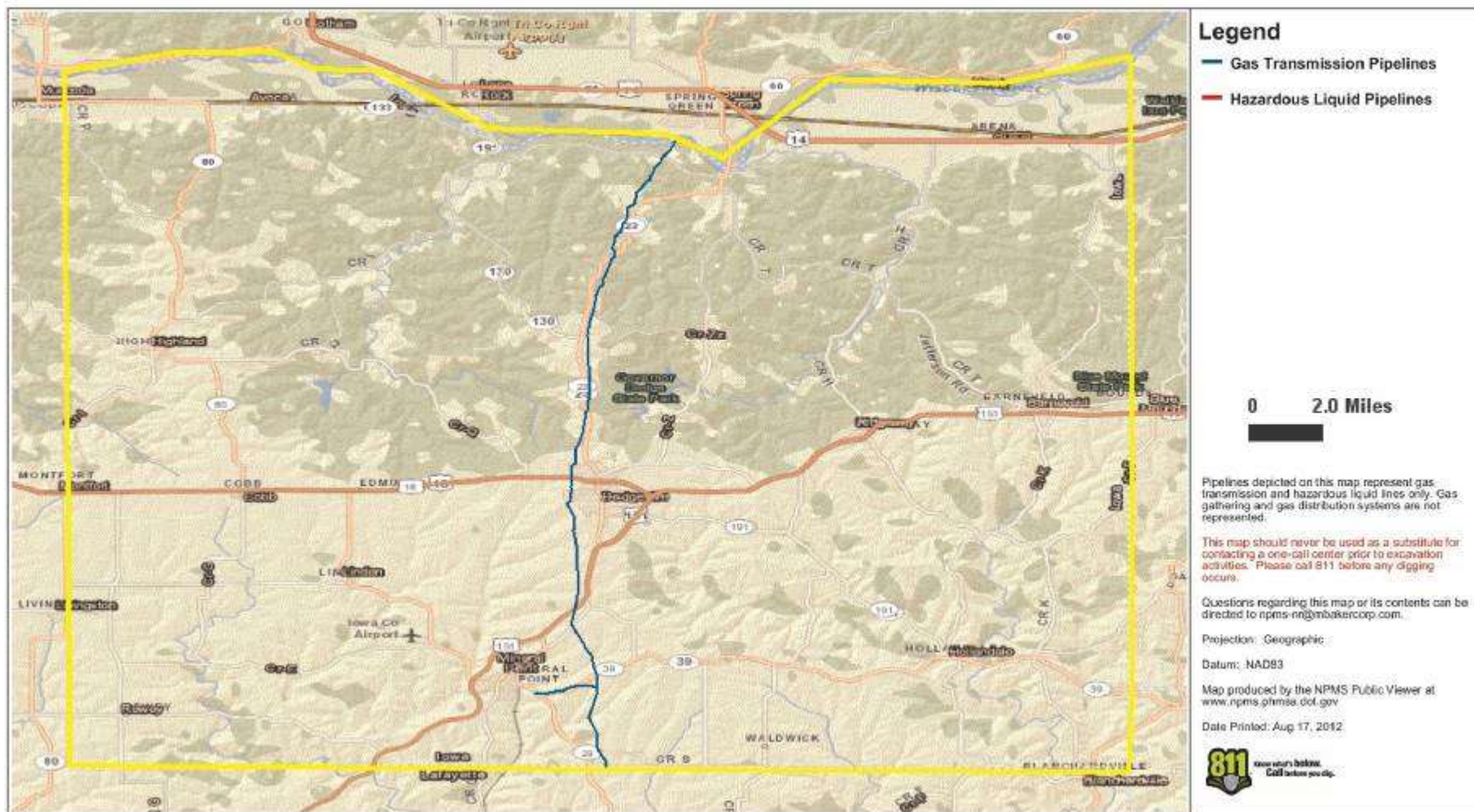
# NATIONAL PIPELINE MAPPING SYSTEM



## Richland County Pipelines



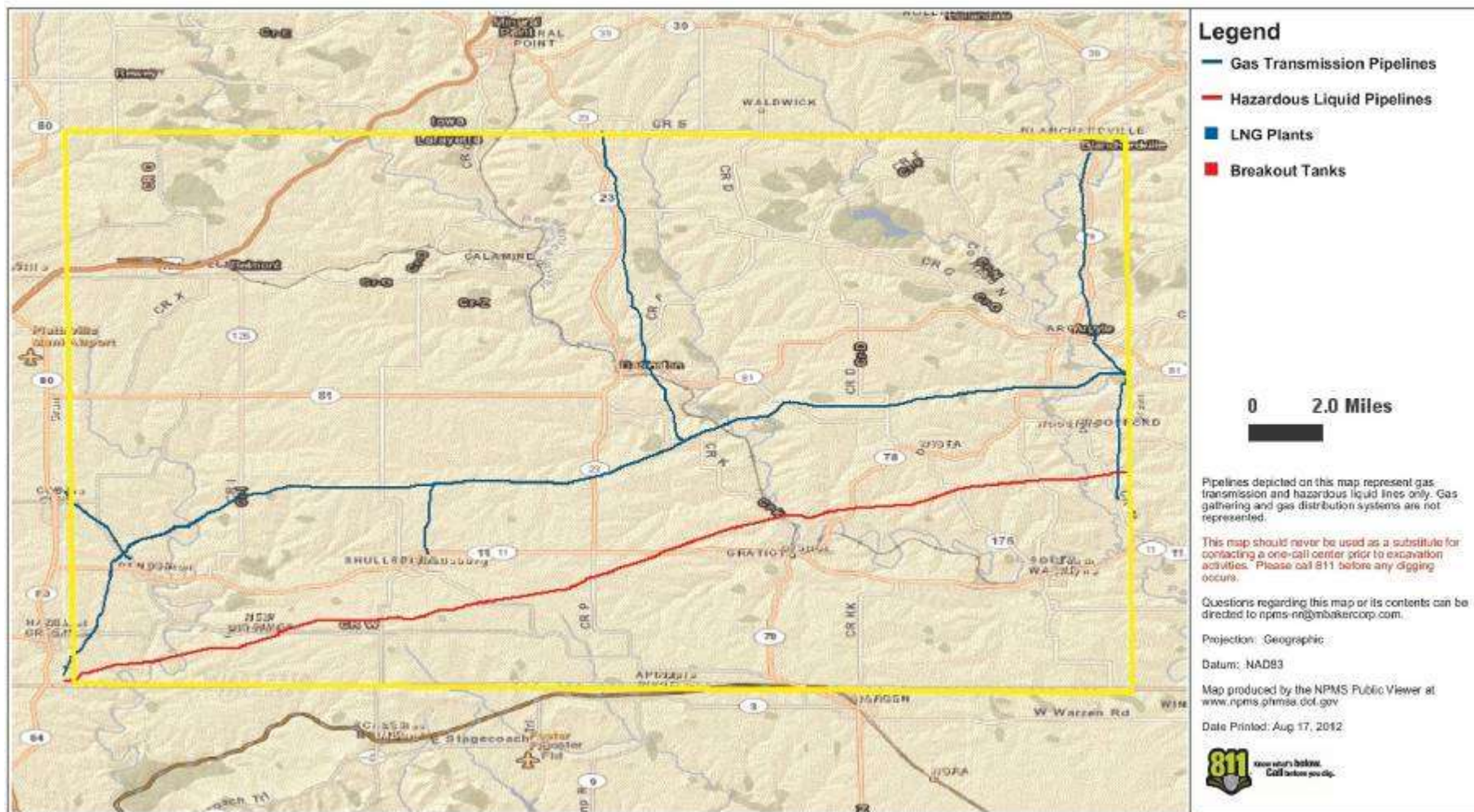
# NATIONAL PIPELINE MAPPING SYSTEM



## Iowa County Pipelines



# NATIONAL PIPELINE MAPPING SYSTEM



## Lafayette County Pipelines

## SECTION 4: RIVER BARGES

### Discussion

Due to the drought during the 2 months that preceded the study, the day of the observations, there was only one barge that went through Lock 8 in Genoa. However, during the initial scouting drives along the river to characterize road, rail and river traffic for purposes of ‘design of study’, there were indeed several barges traveling up- and down-stream on the Mississippi.

In light of those findings, a thorough evaluation of historical data was conducted and numerous research audits of the information made available on-line by the US Army Corps of Engineers were made. Using 2007 as an economically robust year for a benchmark, and comparing it with 2012, some startling revelations were made regarding the enormous amount of commodity that, even under lean conditions, go up and down the river every day.

Locks 8, 9 and 10 were chosen to catch product flowing from the south up to Prairie du Chien and from the north down to Genoa. Lock 7 in La Crosse was surveyed and appeared to skew the numbers and so was not included.

Shown in the data tables below are a one-month to one-month in 2012 comparison, and two sets of 5-Year averages for each lock, all commodities, going back to 2000. Given the sheer volume of materials, their relative hazard and the difficulty of spill release control on the river, there appears to be a respectable need for coordination between river authorities, barge operators and first responders. To the extent Vernon and Crawford County personnel and/or assets would be expected to respond to an incident, plans and exercises intended to address a river waterway incident should be pursued expeditiously, assuming they haven’t already been drafted and tested.

As shown in **Section 1**, besides the news release included below about the oil spill in Louisiana, there haven’t been any significant spills to report in recent times. There are numerous smaller incidents, on the other hand, that occur relatively frequently involving other craft on the river. Ergo, there is impetus for preparedness. A copy of the “Upper Mississippi River Hazardous Spills Response Plan” can be accessed at: <http://www.umrba.org/hazspills/umrplan.pdf>

Additional background information about the Mississippi River and Barges is included here for reference:

### Navigation on the River

Navigation is travel or transportation over water. Many different kinds of boats and vessels are used on the river to move people and products from one place to another. Navigation was extremely important for foreign and domestic trade and travel in the early days of our country before cars, trucks, trains, and airplanes were invented. In those days, rivers were used as “roads” to connect inland settlements to river and coastal ports. Communities established at these commercial ports became important economic, cultural and social hubs in the development of our nation.

Many of the products we use and eat today are still transported by vessels on river or inland waterways. Towboats push barges loaded with products such as grain, coal and petroleum up and down rivers to loading and unloading facilities.

The most common way of transporting products on rivers is by tow. A tow consists of one towboat and one or more barges. Towboats push different types of barges, depending on the cargo.



### There are four basic types of barges:

- Covered dry cargo barges carry bulky solid cargo, such as dry cement, fertilizer and farm products that need protection from the weather.
- Open hopper barges hold bulky products, such as sand, gravel or coal, which do not need protection from the weather.
- Liquid cargo barges carry liquid products such as chemicals, petroleum, oil and molasses.
- The fourth type is a deck barge, which carries almost any kind of equipment, materials or products that can be tied down and do not need protection from the weather.

Taken at Genoa on the 2<sup>nd</sup> of August, 2012:



## The 9-Foot Project

Despite the Corps's channel improvement efforts, navigation died on the upper river. By 1918, virtually no through traffic moved between St. Paul, Minn., and St. Louis, Mo. Fearing the Midwest would become an economic backwater without a diverse transportation system, the business and navigation interests initiated another movement to revive navigation. Between 1925 and 1930, they fought to restore commerce and to persuade Congress to authorize a new project for the river, one that would truly compete with railroads. They would draw support from the largest and smallest businesses in the valley, from most of its cities, from Midwest's principal farm organizations and from major political parties. Responding to this movement, Congress included the 9-foot channel project in the 1930 Rivers and Harbors Act.

With the 9-foot channel project, Congress authorized a new approach to navigation improvements on the Mississippi River. Rather than narrowing the river and depending solely on the flow of water from the basin, Congress approved 23 locks and dams to be built to store water in reservoirs or pools. Only in this way, the engineers insisted, could they guarantee a 9-foot channel.

The project began in 1931 at Lock and Dam 15 in Rock Island, Ill., which was the most difficult spot to navigate. In 1940, the Corps completed the 9-foot channel projects (locks and dam 3-26). Twenty-six locks and dams now crossed the river between Minneapolis, Minn. and Alton, Ill. Lock and Dam 19 had been completed in 1913, Lock and Dam 1 in 1917 and Lock and Dam 2 in 1930. Lower and Upper St. Anthony Falls Locks and Dams were completed in 1956 and 1963 and Lock and Dam 27 in 1964, bringing the total to 29. With a consistently deep and reliable channel, commerce returned to the river. Today, more than 90-million tons of commerce moves on the upper river annually.

# Mississippi River Barge Collision Leads To Oil Spill

LAPLACE, La. (AP) — An oil tanker barge collided with another barge Friday on the Mississippi, spilling oil and leading officials to close a five-mile stretch of the river, the U.S. Coast Guard said. Officials said the collision happened around 2 a.m. about 50 miles upriver from New Orleans. The wreck tore a gash into the double-hulled tank of the tanker barge, which was being pushed by a tugboat.

The collision tore a 10-foot by 5-foot gash above the waterline of the double-hulled tanker barge and oil spewed into the river, the Coast Guard said. Neither vessel sank and no one was hurt, Chief Petty Officer John Edwards said. He said the leak has been contained. The tank contained about 148,000 gallons of oil, but the spill was substantially less than the tank's contents, the Coast Guard said.

A cleanup company has been hired to deal with the spill. St. Charles Parish shut down both of its water intakes from the river, though officials said there is no threat to the public. The section of river where the crash occurred is part of a busy shipping and industrial corridor that stretches from New Orleans north to Baton Rouge. It is lined by refineries, chemical plants and the massive Port of South Louisiana, which handles much of the grain exported from farms in the U.S. heartland. Their operations did not appear to be seriously hampered by the closing of the river. However, the Coast Guard did not know Friday how long the river might be closed while the investigation and clean-up continue.

First Posted: 02/17/2012 8:12 am

Updated: 02/17/2012 5:24 pm

## Lock Information:

### Lock and Dam 8

#### Overview

- Located on Mississippi River mile 679.2 near Genoa, Wis.
- Constructed and put into operation by April 1937. Site underwent major rehabilitation from 1989 through 2003.
- Dam consists of a concrete structure 934 feet long with five roller gates and 10 tainter gates. Earth embankment 17,500 feet long with two submersible spillways, 938 feet long and 1,338 feet long.
- Lock is 110 feet wide by 600 feet long.



### Lock and Dam 9

#### Overview

- Located on Mississippi River mile 647.9 near Lynxville, Wis.
- Constructed and placed in operation in July 1937. The site underwent major rehabilitation from 1989 to 2006.
- The dam consists of concrete structure 811 feet long with five roller gates and eight tainter gates. Earth embankment 9,800 feet long with a grouted overflow spillway 1,350 feet long.
- Lock is 110 feet wide by 600 feet long.



### Lock and Dam 10

- Located on Mississippi River mile 615.0 near Guttenberg, Iowa.
- Constructed and placed in operation November 1937. Site is undergoing major rehabilitation which began in 1989 and is scheduled for completion in 2006.
- Dam consists of a concrete dam 763 feet long with four roller gates and eight tainter gates. Earth embankment is 6,000 feet long with a concrete spillway 1,200 feet long.
- Lock is 110 feet wide by 600 feet long.





## Aerial Maps of the Mississippi River and 3 Locks



La Crosse-Genoa, Locks 7 & 8



Genoa-Lynxville, Lock 9



Lynxville, Prairie du Chien



Lock 8, Genoa



Lock 9, Lynxville



Lock 10, Guttenberg, IA





Upper Mississippi River  
Barge Commodity Type  
and  
Lock Tonnage Data



## US Army Corps of Engineers

### Lock Performance Monitoring System

Summarized Monthly Tonnage Report: LOCK AND DAM 8, for [June 2012](#)

<u>Commodity Code</u>	<u>Description</u>	<u>Total Tons (Thousands)</u>
10	Coal, Lignite And Coke	25.50
20	Petroleum and Petroleum Products	36.30
30	Chemicals and Related Products	114.10
40	Crude Materials, Inedible, except Fuels	253.52
50	Primary Manufactured Goods	134.09
60	Food and Farm Products	677.20
70	All Manufactured Equipment and Machinery	
<b>Total Tons:</b>		<b>1240.71</b>

Summarized Monthly Tonnage Report: LOCK AND DAM 9, for [June 2012](#)

<u>Commodity Code</u>	<u>Description</u>	<u>Total Tons (Thousands)</u>
10	Coal, Lignite And Coke	125.24
20	Petroleum and Petroleum Products	37.30
30	Chemicals and Related Products	119.60
40	Crude Materials, Inedible, except Fuels	269.27
50	Primary Manufactured Goods	136.79
60	Food and Farm Products	686.40
70	All Manufactured Equipment and Machinery	
<b>Total Tons:</b>		<b>1374.60</b>

Summarized Monthly Tonnage Report: LOCK AND DAM 10, for [June 2012](#)

<u>Commodity Code</u>	<u>Description</u>	<u>Total Tons (Thousands)</u>
10	Coal, Lignite And Coke	129.94
20	Petroleum and Petroleum Products	36.30
30	Chemicals and Related Products	118.60
40	Crude Materials, Inedible, except Fuels	276.85
50	Primary Manufactured Goods	137.29
60	Food and Farm Products	877.50
70	All Manufactured Equipment and Machinery	12.70
<b>Total Tons:</b>		<b>1589.18</b>



## US Army Corps of Engineers

### Lock Performance Monitoring System

Summarized Monthly Tonnage Report: LOCK AND DAM 8, for [August 2012](#)

<u>Commodity Code</u>	<u>Description</u>	<u>Total Tons (Thousands)</u>
10	Coal, Lignite And Coke	36.70
20	Petroleum and Petroleum Products	25.90
30	Chemicals and Related Products	193.00
40	Crude Materials, Inedible, except Fuels	271.80
50	Primary Manufactured Goods	111.50
60	Food and Farm Products	405.90
70	All Manufactured Equipment and Machinery	3.20
<b>Total Tons:</b>		<b>1048.00</b>

Summarized Monthly Tonnage Report: LOCK AND DAM 9, for [August 2012](#)

<u>Commodity Code</u>	<u>Description</u>	<u>Total Tons (Thousands)</u>
10	Coal, Lignite And Coke	323.50
20	Petroleum and Petroleum Products	26.90
30	Chemicals and Related Products	188.50
40	Crude Materials, Inedible, except Fuels	279.20
50	Primary Manufactured Goods	131.20
60	Food and Farm Products	437.40
70	All Manufactured Equipment and Machinery	3.54
<b>Total Tons:</b>		<b>1390.24</b>

Summarized Monthly Tonnage Report: LOCK AND DAM 10, for [August 2012](#)

<u>Commodity Code</u>	<u>Description</u>	<u>Total Tons (Thousands)</u>
10	Coal, Lignite And Coke	323.70
20	Petroleum and Petroleum Products	25.90
30	Chemicals and Related Products	236.50
40	Crude Materials, Inedible, except Fuels	280.95
50	Primary Manufactured Goods	131.20
60	Food and Farm Products	471.60
70	All Manufactured Equipment and Machinery	4.04
<b>Total Tons:</b>		<b>1473.89</b>



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## Report 23b - Lock Commodities 6 yrs with 5 yr Average

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Commodity	<a href="#">Cd</a>	01-01-2000 to 12-31-2000	01-01-2001 to 12-31-2001	01-01-2002 to 12-31-2002	01-01-2003 to 12-31-2003	01-01-2004 to 12-31-2004	5 year Average	01-01-2005 to 12-31-2005
Coal, Lignite, & Coke*	10	983,912	857,035	789,638	811,542	1,078,505	904,126	913,628
Petroleum & Petroleum Products*	20	34,590	52,105	36,500	26,000	22,200	34,279	18,313
Crude Petroleum	21	0	15,300	13,600	0	0	5,780	0
Gasoline, Jet Fuel, Kerosene	22	13,500	9,300	39,687	34,702	1,500	19,738	23,503
All Fuel Oils; Lubricating Oils & Greases	23	183,055	51,524	82,742	56,549	96,410	94,056	26,200
Pitches, Asphalt, Naphtha, Solvents	24	404,985	68,409	242,288	268,805	231,618	243,221	383,743
Chemicals & Related Products*	30	137,734	169,252	105,364	107,089	94,853	122,858	120,450

<b>All Chemical Fertilizers</b>	31	1,685,996	1,349,235	1,540,372	1,702,467	1,380,848	1,531,784	1,093,335
<b>All Other Chemical Related Products</b>	32	97,277	89,713	122,917	81,915	136,447	105,654	184,503
<b>Crude Materials, Inedible, Except Fuels*</b>	40	7,600	6,194	9,094	33,320	7,824	12,806	10,872
<b>Forest Products, Lumber, Logs, Woodchips</b>	41	4,600	1,630	6,100	6,264	16,841	7,087	3,111
<b>Pulp, Waste Products</b>	42	1,550	0	3,035	6,100	6,400	3,417	17,600
<b>Sand, Gravel, All Stone &amp; Crushed Rock</b>	43	306,208	419,120	539,851	381,597	659,286	461,212	652,668
<b>Iron Ore; Iron Steel Waste &amp; Scrap</b>	44	204,178	151,584	174,461	172,345	311,991	202,912	218,522
<b>Marine Shells, Unmanufactured</b>	45	0	5,924	0	3,124	6,403	3,090	4,500
<b>Non-ferrous Metallic Ores, Waste &amp; Scrap</b>	46	42,950	28,894	24,546	27,824	55,333	35,909	31,003
<b>Sulphur, Liquid &amp; Dry; Clay; Salt</b>	47	581,176	908,887	741,167	718,233	795,140	748,921	933,676
<b>Slag</b>	48	91,801	55,373	60,372	105,954	112,474	85,195	124,947



<b>Primary Manufactured Goods*</b>	50	1,552	12,200	3,200	0	1,500	3,690	1,500
<b>Paper &amp; Allied Products</b>	51	1,500	0	0	0	6,000	1,500	0
<b>Building Cement &amp; Concrete; Lime; Glass</b>	52	590,273	425,545	631,150	579,401	975,145	640,303	898,718
<b>Primary Iron &amp; Steel Products</b>	53	230,769	181,632	194,987	153,846	152,683	182,783	166,988
<b>Primary Non-Ferrous &amp; Fabricated Metal</b>	54	8,500	6,000	6,254	9,477	18,035	9,653	3,000
<b>Primary Wood Products; Veneer, Plywood</b>	55	3,100	0	3,000	0	3,000	1,820	0
<b>Food &amp; Farm Products*</b>	60	471,239	589,232	304,576	494,274	265,054	424,875	202,624
<b>Fresh Fish &amp; Other Marine Products</b>	61	2,900	43,500	7,625	1,535	4,600	12,032	6,283
<b>Wheat</b>	62	410,330	342,682	400,229	380,505	249,075	356,564	225,144
<b>Corn</b>	63	6,472,002	4,966,727	6,326,017	5,302,627	3,965,912	5,406,657	3,692,689
<b>Rye, Barley, Rice, Sorghum &amp; Oats</b>	64	141,148	54,580	105,421	66,519	54,264	84,386	72,300
<b>Oilseeds-Soybeans,</b>	65	1,861,703	1,331,713	2,289,123	1,186,607	379,087	1,409,647	679,765

<b>Flaxseed &amp; Others</b>								
<b>Vegetable Products</b>	66	28,600	12,000	29,061	10,513	6,059	17,247	3,000
<b>Animal Feed, Grain Mil, Processed Grains</b>	67	486,677	283,224	126,281	310,672	334,694	308,310	271,285
<b>Other Agricultural Products inc food&amp;kin</b>	68	60,701	28,783	56,984	65,085	100,852	62,481	42,859
<b>All Manufactured Equipment &amp; Machinery*</b>	70	21,200	8,428	26,180	24,296	11,354	18,292	27,650
<b>Waste Matl, Garbage, Landfill, Sewage..</b>	80	1,500	0	0	0	0	300	0
<b>Commodity is Unknown</b>	99	295,742	229,451	289,972	31,637	28,108	174,982	35,621
<b>Total for all Commodities</b>		<b>15,870,548</b>	<b>12,755,176</b>	<b>15,331,794</b>	<b>13,160,824</b>	<b>11,569,495</b>	<b>13,737,567</b>	<b>11,090,000</b>



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## Report 23b - Lock Commodities 6 yrs with 5 yr Average

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Commodity	<a href="#">Cd</a>	01-01-2006 to 12-31-2006	01-01-2007 to 12-31-2007	01-01-2008 to 12-31-2008	01-01-2009 to 12-31-2009	01-01-2010 to 12-31-2010	5 year Average	01-01-2011 to 12-31-2011
Coal, Lignite, & Coke*	10	1,059,207	1,168,235	833,139	674,902	535,497	854,196	391,427
Petroleum & Petroleum Products*	20	27,000	49,752	5,000	31,400	4	22,631	6,402
Crude Petroleum	21	7,500	12,000	2,500	0	6,000	5,600	0
Gasoline, Jet Fuel, Kerosene	22	0	12,000	0	0	0	2,400	0
All Fuel Oils; Lubricating Oils & Greases	23	71,400	82,313	49,300	48,200	55,822	61,407	9,400
Pitches, Asphalt, Naphtha, Solvents	24	206,296	346,408	156,476	424,700	351,976	297,171	268,000
Chemicals & Related Products*	30	171,706	149,432	116,172	98,207	35,616	114,227	20,541

<b>All Chemical Fertilizers</b>	31	911,256	1,158,953	1,123,838	954,741	1,367,291	1,103,216	1,646,401
<b>All Other Chemical Related Products</b>	32	140,562	327,664	108,186	88,939	198,471	172,764	147,028
<b>Crude Materials, Inedible, Except Fuels*</b>	40	1,624	0	3,124	23,210	3,244	6,240	1,500
<b>Forest Products, Lumber, Logs, Woodchips</b>	41	9,459	3,248	0	0	0	2,541	3,000
<b>Pulp, Waste Products</b>	42	0	0	1,500	0	3,000	900	4,949
<b>Sand, Gravel, All Stone &amp; Crushed Rock</b>	43	668,788	601,852	611,404	539,825	532,915	590,957	429,329
<b>Iron Ore; Iron Steel Waste &amp; Scrap</b>	44	252,915	252,115	357,260	401,147	430,729	338,833	450,922
<b>Marine Shells, Unmanufactured</b>	45	3,035	1,550	1,500	0	6,100	2,437	1,600
<b>Non-ferrous Metallic Ores, Waste &amp; Scrap</b>	46	42,248	42,324	62,453	45,841	15,660	41,705	34,000
<b>Sulphur, Liquid &amp; Dry; Clay; Salt</b>	47	1,022,802	665,253	989,469	993,362	663,428	866,863	814,737
<b>Slag</b>	48	49,012	88,419	102,302	100,095	91,640	86,294	120,353

<b>Primary Manufactured Goods*</b>	50	0	3,200	12,623	1,500	1,500	3,765	1,300
<b>Paper &amp; Allied Products</b>	51	0	3,000	4,570	0	0	1,514	1,500
<b>Building Cement &amp; Concrete; Lime; Glass</b>	52	827,067	447,063	288,840	387,408	663,505	522,777	912,283
<b>Primary Iron &amp; Steel Products</b>	53	235,389	152,738	118,801	44,916	39,259	118,221	41,217
<b>Primary Non-Ferrous &amp; Fabricated Metal</b>	54	1,500	12,100	4,624	0	0	3,645	0
<b>Primary Wood Products; Veneer, Plywood</b>	55	1,600	0	0	0	0	320	0
<b>Food &amp; Farm Products*</b>	60	182,100	139,500	82,818	127,700	36,000	113,624	50,892
<b>Fresh Fish &amp; Other Marine Products</b>	61	4,800	0	1,640	9,100	0	3,108	0
<b>Wheat</b>	62	89,760	156,130	120,000	162,366	144,100	134,471	70,700
<b>Corn</b>	63	4,634,573	4,045,896	1,634,540	3,068,002	3,628,864	3,402,375	3,605,208
<b>Rye, Barley, Rice, Sorghum &amp; Oats</b>	64	37,500	78,224	37,936	48,144	63,182	52,997	101,360
<b>Oilseeds-Soybeans,</b>	65	680,703	759,313	890,786	1,452,446	1,033,282	963,306	855,172



<b>Flaxseed &amp; Others</b>								
<b>Vegetable Products</b>	66	4,500	16,700	3,000	13,570	10,600	9,674	1,500
<b>Animal Feed, Grain Mil, Processed Grains</b>	67	299,180	246,787	75,383	267,573	441,100	266,005	226,300
<b>Other Agricultural Products inc food&amp;kin</b>	68	22,800	27,487	13,949	29,072	18,900	22,442	27,750
<b>All Manufactured Equipment &amp; Machinery*</b>	70	13,265	18,904	95,272	29,107	24,100	36,130	16,460
<b>Multi-commodities shipped on Pallets</b>	92	0	0	0	0	0	0	1,600
<b>Commodity is Unknown</b>	99	32,780	9,070	20,041	19,600	57,141	27,726	14,400
<b>Total for all Commodities</b>		<b>11,712,327</b>	<b>11,077,630</b>	<b>7,928,446</b>	<b>10,085,073</b>	<b>10,458,926</b>	<b>10,252,480</b>	<b>10,277,231</b>



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Commodity	<a href="#">Cd</a>	01-01-2000 to 12-31-2000	01-01-2001 to 12-31-2001	01-01-2002 to 12-31-2002	01-01-2003 to 12-31-2003	01-01-2004 to 12-31-2004	5 year Average	01-01-2005 to 12-31-2005
Coal, Lignite, & Coke*	10	2,797,914	2,532,238	2,744,583	2,627,562	2,782,641	2,696,988	3,192,209
Petroleum & Petroleum Products*	20	34,590	58,105	36,500	26,000	22,200	35,479	18,313
Crude Petroleum	21	0	17,900	13,600	0	0	6,300	0
Gasoline, Jet Fuel, Kerosene	22	13,500	9,300	39,687	25,702	1,500	17,938	23,503
All Fuel Oils; Lubricating Oils & Greases	23	188,655	42,524	84,242	56,549	96,410	93,676	26,200
Pitches, Asphalt, Naphtha, Solvents	24	399,085	68,409	240,988	276,905	231,618	243,401	383,717
Chemicals & Related Products*	30	137,734	172,566	105,399	110,229	93,353	123,856	120,894

<b>All Chemical Fertilizers</b>	31	1,690,641	1,354,550	1,559,594	1,702,917	1,358,358	1,533,212	1,091,435
<b>All Other Chemical Related Products</b>	32	126,327	99,213	124,517	83,415	136,447	113,984	184,603
<b>Crude Materials, Inedible, Except Fuels*</b>	40	7,600	7,694	9,094	33,320	7,824	13,106	10,872
<b>Forest Products, Lumber, Logs, Woodchips</b>	41	4,600	1,630	6,100	6,264	15,259	6,771	3,111
<b>Pulp, Waste Products</b>	42	1,550	0	3,035	4,600	6,400	3,117	17,600
<b>Sand, Gravel, All Stone &amp; Crushed Rock</b>	43	277,208	408,040	552,951	377,022	647,286	452,501	659,048
<b>Iron Ore; Iron Steel Waste &amp; Scrap</b>	44	202,802	147,077	171,709	169,345	315,297	201,246	218,522
<b>Marine Shells, Unmanufactured</b>	45	0	5,924	4,500	3,124	6,403	3,990	4,500
<b>Non-ferrous Metallic Ores, Waste &amp; Scrap</b>	46	41,450	30,394	24,546	31,124	55,333	36,569	34,073
<b>Sulphur, Liquid &amp; Dry; Clay; Salt</b>	47	583,595	911,151	740,607	726,053	793,740	751,029	933,931
<b>Slag</b>	48	93,301	59,873	69,916	105,954	112,474	88,304	124,947

<b>Primary Manufactured Goods*</b>	50	1,552	12,200	3,200	0	1,500	3,690	1,500
<b>Paper &amp; Allied Products</b>	51	1,500	0	0	0	6,000	1,500	0
<b>Building Cement &amp; Concrete; Lime; Glass</b>	52	579,913	444,881	632,650	582,601	977,174	643,444	901,953
<b>Primary Iron &amp; Steel Products</b>	53	243,169	197,481	203,091	160,062	157,318	192,224	165,768
<b>Primary Non-Ferrous &amp; Fabricated Metal</b>	54	4,000	6,000	6,254	9,477	18,035	8,753	3,000
<b>Primary Wood Products; Veneer, Plywood</b>	55	3,100	0	3,000	0	3,000	1,820	0
<b>Food &amp; Farm Products*</b>	60	481,239	617,832	309,076	494,274	254,589	431,402	216,708
<b>Fresh Fish &amp; Other Marine Products</b>	61	1,400	43,500	7,625	1,535	4,600	11,732	6,283
<b>Wheat</b>	62	408,830	341,500	398,729	380,785	250,575	356,084	231,144
<b>Corn</b>	63	6,523,312	4,960,995	6,352,442	5,323,627	3,961,412	5,424,358	3,686,189
<b>Rye, Barley, Rice, Sorghum &amp; Oats</b>	64	141,148	53,080	105,421	66,519	54,264	84,086	72,300
<b>Oilseeds-Soybeans,</b>	65	1,831,523	1,345,613	2,287,623	1,183,607	380,587	1,405,791	675,265

<b>Flaxseed &amp; Others</b>								
<b>Vegetable Products</b>	66	28,600	12,000	29,061	10,513	6,059	17,247	3,000
<b>Animal Feed, Grain Mil, Processed Grains</b>	67	489,777	299,724	126,281	292,672	334,694	308,630	271,533
<b>Other Agricultural Products inc food&amp;kin</b>	68	62,301	30,283	56,984	65,085	100,852	63,101	44,359
<b>All Manufactured Equipment &amp; Machinery*</b>	70	3,200	7,228	17,180	18,296	7,584	10,698	32,050
<b>Waste Matl, Garbage, Landfill, Sewage..</b>	80	1,500	0	0	0	0	300	0
<b>Commodity is Unknown</b>	99	335,411	271,451	281,936	40,637	56,108	197,109	37,106
<b>Total for all Commodities</b>		<b>17,742,027</b>	<b>14,570,356</b>	<b>17,352,121</b>	<b>14,995,775</b>	<b>13,256,894</b>	<b>15,583,435</b>	<b>13,395,636</b>





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Commodity	<a href="#">Cd</a>	01-01-2006 to 12-31-2006	01-01-2007 to 12-31-2007	01-01-2008 to 12-31-2008	01-01-2009 to 12-31-2009	01-01-2010 to 12-31-2010	5 year Average	01-01-2011 to 12-31-2011
Coal, Lignite, & Coke*	10	3,247,559	3,422,603	3,265,530	2,583,950	2,161,421	2,936,213	1,653,087
Petroleum & Petroleum Products*	20	27,000	49,752	5,000	31,400	4	22,631	6,400
Crude Petroleum	21	7,500	12,000	2,500	0	6,000	5,600	0
Gasoline, Jet Fuel, Kerosene	22	0	12,000	0	0	0	2,400	0
All Fuel Oils; Lubricating Oils & Greases	23	71,400	82,313	49,300	48,200	57,322	61,707	9,400
Pitches, Asphalt, Naphtha, Solvents	24	206,296	344,908	156,476	414,200	361,176	296,611	268,000
Chemicals & Related Products*	30	171,706	149,432	136,708	101,207	35,616	118,934	20,541

<b>All Chemical Fertilizers</b>	31	914,396	1,179,802	1,102,445	956,341	1,367,579	1,104,113	1,671,312
<b>All Other Chemical Related Products</b>	32	142,062	327,664	109,786	90,539	198,471	173,704	147,028
<b>Crude Materials, Inedible, Except Fuels*</b>	40	1,624	0	3,124	23,100	3,244	6,218	1,500
<b>Forest Products, Lumber, Logs, Woodchips</b>	41	9,459	3,248	0	0	0	2,541	3,000
<b>Pulp, Waste Products</b>	42	0	0	1,500	0	3,000	900	4,949
<b>Sand, Gravel, All Stone &amp; Crushed Rock</b>	43	682,988	600,352	585,804	542,825	525,415	587,477	426,329
<b>Iron Ore; Iron Steel Waste &amp; Scrap</b>	44	254,397	255,363	355,860	398,147	438,229	340,399	450,922
<b>Marine Shells, Unmanufactured</b>	45	3,035	1,550	1,500	0	6,100	2,437	1,600
<b>Non-ferrous Metallic Ores, Waste &amp; Scrap</b>	46	42,248	42,324	62,453	47,341	17,260	42,325	35,500
<b>Sulphur, Liquid &amp; Dry; Clay; Salt</b>	47	1,028,802	662,801	997,788	993,362	663,528	869,256	814,737
<b>Slag</b>	48	50,512	86,854	107,502	100,095	91,640	87,321	120,353

<b>Primary Manufactured Goods*</b>	50	0	3,200	12,623	1,500	1,500	3,765	1,300
<b>Paper &amp; Allied Products</b>	51	0	3,000	4,570	0	0	1,514	1,500
<b>Building Cement &amp; Concrete; Lime; Glass</b>	52	828,235	436,447	296,910	390,674	671,849	524,823	918,183
<b>Primary Iron &amp; Steel Products</b>	53	244,889	152,738	120,573	51,197	39,259	121,731	41,217
<b>Primary Non-Ferrous &amp; Fabricated Metal</b>	54	1,500	12,100	4,624	3,200	0	4,285	0
<b>Primary Wood Products; Veneer, Plywood</b>	55	1,600	1,624	0	0	0	645	0
<b>Food &amp; Farm Products*</b>	60	182,100	139,500	99,318	133,800	36,000	118,144	68,892
<b>Fresh Fish &amp; Other Marine Products</b>	61	4,800	0	1,640	9,100	0	3,108	0
<b>Wheat</b>	62	89,760	156,130	118,500	162,366	133,600	132,071	70,700
<b>Corn</b>	63	4,630,073	4,062,496	1,645,940	3,072,502	3,661,464	3,414,495	3,568,708
<b>Rye, Barley, Rice, Sorghum &amp; Oats</b>	64	36,000	78,224	37,936	48,144	63,182	52,697	101,360
<b>Oilseeds-Soybeans,</b>	65	676,203	759,313	878,641	1,451,046	1,027,282	958,497	862,672

<b>Flaxseed &amp; Others</b>								
<b>Vegetable Products</b>	66	4,500	16,700	3,000	13,570	10,600	9,674	1,500
<b>Animal Feed, Grain Mil, Processed Grains</b>	67	296,180	246,287	76,883	261,573	436,600	263,505	226,300
<b>Other Agricultural Products inc food&amp;kin</b>	68	22,800	27,487	15,575	29,072	18,900	22,767	26,250
<b>All Manufactured Equipment &amp; Machinery*</b>	70	10,700	18,404	91,772	31,637	15,600	33,623	8,600
<b>Multi-commodities shipped on Pallets</b>	92	0	0	0	0	0	0	1,600
<b>Commodity is Unknown</b>	99	32,780	7,570	17,041	19,600	55,641	26,526	13,800
<b>Total for all Commodities</b>		<b>13,923,104</b>	<b>13,354,186</b>	<b>10,368,822</b>	<b>12,009,688</b>	<b>12,107,482</b>	<b>12,352,656</b>	<b>11,547,240</b>



US Army Corps  
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## Report 23b - Lock Commodities 6 yrs with 5 yr Average

River: MI Lock Number: 10

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Commodity	<a href="#">Cd</a>	01-01-2000 to 12-31-2000	01-01-2001 to 12-31-2001	01-01-2002 to 12-31-2002	01-01-2003 to 12-31-2003	01-01-2004 to 12-31-2004	5 year Average	01-01-2005 to 12-31-2005
Coal, Lignite, & Coke*	10	2,849,813	2,520,433	2,750,116	2,646,285	2,812,592	2,715,848	3,207,251
Petroleum & Petroleum Products*	20	40,590	45,705	36,500	26,000	22,200	34,199	18,313
Crude Petroleum	21	0	17,900	13,600	0	0	6,300	1,600
Gasoline, Jet Fuel, Kerosene	22	13,500	9,300	39,687	25,702	1,500	17,938	23,503
All Fuel Oils; Lubricating Oils & Greases	23	180,355	42,524	86,242	56,549	96,410	92,416	26,200
Pitches, Asphalt, Naphtha, Solvents	24	384,985	68,644	249,588	275,499	231,618	242,067	383,345
Chemicals & Related Products*	30	161,957	175,209	131,227	120,705	116,275	141,075	128,399



<b>All Chemical Fertilizers</b>	31	1,730,773	1,445,872	1,637,232	1,741,097	1,407,266	1,592,448	1,190,472
<b>All Other Chemical Related Products</b>	32	124,927	106,683	124,552	97,414	145,141	119,743	186,016
<b>Crude Materials, Inedible, Except Fuels*</b>	40	1,600	4,659	9,094	38,380	7,824	12,311	14,172
<b>Forest Products, Lumber, Logs, Woodchips</b>	41	6,224	4,630	6,100	6,264	15,259	7,695	6,111
<b>Pulp, Waste Products</b>	42	1,550	0	3,035	4,552	6,400	3,107	17,600
<b>Sand, Gravel, All Stone &amp; Crushed Rock</b>	43	259,773	404,934	544,384	361,383	635,286	441,152	671,457
<b>Iron Ore; Iron Steel Waste &amp; Scrap</b>	44	198,158	145,417	173,259	169,310	319,884	201,206	216,218
<b>Marine Shells, Unmanufactured</b>	45	0	5,924	4,500	3,124	6,403	3,990	3,000
<b>Non-ferrous Metallic Ores, Waste &amp; Scrap</b>	46	42,974	33,394	24,581	29,559	55,233	37,148	37,206
<b>Sulphur, Liquid &amp; Dry; Clay; Salt</b>	47	612,825	973,717	774,603	771,857	854,950	797,590	1,031,474
<b>Slag</b>	48	90,101	63,173	73,576	107,613	114,074	89,707	131,057

<b>Primary Manufactured Goods*</b>	50	1,552	12,200	3,200	0	3,140	4,018	4,500
<b>Paper &amp; Allied Products</b>	51	1,500	0	0	0	6,000	1,500	0
<b>Building Cement &amp; Concrete; Lime; Glass</b>	52	603,240	431,134	632,905	580,943	974,455	644,535	889,149
<b>Primary Iron &amp; Steel Products</b>	53	246,693	191,529	204,460	158,788	161,792	192,652	172,012
<b>Primary Non-Ferrous &amp; Fabricated Metal</b>	54	4,000	9,000	6,254	9,477	18,035	9,353	3,000
<b>Primary Wood Products; Veneer, Plywood</b>	55	3,100	0	3,000	0	3,000	1,820	0
<b>Food &amp; Farm Products*</b>	60	527,809	631,410	367,576	531,868	263,439	464,420	221,308
<b>Fresh Fish &amp; Other Marine Products</b>	61	1,400	25,500	7,625	1,535	1,600	7,532	7,783
<b>Wheat</b>	62	417,139	326,100	418,889	400,285	250,575	362,598	234,144
<b>Corn</b>	63	8,223,028	6,345,115	8,700,728	7,245,136	5,376,074	7,178,016	5,431,061
<b>Rye, Barley, Rice, Sorghum &amp; Oats</b>	64	153,148	54,380	103,769	71,019	84,264	93,316	82,800
<b>Oilseeds-Soybeans,</b>	65	2,084,173	1,587,119	2,772,185	1,559,136	576,027	1,715,728	1,016,534

<b>Flaxseed &amp; Others</b>								
<b>Vegetable Products</b>	66	27,100	12,000	21,561	10,513	6,059	15,447	12,000
<b>Animal Feed, Grain Mil, Processed Grains</b>	67	601,215	563,682	239,073	455,917	475,127	467,003	331,533
<b>Other Agricultural Products inc food&amp;kin</b>	68	60,001	33,318	58,608	68,085	106,676	65,338	42,859
<b>All Manufactured Equipment &amp; Machinery*</b>	70	3,200	6,228	14,195	6,311	7,169	7,421	34,700
<b>Waste Matl, Garbage, Landfill, Sewage..</b>	80	0	0	0	1,500	0	300	0
<b>Commodity is Unknown</b>	99	297,811	232,581	292,988	42,925	23,875	178,036	43,361
<b>Total for all Commodities</b>		<b>19,956,214</b>	<b>16,529,414</b>	<b>20,528,892</b>	<b>17,624,731</b>	<b>15,185,622</b>	<b>17,964,975</b>	<b>15,820,138</b>



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## Report 23b - Lock Commodities 6 yrs with 5 yr Average

River: MI Lock Number: 10

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Commodity	<a href="#">Cd</a>	01-01-2006 to 12-31-2006	01-01-2007 to 12-31-2007	01-01-2008 to 12-31-2008	01-01-2009 to 12-31-2009	01-01-2010 to 12-31-2010	5 year Average	01-01-2011 to 12-31-2011
Coal, Lignite, & Coke*	10	3,293,989	3,459,750	3,239,342	2,577,275	2,146,281	2,943,327	1,682,827
Petroleum & Petroleum Products*	20	27,000	51,252	5,000	31,400	0	22,930	6,400
Crude Petroleum	21	7,500	12,000	2,500	0	6,000	5,600	0
Gasoline, Jet Fuel, Kerosene	22	0	12,000	0	0	0	2,400	0
All Fuel Oils; Lubricating Oils & Greases	23	71,400	82,313	49,300	48,200	57,322	61,707	9,400
Pitches, Asphalt, Naphtha, Solvents	24	210,796	346,656	150,476	414,800	359,676	296,481	268,000
Chemicals & Related Products*	30	174,741	160,420	136,708	105,707	40,316	123,578	25,448

<b>All Chemical Fertilizers</b>	31	976,408	1,231,898	1,150,776	1,033,535	1,521,261	1,182,776	1,817,416
<b>All Other Chemical Related Products</b>	32	157,662	343,883	111,658	90,539	208,071	182,363	147,128
<b>Crude Materials, Inedible, Except Fuels*</b>	40	1,624	0	4,624	23,100	3,244	6,518	3,100
<b>Forest Products, Lumber, Logs, Woodchips</b>	41	7,959	3,248	0	0	0	2,241	3,000
<b>Pulp, Waste Products</b>	42	0	3,235	1,500	0	3,000	1,547	4,949
<b>Sand, Gravel, All Stone &amp; Crushed Rock</b>	43	669,364	608,331	607,204	546,447	547,165	595,702	431,579
<b>Iron Ore; Iron Steel Waste &amp; Scrap</b>	44	250,056	258,614	359,594	413,388	440,029	344,336	457,477
<b>Marine Shells, Unmanufactured</b>	45	3,035	1,550	1,500	0	6,100	2,437	1,600
<b>Non-ferrous Metallic Ores, Waste &amp; Scrap</b>	46	43,996	42,324	62,453	47,441	18,860	43,015	37,100
<b>Sulphur, Liquid &amp; Dry; Clay; Salt</b>	47	1,138,716	757,707	1,077,460	1,080,107	756,923	962,183	934,871
<b>Slag</b>	48	59,811	86,994	109,002	106,395	96,440	91,728	119,253



<b>Primary Manufactured Goods*</b>	50	0	3,200	12,623	1,500	1,500	3,765	1,300
<b>Paper &amp; Allied Products</b>	51	0	3,000	4,570	0	0	1,514	1,500
<b>Building Cement &amp; Concrete; Lime; Glass</b>	52	819,366	438,582	294,010	392,174	661,709	521,168	921,283
<b>Primary Iron &amp; Steel Products</b>	53	257,943	156,121	120,684	51,197	40,959	125,381	45,208
<b>Primary Non-Ferrous &amp; Fabricated Metal</b>	54	1,500	13,600	4,624	3,200	0	4,585	0
<b>Primary Wood Products; Veneer, Plywood</b>	55	1,600	1,624	0	0	0	645	0
<b>Food &amp; Farm Products*</b>	60	200,100	180,000	136,818	196,800	37,500	150,244	76,392
<b>Fresh Fish &amp; Other Marine Products</b>	61	4,800	0	1,640	9,100	0	3,108	0
<b>Wheat</b>	62	89,760	154,630	121,500	163,966	139,600	133,891	73,700
<b>Corn</b>	63	6,536,983	5,612,996	2,519,740	3,891,502	4,521,962	4,616,637	4,449,408
<b>Rye, Barley, Rice, Sorghum &amp; Oats</b>	64	36,000	81,224	40,936	49,644	63,182	54,197	111,860
<b>Oilseeds-Soybeans,</b>	65	970,189	1,092,574	1,255,141	2,066,046	1,465,618	1,369,914	1,194,372

<b>Flaxseed &amp; Others</b>								
<b>Vegetable Products</b>	66	7,535	16,700	3,000	10,700	10,600	9,707	1,500
<b>Animal Feed, Grain Mil, Processed Grains</b>	67	333,680	364,787	129,544	356,273	666,200	370,097	286,600
<b>Other Agricultural Products inc food&amp;kin</b>	68	27,552	27,487	15,575	30,572	21,900	24,617	26,250
<b>All Manufactured Equipment &amp; Machinery*</b>	70	10,962	25,904	94,282	38,393	19,325	37,773	3,760
<b>Waste Matl, Garbage, Landfill, Sewage..</b>	80	3,000	0	0	1,500	0	900	0
<b>Multi-commodities shipped on Pallets</b>	92	0	0	0	0	0	0	1,600
<b>Commodity is Unknown</b>	99	34,310	7,570	27,785	19,600	53,689	28,591	13,800
<b>Total for all Commodities</b>		<b>16,429,337</b>	<b>15,642,174</b>	<b>11,851,569</b>	<b>13,800,501</b>	<b>13,914,432</b>	<b>14,327,603</b>	<b>13,158,081</b>

## SECTION 5: RAILROADS

### Discussion

**BNSF** (Burlington Northern Santa Fe) & **WSOR** (Wisconsin & Southern Railroad) are the only two railroads present in the four counties studied. The network route maps are below. WSOR from Middleton all the way out to Prairie du Chien operates a Class II railroad, which is somewhat lighter, less traveled and less likely to transport any significant amounts of hazardous materials. [Their business plan is at: [http://www.wsorrailroad.com/infrastructure/3\\_5\\_7\\_Year\\_Plan.pdf](http://www.wsorrailroad.com/infrastructure/3_5_7_Year_Plan.pdf) which is also included as a PDF on the DVD ROM]

Detailed in this section are all the data that could be obtained within reason of the extensive effort that is required to get rail companies to release any data at all – and that includes to personnel with a legitimate “need to know” as well as those with typical emergency management security clearances.

For this reason, the actual field data gathered below combined with both the data from the highway observations and the data from the Tier II facilities really are necessary to get a reasonably accurate and useful representation of what might be traveling the lines at any given time.

There was NO rail traffic at all observed on WSOR rail lines during the course of this study. Data from similar railroad operations were presented to representatives from Wisconsin & Southern and while they declined to give specifics, they did say that the “Central Wisconsin Rail 2011 HazMat Commodity Table” shown below represented an overly conservative picture of their operations. An additional section covering “The Andersons” terminal was added to ensure inclusivity. Similarly, the Spring Green siding in Sauk County, and the Boscobel siding in Grant County were taken into consideration as these cars would travel through Iowa and Richland Counties as well. Photographs and maps of these and other areas are included on the DVD ROM for detailed study.

BNSF also declined to give details of their rail shipments. The data acquired from both the Prairie du Chien and Genoa observations did characterize the rail traffic somewhat. Additionally, Canadian Pacific Rail operates on the west side of the Mississippi River and has similar service patterns to BNSF. They did respond to the request for commodity flow data and it is included at the end of this section.

Rail service is evolving and changing with the changing climate of manufacturing in the United States. Therefore, and for the aforementioned reasons, to convert the data in this study to usable Emergency Response Plans, WSOR and BNSF will have to be consulted directly for meetings specifically designed to prepare local First Responders for the first 2 to 3 hours of a derailment incident.

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Of note in recent efforts to improve railway safety is the Rail Safety Improvement Act of 2008. The article from September 24<sup>th</sup>, 2012 “Chemical & Engineering News” is excerpted below for reference:

**CHEMICAL & ENGINEERING NEWS**

1155—16th St., N.W., Washington, DC 20036  
(202) 872-4600 or (800) 227-5558

**EDITOR-IN-CHIEF:** A. Maureen Rouhi

**MANAGING EDITOR:** Robin M. Giroux

[WWW.CEN-ONLINE.ORG](http://WWW.CEN-ONLINE.ORG)

Excerpt from "RAIL SAFETY UPGRADE RAISES RATE CONCERNS":  
SEPTEMBER 24, 2012

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The integrated technologies are designed to override human error and automatically control train movements to prevent head-on collisions or derailments that can result from excessive speeds. PTC can also protect maintenance workers along tracks by slowing or stopping trains entering work zones.

Conventional safety systems use trackside equipment to determine train location within a block of track and a colored-light notification system for engineers. PTC combines digital communication systems, Global Positioning System technology, and onboard computers with track databases to continually monitor train location and speed. PTC is integrated with railroad dispatching systems to manage train traffic.

The Rail Safety Improvement Act, which President George W. Bush signed into law in October 2008, mandates that railroads install PTC systems nationwide by the end of 2015 on lines used to transport passengers or “toxic by inhalation” materials—gases or liquids that are especially hazardous if released into the atmosphere.

Congress passed the legislation shortly after a deadly train wreck in Chatsworth, Calif. On Sept. 12, 2008, a Metrolink commuter train collided with a Union Pacific locomotive, killing 25 people and injuring 135 others. The crash was the worst U.S. train accident in 15 years. Federal investigators found that the Metrolink driver was sending and receiving text messages just before his commuter train skipped a red light and slammed into the locomotive.

The National Transportation Safety Board has said that PTC would have prevented the train collision in Chatsworth, as well as a January 2005 rail crash in Graniteville, S.C., that killed nine people and injured at least 250. That crash punctured a chlorine tank car, releasing a toxic cloud that led to the evacuation of about 5,400 residents.

Although it’s somewhat uncertain as of now what impact this will have on future operations of rail transportation, to the extent that it is an economical proposition in the long run, it will provide a good measure of hazardous materials release protection to the general public.

# Rail Equipment Descriptions

The following car descriptions include each car's general usage, the main types of commodities shipped in each style of car and some of the special features which distinguish the various styles.

See [Damage Prevention](#) information for the steps we take to protect your shipments.

## Automotive Racks

Designed to ship domestic and imported automobiles, trucks, SUVs and mini-vans.



## Boxcars

Designed to transport crated or palletized freight of all kinds. Boxcars are the most common type of rail cars with a variety of sizes and features.





### Centerbeams

Designed to transport bundled building supplies, a center partition secures the product in place.



### Covered Hoppers

Designed to handle shipments of free flowing dry bulk commodities. Cars are loaded from the top and product is discharged from the bottom.



### Coil Cars

Designed for products such as coiled steel, steel plate or high grade ores.



### Flatcars

Designs come in a variety of lengths, tonnage and capacities for specialized commodities that are not subject to damage from the elements.



### Gondolas

Designed to ship heavy bulk commodities that includes scrap metal, aggregates, logs, lumber, etc.



### Intermodal Equipment

Containers and trailers that transport freight of all kinds.



**Refrigerated Boxcar** Designed to control the temperature of perishable freight such as fresh fruits, vegetables, frozen food and more.



### Open Top Hoppers

Designed to handle heavy dry bulk commodities that are not affected by weather conditions and will flow or discharge through the bottom gates into storage pits.



### Tank Cars

Used to ship compressed or liquid commodities, the majority of tank cars are owned by non-railroad companies.

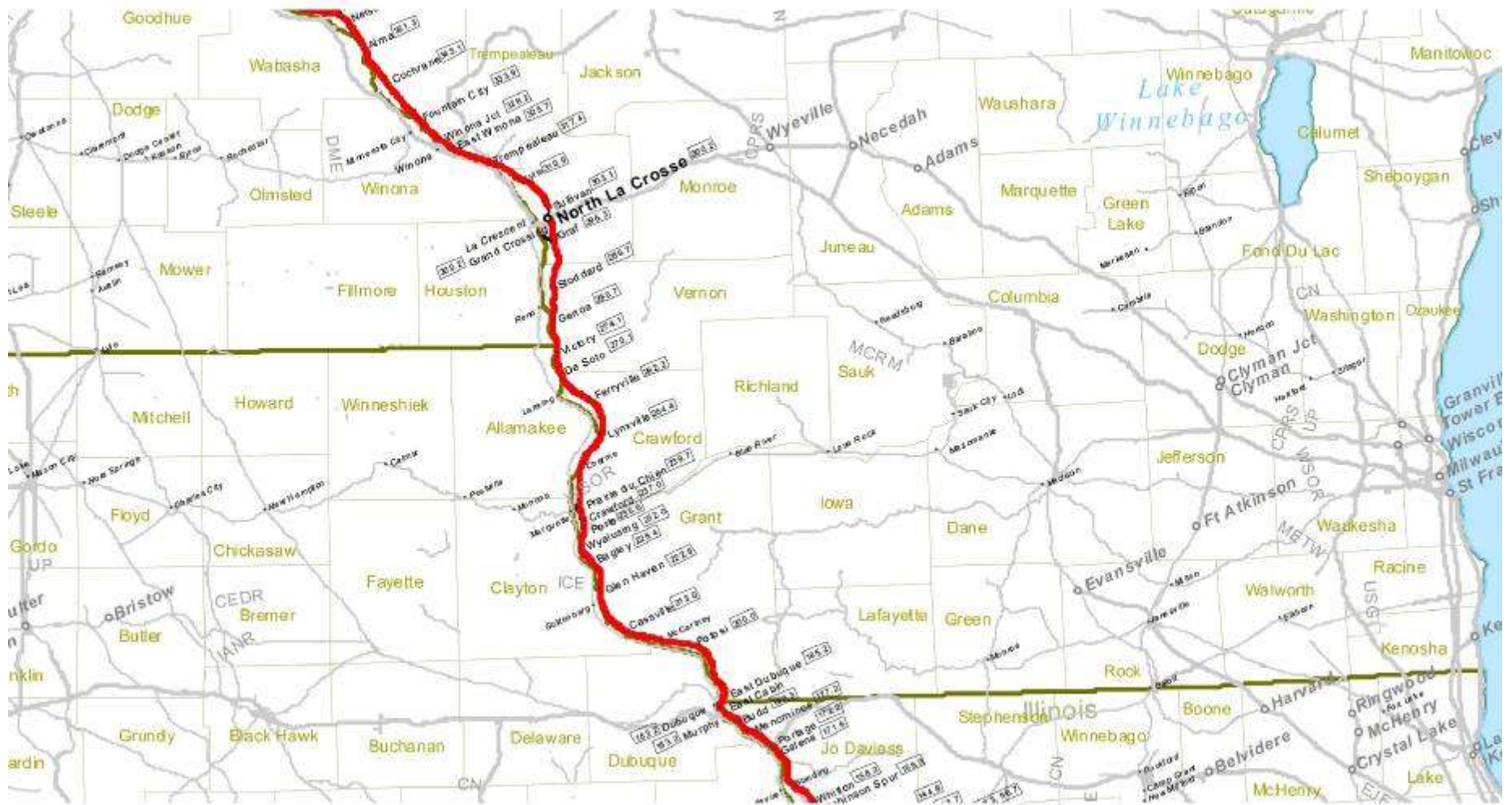


## Union Pacific Corporation

Union Pacific Corporation (NYSE:UNP) is one of America's leading transportation companies. Its principal operating company, Union Pacific Railroad, is North America's premier railroad franchise, covering 23 states across the western two-thirds of the United States.

<https://www.uprr.com/customers/equip-resources/cartypes/index.shtml>

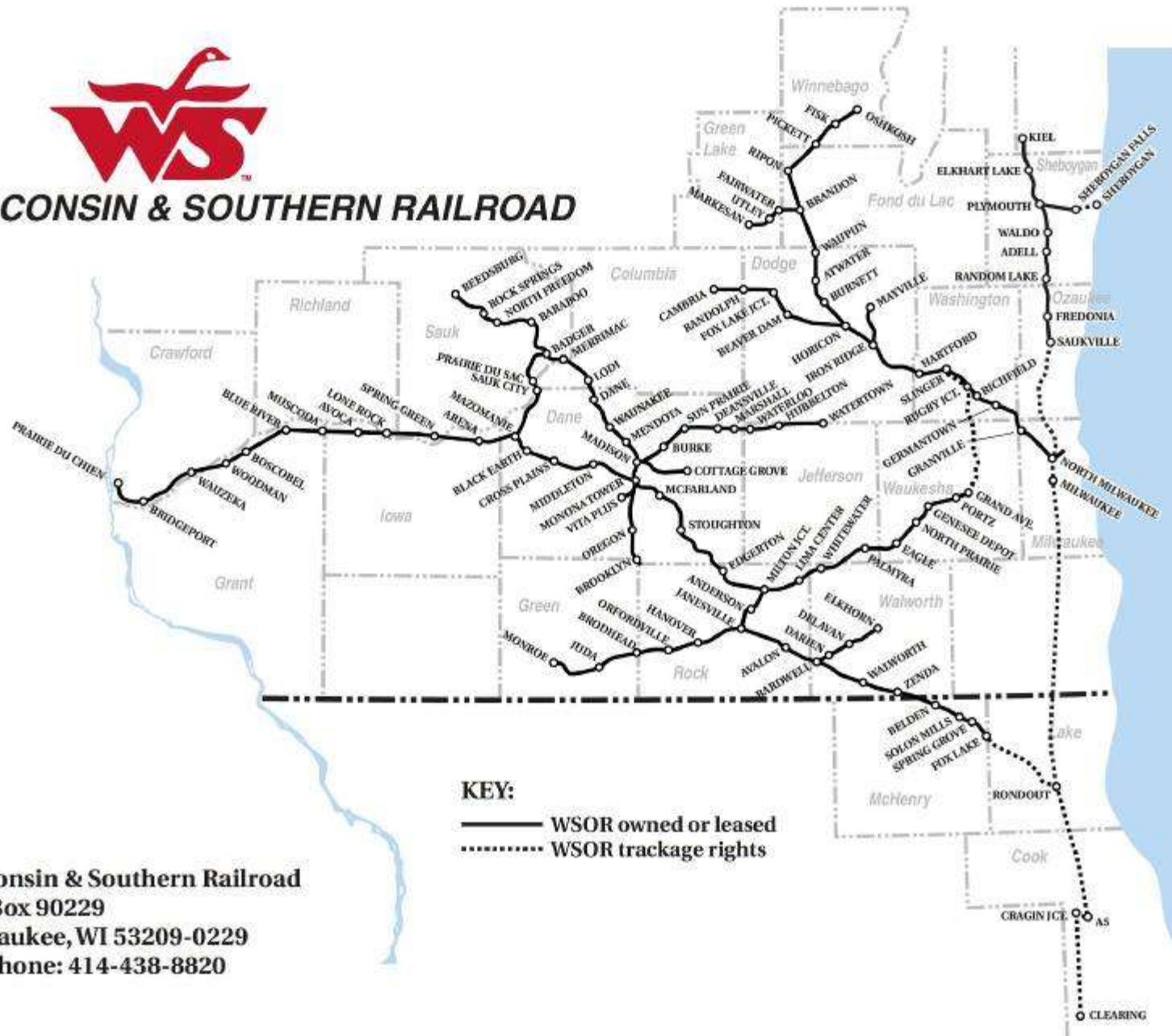




## Burlington Northern Santa Fe Railway Map



## WISCONSIN & SOUTHERN RAILROAD



Wisconsin & Southern Railroad  
 P.O. Box 90229  
 Milwaukee, WI 53209-0229  
 telephone: 414-438-8820



Crawford County  
Observation Data  
Burlington Northern Santa Fe Railway

## DOT RAILROAD DATA COLLECTION FORM

CITY: PRAIRIE DU CHIEN

Non-Haz	Placard #	Class	Material or Category	Rail Car Type	Est. # of Cars	Point Location	Direction of Travel	Date	Time
X	--	--	General	Flat Car Intermodal	300	Blackhawk Crossing	N	07/31/2012	05:30
	1267	3	Flammable Liquid	Tanker	250	Blackhawk Crossing	S	07/31/2012	05:34
X	--	--	General	Flat Car Intermodal	200	Blackhawk Crossing	N	07/31/2012	05:40
X	--	--	General	Flat Car Intermodal	100	Blackhawk Crossing	S	07/31/2012	06:38
X	--	--	General	Flat Car Intermodal	100	Blackhawk Crossing	N	07/31/2012	06:56
	Mixed	3, 8	Flammable Liquid, Bulk Mixed	Tanker, Hopper, Box	75	Blackhawk Crossing	N	07/31/2012	07:03
	1267	3	Flammable Liquid	Tanker	200	Blackhawk Crossing	N	07/31/2012	07:15
X	--	--	General	Flat Car Intermodal	150	Blackhawk Crossing	S	07/31/2012	07:32
X	--	--	General	Flat Car Intermodal	100	Blackhawk Crossing	S	07/31/2012	09:30
X	--	--	Bulk	3 Cell Hopper	125	Blackhawk Crossing	N	07/31/2012	09:45
	1267	3	Flammable Liquid	Tanker	200	Blackhawk Crossing	N	07/31/2012	10:51
	1267	3	Flammable Liquid	Tanker	200	Blackhawk Crossing	N	07/31/2012	13:58
	1267, 1805, 1993	3, 8	Flammable Liquid, Bulk & Mixed	Gondola, Box, Tank, 2 Cell Hopper	150	Blackhawk Crossing	S	07/31/2012	13:59
X	--	--	Bulk	Coal Hopper	200	Blackhawk Crossing	N	07/31/2012	14:19
X	--	--	Grain	Mixed, 3 Cell Hopper	250	Blackhawk Crossing	S	07/31/2012	14:31
	1267, 1805	3, 8	Flammable Liquid Mixed	Mixed	200	Blackhawk Crossing	S	07/31/2012	14:48
	1993, 1987, 1267	3, 3, 3	Flammable Liquid Mixed	Mixed	150	Blackhawk Crossing	N	07/31/2012	15:16
X	--	--	General Mixed	Mixed	30	Blackhawk Crossing	N	07/31/2012	16:07
X	--	--	General	Flat Car Intermodal	300	Blackhawk Crossing	S	07/31/2012	16:20
X	--	--	Grain	Hopper	200	Blackhawk Crossing	N	07/31/2012	16:22

## DOT RAILROAD DATA COLLECTION FORM

CITY: PRAIRIE DU CHIEN

Non-Haz	Placard #	Class	Material or Category	Rail Car Type	Est. # of Cars	Point Location	Direction of Travel	Date	Time
	1760, 1993, 3266	8, 3	General	Box, Lumber, Hopper, Tanker, Mixed	125	Blackhawk Crossing	S	07/31/2012	16:41
X	--	--	General	Flat Car Intermodal	100	Blackhawk Crossing	N	07/31/2012	16:58
X	--	--	Coal	Bottom Hopper, Gondola	250	Blackhawk Crossing	S	07/31/2012	17:10
X	--	--	General	Flat Car Intermodal	100	Blackhawk Crossing	S	07/31/2012	17:25
X	--	--	Grain	4 Cell Hopper	250	Blackhawk Crossing	S	07/31/2012	17:40
X	--	--	General, Bulk, Mixed	Tanker, Hopper, Box	125	Blackhawk Crossing	S	07/31/2012	18:07
	1267, 2312	3, 6	Flammable Liquids, Poison, Car Carrier, Pipe	Tanker, Hopper, Box	150	Blackhawk Crossing	N	07/31/2012	18:55
X	--	--	General	Flat Car Intermodal	250	Blackhawk Crossing	N	07/31/2012	19:12
	1818	6	Silicon Tetrachloride, General	Tanker, Hopper, Mixed	100	Blackhawk Crossing	S	07/31/2012	20:25

CITY: PRAIRIE DU CHIEN

Non-Haz	Placard #	Class	Material or Category	Rail Car Type	Est. # of Cars	Point Location	Direction of Travel	Date	Time
X	--	--	General	Flat Car Intermodal	150	Blackhawk Crossing	N	08/01/2012	08:37
X	--	--	General Bulk	Hopper	200	Blackhawk Crossing	S	08/01/2012	09:33
	3257, 1267, 1075, 1987, 1203, 1824	9, 3, 2, 3, 3, 8	Hot Liquids, Flammable Liquids/Gases, Corrosives	Tanker, Hopper, Box, Mix	130	Blackhawk Crossing	S	08/01/2012	10:08
X	--	--	General	Flat Car Intermodal	150	Blackhawk Crossing	S	08/01/2012	10:20
X	--	--	General Bulk	Hopper	225	Blackhawk Crossing	N	08/01/2012	10:25
X	--	--	General Bulk	Hopper	200	Blackhawk Crossing		08/01/2012	13:32
X	--	--	Coal	Coal Hopper	225	Blackhawk Crossing		08/01/2012	13:48
X	--	--	Cars	Car Carrier	120	Blackhawk Crossing		08/01/2012	14:04
X	--	--	People	Passenger	5	Blackhawk Crossing		08/01/2012	14:05
	1267	3	Flammable Liquid	Tanker	300	Blackhawk Crossing		08/01/2012	15:09

Vernon County  
Observation Data  
Burlington Northern Santa Fe Railway

# DOT RAILROAD DATA COLLECTION FORM

CITY: GENOA

Non-Haz	Placard #	Class	Material or Category	Rail Car Type	Est. # of Cars	Point Location	Direction of Travel	Date	Time
	1075, 1203, 1267	2, 3, 3	Flammable Liquids/Gases	Tanker, Box, Hopper, Mixed	75	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	08:20
X	--	--	General	Flat Car Intermodal	90	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	09:26
	1267	3	Flammable Liquid	Tanker	200	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	09:49
X	--	--	Grain	3 Cell Hopper	200	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	10:46
	1075, 1987	2, 3	Flammable Liquids/Gases, Bulk, Lumber, General	Tanker, Box, Rack, Hopper, Mixed	80	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	10:59
X	--	--	General	Flat Car Intermodal	125	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	11:13
X	--	--	General	Flat Car Intermodal	75	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	11:51
X	--	--	General	Flat Car Intermodal	200	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	13:02
X	--	--	Grain	3 Cell Hopper	200	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	13:43
X	--	--	[Empty]	Flat Car	175	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	14:10
X	--	--	General	Flat Car Intermodal	100	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	14:49
X	--	--	General	Flat Car Intermodal	125	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	15:11
	1075, 1267	2, 3	Flammable Liquids/Gases, Bulk	Tanker, Box, Hopper, Mixed	75	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	15:28
	2187, 1987, 1267	2, 3, 3	Flammable Liquids/Gases, Bulk	Tanker, Box, Hopper, Mixed	80	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	15:31
X	--	--	Coal	Coal Hopper	300	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	15:37
	1267, 1136, 1805, 2215	3, 8	Flammable Liquids, Bulk, Lumber, General, Mixed	Tanker, Box, Hopper, Mixed	100	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	16:32
X	--	--	General	Flat Car Intermodal	150	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	17:13
	1160, 1170, 1061, 3295		Flammable Liquids/Gases, Mixed	Tanker, Box, Hopper, Mixed	80	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	17:48
X	--	--	General	Flat Car Intermodal	175	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	17:58
	1993, 1075, 1267	3, 2, 3	Flammable Liquids/Gases, Bulk, Lumber, General	Mixed	100	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	18:32

CITY: GENOA

Non-Haz	Placard #	Class	Material or Category	Rail Car Type	Est. # of Cars	Point Location	Direction of Travel	Date	Time
X	--	--	Car Carriers, General	Flat Car Intermodal	175	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	19:22
X	--	--	General Bulk	Hopper	200	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	20:24
	3257	9	Hot Liquids, Bulk, Lumber, General, Mixed	Mixed	175	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	20:25
	Flammable	3	Flammable Liquids/Gases, Bulk, Lumber, General	Tanker, Box, Rack, Hopper, Mixed	80	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	S	08/02/2012	21:01
	Flammable	2, 3	Flammable Liquids/Gases, Bulk, Carbon Dioxide	Tanker, Box, Rack, Hopper, Mixed	100	Hwy 35, Genoa Boat Landing, Tobacco Warehouse	N	08/02/2012	21:04



Central Wisconsin  
General Railway  
HazMat Data

## Central Wisconsin Rail 2011 HazMat Commodity Table

UN / NA #	HazMat Class #	Proper Shipping Name
-99-	MIX	FAK-HAZARDOUS MATERIALS
NA1760	8	FERROUS CHLORIDE, SOLUTION
NA1993	3	FUEL OIL
NA2448	9	SULFUR, MOLTEN
UN1005	2.2	AMMONIA, ANHYDROUS
UN1010	2.1	BUTADIENES, STABILIZED
UN1017	2.3	CHLORINE
UN1075	2.1	BUTANE
UN1075	2.1	PETROLEUM GASES, LIQUEFIED
UN1075	2.1	PROPANE
UN1077	2.1	PROPYLENE
UN1202	3	DIESEL FUEL
UN1203	3	GASOLINE
UN1208	3	HEXANES
UN1219	3	ISOPROPANOL
UN1230	3	METHANOL
UN1267	3	PETROLEUM CRUDE OIL
UN1268	3	PETROLEUM DISTILLATES, N.O.S.
UN1274	3	N-PROPANOL
UN1276	3	N-PROPYL ACETATE
UN1294	3	TOLUENE
UN1301	3	VINYL ACETATE, STABILIZED
UN1307	3	XYLENES
UN1778	8	FLUOROSILICIC ACID
UN1789	8	HYDROCHLORIC ACID
UN1805	8	PHOSPHORIC ACID SOLUTION
UN1814	8	POTASSIUM HYDROXIDE, SOLUTION
UN1824	8	SODIUM HYDROXIDE SOLUTION
UN1830	8	SULFURIC ACID

UN / NA #	HazMat Class #	Proper Shipping Name
UN1832	8	SULFURIC ACID, SPENT
UN1866	3	RESIN SOLUTION
UN1987	3	ALCOHOLS, N.O.S.
UN1993	3	FLAMMABLE LIQUIDS, N.O.S.
UN1993	3	WASTE FLAMMABLE LIQUIDS, N.O.S.
UN2348	3	BUTYL ACRYLATES, STABILIZED
UN2370	3	1-HEXENE
UN2426	5.1	AMMONIUM NITRATE, LIQUID
UN2448	4.1	SULFUR, MOLTEN
UN2582	8	FERRIC CHLORIDE, SOLUTION
UN2672	8	AMMONIA SOLUTIONS
UN3077	9	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
UN3077	9	WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN3082	9	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.
UN3082	9	WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN3257	9	ELEVATED TEMPERATURE LIQUID, N.O.S.
UN3266	8	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
UN3287	6.1	TOXIC LIQUID, INORGANIC, N.O.S.
UN3295	3	HYDROCARBONS, LIQUID, N.O.S.
UN3463	8	PROPIONIC ACID

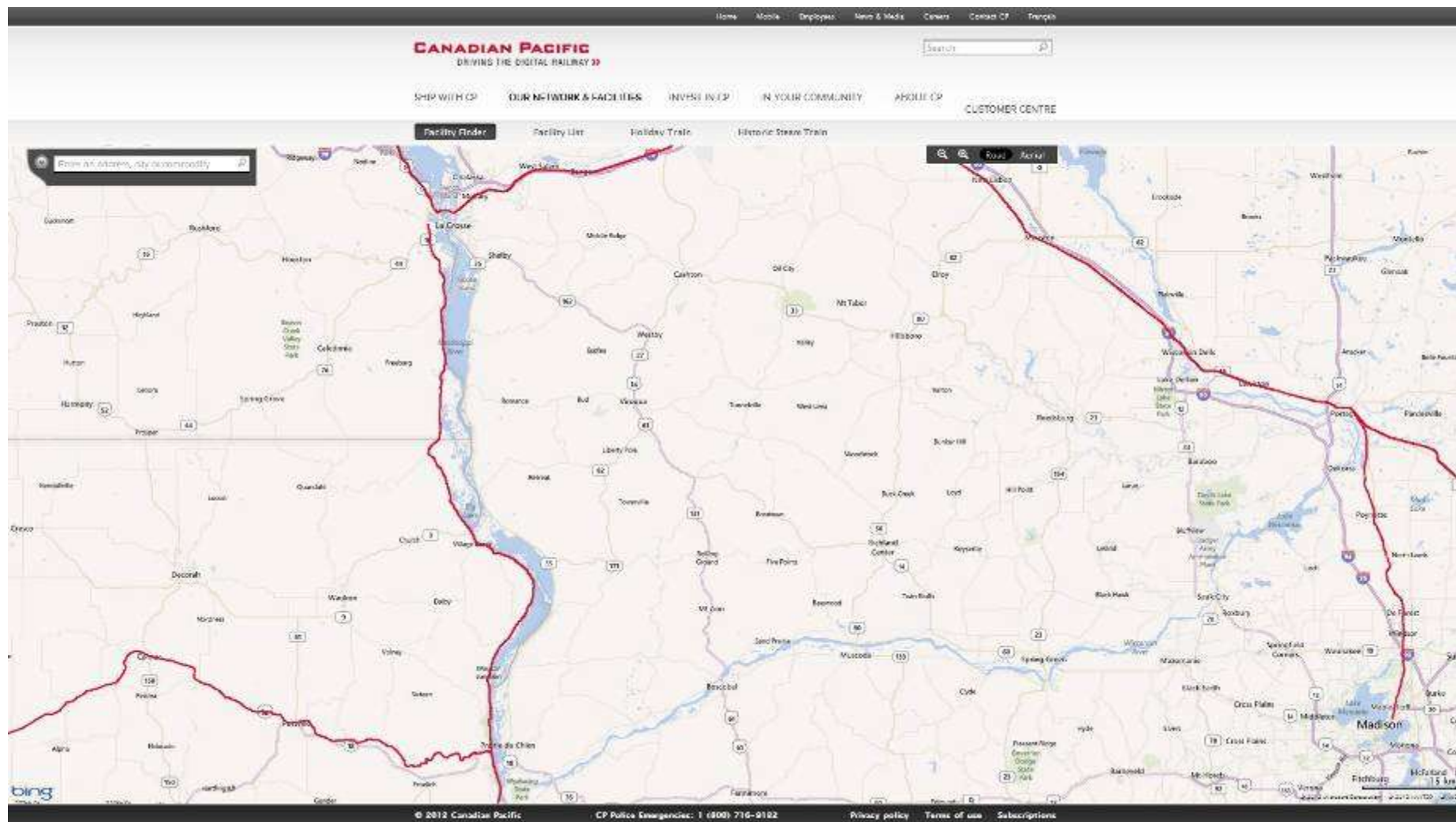
Potential additional Tier II Chemicals that could arrive by rail at *The Andersons* between Arena and Spring Green:

UN / NA #	HazMat Class #	Reported Chemical
Not Regulated		AMMONIUM POLYPHOSPHATE
N/R		AMMONIUM THIOSULFATE
UN1005	2.2	ANHYDROUS AMMONIA
N/R		BORON 10% SOLUTION
UN1454	5.1	CALCIUM NITRATE (AKA CN-9)
N/R		MAGNESIUM CHLORIDE
UN1805	8	PHOSPHORIC ACID
N/R		POTASSIUM CHLORIDE (AKA POTASH)
N/R		POTASSIUM THIOSULFATE (AKA KTS)
UN1075 / 1978	2.1	PROPANE
N/R		UREA (AKA 46-0-0)
N/R		UREA AMMONIUM NITRATE SOLUTIONS (AKA 28% OR 32% UAN)
UN3266	8	ZINC 15% SOLUTION

The 5 (five) Wisconsin & Southern Railroad Spur/Sidings on the line that are significant to this study are: The Andersons in Arena; Riverdale Ag in Muscoda; Businesses in Boscobel; Feed mill in Wauzeka; and, Grain elevator in Prairie du Chien.

## Canadian Pacific HazMat Data





# Traffic Density Study - CPR 2011

## Top 25 Hazardous Materials

Rank	Proper Shipping Name	UN #	Percent of Total
1	Mixed Shipments Containing - HAZARDOUS MATERIALS	N/A	22%
2	AMMONIA, ANHYDROUS	UN1005	19%
3	SULFUR, MOLTEN	UN2448	13%
4	PROPANE	UN1075	10%
5	ELEVATED TEMPERATURE LIQUID, N.O.S.	UN3257	5%
6	FUEL, AVIATION, TURBINE ENGINE	UN1863	4%
7	SULFURIC ACID	UN1830	3%
8	LIQUEFIED PETROLEUM GAS	UN1075	3%
9	BUTANE	UN1075	3%
10	HYDROCARBONS, LIQUID, N.O.S.	UN3295	2%
11	AMINES, LIQUID, CORROSIVE, N.O.S.	UN2735	2%
12	SODIUM CHLORATE	UN1495	2%
13	DIESEL FUEL	UN1202	2%
14	SODIUM HYDROXIDE SOLUTION	UN1824	2%
15	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	UN3077	1%
16	FIREWORKS	UN0336	1%
17	POLYMERIC BEADS, EXPANDABLE	UN2211	1%
18	BATTERIES, WET, FILLED WITH ACID	UN2794	1%
19	HYDROCHLORIC ACID	UN1789	1%
20	TRICHLOROISOCYANURIC ACID, DRY	UN2468	1%
21	MAGNESIUM	UN1869	1%
22	FLAMMABLE LIQUIDS, N.O.S.	UN1993	1%
23	ALCOHOLS, N.O.S.	UN1987	1%
24	PICOLINES	UN2313	1%
25	PHOSPHORIC ACID SOLUTION	UN1805	1%

## Canadian Pacific Railway Company

**Rail Corridor Geographical Description:** Dubuque, IA to La Crescent, MN

## SECTION 6: HIGHWAYS

### Discussion

This section of the study produced not only the largest data stream, but it also referenced the widest collection of associated facts and details, much of it related to the generators and end-users of hazardous and non-hazardous commodities alike. It was early on in the initial phases of the overall Commodity Flow Study design that the determination was made to include All Commodity Flow to better and more accurately characterize material transport dynamics. National Highway Traffic statistics fairly clearly show that the bulk of accident situation factors likely to cause or be involved in hazardous materials releases are those in which small vans, trucks and utility vehicle play a role. There are numerous categorical examples of this that can be illustrated with the over 2,000 photographs that were taken in the course of this study. Using the Richland Center segment of the data collection effort, consider the following:



In all cases, the vehicles are UNPLACARDED. In all cases, significant hazards could be present. In all cases, these kinds of vehicles are involved in the overwhelming majority of crashes. In the placarding information below, adapted, per se, from 49 CFR 172, it can be quickly determined that 1,000 lbs. or less of either a single hazmat or several combined can be on board any truck on the road and not be marked. Furthermore, several semi-trailers involved in a crash could all have near a half a ton of hazmats each, OR, a small quantity of a strongly incompatible set of hazmats could be brought together at an accident scene with exceptionally dangerous consequences. Bulk NON-hazmats introduced to this situation can very adversely impact the outcome as well, depending on reactivity and fuel value. Even-though such a scene is unlikely to be the doomsday scenario one might imagine, it is nevertheless quite a bit more hazardous than the lack of placards would lead one to expect.



More often, placarding such as this elicits the kind of vigilance that, in reality, should be present at every scene:



Those who are familiar with the flammability of ethanol will appreciate that even an innocuous seeming vehicle such as this:



can present a very unanticipated secondary hazard.

A few additional thumbnails are included in **Appendix C**. All the rest can be found at full resolution on the DVD ROM that accompanies this report. They are worth surveying if only to inspire some pre-preparatory “What-If?” thinking in case you ever come upon a scene where peripheral elements can suddenly become the central focus.

In considering all the data that follow, the reader needs to be aware that many of these observations were collected in a small urban setting. It became clear fairly early in the first data set that, yes indeed, there is a “circulation” effect of single vehicles crossing a given point X times every hour or so. In subsequent collection runs, this “circulation” was filtered out as accurately and cleanly as possible, with the following caveat: When you and/or your planning team are deliberating vehicle travel and presence in high-population-density urban or semi-urban areas, factor in the equivalent of a “probability cloud” of various types of delivery vans and service vehicles carrying quantities of unplacarded, but significant,

hazardous materials. Simply consider them to be ever-present somewhere in your planning circumference. You might not know *where* there are, but you can count on them being there somewhere.

The following 4 pages are provided for general background information. There are numerous sources of information to describe and categorize all manner of trucks, vans, tractor-trailers and specialty vehicles. While including them here is beyond the scope of this study, it is recommended that the reader be familiar the many different styles of tanker and van trailers.

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## Semi Tractor-Trailer Configurations

Different types of semi-trailers are designed to haul different cargoes. Common widths are 8 feet (2.44 m), and 2.6 metres (8 ft 6.4 in).

### **Box**

The most common type of trailer. Also called a van trailer.

Standard lengths in North America are 28 ft 0 in (8.53 m), 32 ft 0 in (9.75 m), 34 ft 0 in (10.36 m), 36 ft 0 in (10.97 m), 40 ft 0 in (12.19 m), 45 ft 0 in (13.72 m), 48 ft 0 in (14.63 m) and 53 ft 0 in (16.15 m).

### **Bus**

A bus bodied trailer hitched to a tractor unit to form a trailer bus, a simple alternative to building a rigid bus.

### **Car-carrying trailer**

Carries multiple cars; usually new cars from the manufacturer. In the U.S., car carriers often carry used vehicles as well.

### **Curtain sider**

A curtain sider is similar to a box trailer except that the sides are movable curtains made of reinforced fabric coated with a waterproof coating. The purpose of a curtain sider is to allow the security and weather resistance of a box trailer with the ease of loading of a flatbed.

### **Drop-deck trailer**

A drop-deck trailer is a trailer on which the floor drops down a level once clear of the tractor unit; the most common types of drop-deck trailer are flatbeds and curtain siders.

### **Double decker**

Double deckers or deckers are trailers with either a fixed, hinged or moveable second floor to enable them to carry more palletised goods. In general a double decker can carry 40 pallets, as opposed to 26 for a standard trailer. Double deck trailers are generally a stepped box or curtain siders, with box trailers having either a fixed or movable (floating) deck, and curtain sides having either a fixed or hinged second deck; this hinged second deck generally swings into a position down the length of the trailer, and can be divided into 2 or 3 sections to allow greater load flexibility.

## Dry Bulk

Resembles a big tanker, but is used for sugar, flour, and other dry powder materials.

## Flatbed

Consists of just a load floor and removable side rails and a bulkhead in front to protect the tractor in the event of a load shift. Can haul almost anything that can be stacked on and strapped down.

## Live bottom

Has a conveyor belt on the bottom of the trailer tub that pushes the material out of the back of the trailer. The tub does not have to be raised to deposit the materials.

## Lowboy

Type of flatbed in which the load floor is as close to the ground as possible. Most commonly used to haul heavy equipment, cranes, bulldozers, etc.

## Reefer - see Refrigerator truck

Box trailer with a heating/cooling unit (reefer) attached. Used for hauling produce, ice cream, etc.

## Sidelifter

Semi-trailer with hydraulic cranes mounted at both ends of the chassis allowing for the loading and unloading of shipping containers without the need of a forklift or other container handling equipment.

## Tanker - see Tank truck

Used for hauling liquids such as gasoline, milk, orange juice, and alcohol.

A **tank truck** (United States usage) or **road tanker** (United Kingdom usage, both commonly shortened to **tanker**) is a **motor vehicle** designed to carry **liquefied loads**, **dry bulk** cargo or **gases** on roads. The largest such vehicles are similar to **railroad tank cars** which are also designed to carry liquefied loads. Many variants exist due to the wide variety of liquids that can be transported. Tank trucks tend to be large; they may be **insulated** or non-insulated; **pressurized** or non-pressurized; and designed for single or multiple loads (often by means of internal divisions in their tank). Some are **semi-trailer trucks**. They are difficult to drive due to their high center of gravity.

## Frac

A type of tank trailer with a single and fixed axle, typically used during **hydraulic fracturing** at **oil wells**.<sup>[3]</sup> It is shaped like a wedge, and when it is unhitched its bottom side lies flat on the ground.

# Hazardous Materials Warning Placards

Actual placard size: at least 273 mm (10.8 inches) on all sides

## CLASS 1 Explosives



\* For Divisions 1.1, 1.2, or 1.3, enter division number and compatibility group letter, when required; placard any quantity. For Divisions 1.4, 1.5, and 1.6, enter compatibility group letter, when required; placard 454 kg (1,001 lbs) or more.

## CLASS 2 Gases



For NON-FLAMMABLE GAS, OXYGEN (compressed gas or refrigerated liquid), and FLAMMABLE GAS, placard 454 kg (1,001 lbs) or more gross weight. For POISON GAS (Division 2.3), placard any quantity.

## CLASS 3 Flammable Liquid and Combustible Liquid



For FLAMMABLE, placard 454 kg (1,001 lbs) or more. GASOLINE may be used in place of FLAMMABLE placard displayed on a cargo tank or portable tank transporting gasoline by highway. Placard combustible liquid transported in bulk. See §172.504(f)(2) for use of FLAMMABLE placard in place of COMBUSTIBLE. FUEL OIL may be used in place of COMBUSTIBLE on a cargo or portable tank transporting fuel oil not classed as a flammable liquid by highway.

## CLASS 4 Flammable Solid, Spontaneously Combustible, and Dangerous When Wet



For FLAMMABLE SOLID and SPONTANEOUSLY COMBUSTIBLE, placard 454 kg (1,001 lbs) or more. For DANGEROUS WHEN WET (Division 4.3), placard any quantity.

## CLASS 5 Oxidizer & Organic Peroxide



For OXIDIZER and ORGANIC PEROXIDE (other than TYPE B, temperature controlled), placard 454 kg (1,001 lbs) or more. For ORGANIC PEROXIDE (Division 5.2), Type B, temperature controlled, placard any quantity.

## CLASS 6 Poison (Toxic) and Poison Inhalation Hazard



For POISON (PGI or PGII, other than inhalation hazard) and POISON (PGIII), placard 454 kg (1,001 lbs) or more. For POISON-INHALATION HAZARD (Division 6.1), inhalation hazard only, placard any quantity.

## CLASS 7 Radioactive



Placard any quantity - packages bearing RADIOACTIVE YELLOW-III labels only. Certain low specific activity radioactive materials in "exclusive use" will not bear the label, but the radioactive placard is required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with §172.504(e) Table 1 and §173.427(a)(6).

## CLASS 8 Corrosive



For CORROSIVE, placard 454 kg (1,001 lbs) or more.

## CLASS 9 Miscellaneous



Not required for domestic transportation. A bulk packaging containing a Class 9 material must be marked with the appropriate ID number displayed on a Class 9 placard, an orange panel, or a white square-on-point display.

## Dangerous



A freight container, unit load device, transport vehicle, or rail car which contains non-bulk packages with two or more categories of hazardous materials that require different placards specified in Table 2 may be placarded with DANGEROUS placards instead of the specific placards required for each of the materials in Table 2. However, when 1,000 kg (2,205 lbs) or more of one category of material is loaded at one loading facility, the placard specified in Table 2 must be applied.

**Safety begins with communication!**

– Standard Placards for Rail and Highway –



## General Guidelines on Use of Warning Labels and Placards

### LABELS

See 49 CFR, Part 172, Subpart E, for complete labeling regulations.

- The Hazardous Materials Table [§172.101, Col. 6] identifies the proper label(s) for the hazardous material listed.
- Any person who offers a hazardous material for transportation **MUST** label the package, if required [§172.400(a)].
- Labels may be affixed to packages when not required by regulations, provided each label represents a hazard of the material contained in the package [§172.401].
- For labeling mixed or consolidated packages, see §172.404.
- The appropriate hazard class or division number must be displayed in the lower corner of a primary and subsidiary hazard label [§172.402(b)].
- For classes 1, 2, 3, 4, 5, 6, and 8, text indicating a hazard (e.g., "CORROSIVE") is **NOT** required on a primary or subsidiary label. The label must otherwise conform to Subpart E of Part 172 [§172.405].
- Labels must be printed on or affixed to the surface of the package near the proper shipping name marking [§172.406(a)].
- When primary and subsidiary labels are required, they must be displayed next to each other [§172.406(c)].
- For a package containing a Division 6.1, PG III material, the POISON label specified in §172.430 may be modified to display the text PG III instead of POISON or TOXIC. Also see §172.313(d).
- The new ORGANIC PEROXIDE label becomes mandatory on 1 January 2011 and reflects the fact that organic peroxides are highly flammable and eliminates the requirements for a flammable liquid subsidiary label [§172.427]. For information, see §171.14. The color of the border must be black and the color of the flame may be black or white.

### PLACARDING TABLES

[§172.504(e)]

TABLE 1

Category of material (Hazard Class or division number and additional description, as appropriate)	Placard name
1.1	EXPLOSIVES 1.1
1.2	EXPLOSIVES 1.2
1.3	EXPLOSIVES 1.3
2.3	POISON GAS
4.3	DANGEROUS WHEN WET
5.2 (Organic peroxide, Type II, liquid or solid, temperature controlled)	ORGANIC PEROXIDE
6.1 (materials poisonous by inhalation (see §171.8 of this subchapter))	POISON INHALATION HAZARD
7 (Radioactive Yellow III label only)	RADIOACTIVE

\* RADIOACTIVE placard also required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with §173.427(a)(8).

TABLE 2

Category of material (Hazard Class or division number and additional description, as appropriate)	Placard name
1.4	EXPLOSIVES 1.4
1.5	EXPLOSIVES 1.5
1.6	EXPLOSIVES 1.6
2.1	FLAMMABLE GAS
2.2	NON-FLAMMABLE GAS
3	FLAMMABLE
Combustible Liquid	COMBUSTIBLE
4.1	FLAMMABLE SOLID
4.2	SPONTANEOUSLY COMBUSTIBLE
5.1	OXIDIZER
5.2 (Other than organic peroxide, Type B, liquid or solid, temperature controlled)	ORGANIC PEROXIDE
6.1 (Other than materials poisonous by inhalation)	POISON
6.2	(None)
8	CORROSIVE
9	Class 9 (see §172.504(f)(9))
ORM D	(None)

### PLACARDS

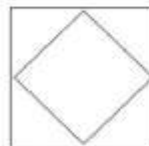
See 49 CFR, Part 172, Subpart F, for complete placarding regulations.

- Each person who offers for transportation or transports any hazardous material subject to the Hazardous Materials Regulations must comply with all applicable requirements of Subpart F [§172.500].
- Placards may be displayed for a hazardous material, even when not required, if the placarding otherwise conforms to the requirements of Subpart F of Part 172 [§172.502(c)].
- For other than Class 7 or the DANGEROUS placard, text indicating a hazard (e.g., "FLAMMABLE") is not required. Text may be omitted from the OXYGEN placard only if the specific ID number is displayed on the placard [§172.519(b)(3)].
- For a placard corresponding to the primary or subsidiary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard.
- Any bulk packaging, freight container, unit load device, transport vehicle or rail car containing any quantity of material listed in Table 1 must be placarded [§172.504].
- When the aggregate gross weight of all hazardous materials in non-bulk packages covered in Table 2 is less than 454 kg (1,001 lbs), no placard is required on a transport vehicle or freight container when transported by highway or rail [§172.504(c)].
- Notes: See §172.504(f)(10) for placarding Division 6.1, PG III materials.
- Placarded loads require registration with USDOT. See §107.601 for registration regulations.
- The new ORGANIC PEROXIDE placard becomes mandatory 1 January 2011 for transportation by rail, vessel, or aircraft and 1 January 2014 for transportation by highway. The placard will enable transport workers to readily distinguish peroxides from oxidizers [§172.552]. For information, see §171.14.

### IDENTIFICATION NUMBER DISPLAYS



IDENTIFICATION NUMBER MARKINGS ON ORANGE PANELS OR APPROPRIATE PLACARDS MUST BE DISPLAYED ON: (1) Tank Cars, Cargo Tanks, Portable Tanks, and other Bulk Packagings; (2) Transport vehicles or freight containers containing 4,000 kg (8,820 lbs) in non-bulk packages of only a single hazardous material having the same proper shipping name and identification number loaded at one locality and transport vehicle contains no other material, hazardous or otherwise; and (3) transport vehicles or freight containers containing 1,000 kg (2,205 lbs) of non-bulk packages of materials poisonous by inhalation in Hazard Zone A or B. See §§172.301(a)(3), 172.326, 172.328, 172.330, and 172.331.



§172.527

Square white background required for placard for highway route controlled quantity radioactive material and for rail shipment of certain explosives and poisons, and for flammable gas in a DOT 113 tank car [§172.507 and §172.510].

This Chart is available online at the following link:  
<http://phmsa.dot.gov/hazmat>



U.S. Department of Transportation  
 Pipeline and Hazardous Materials Safety Administration

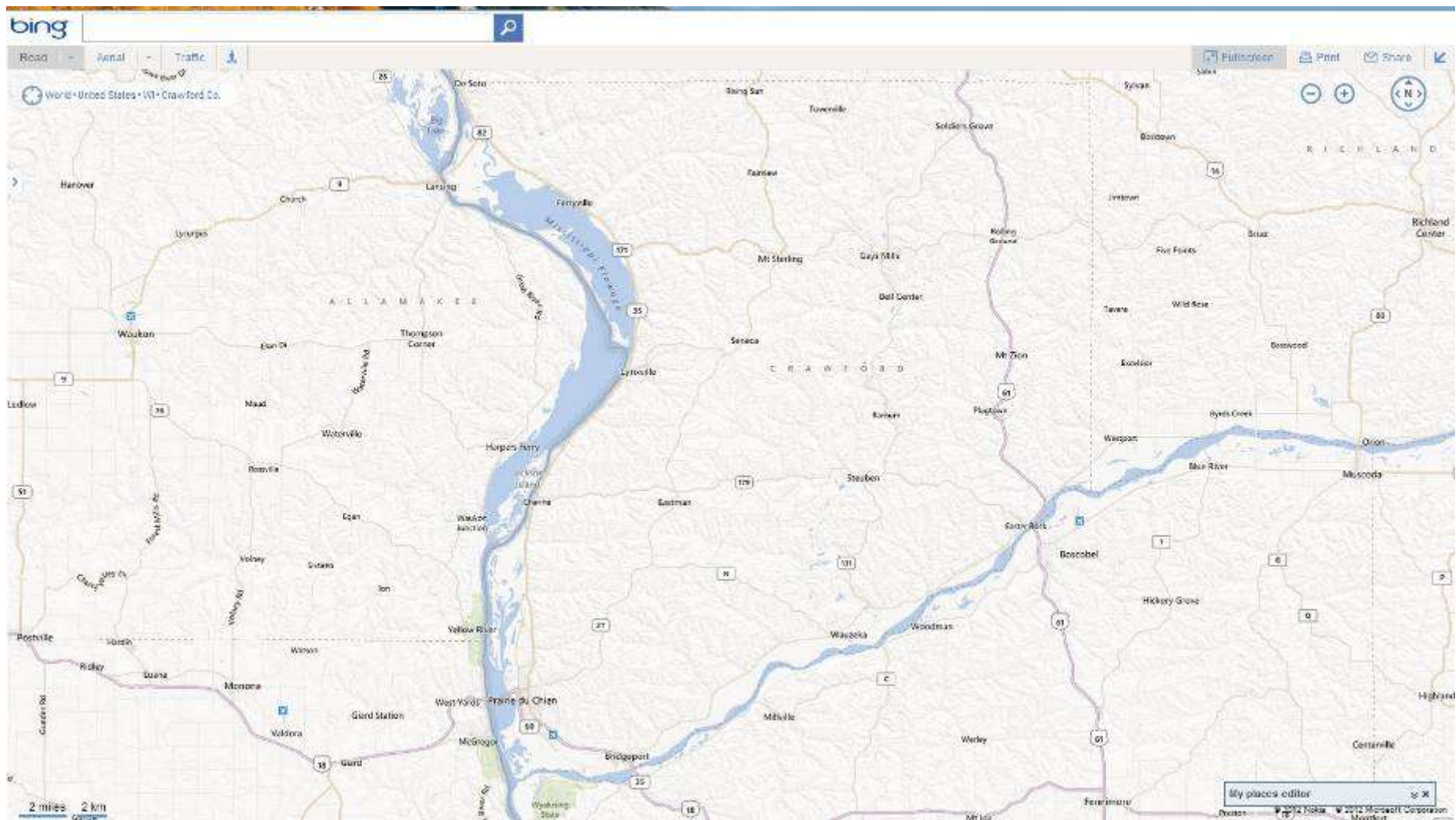
USDOT/PHMSA/OHMIT/PHH-50  
 1200 New Jersey Avenue, SE  
 Washington, D.C. 20590  
 Phone: (202) 366-4900  
 Email: [training@dot.gov](mailto:training@dot.gov)

PHH50-0118-1110

## Placarding Guidelines

## Crawford County Observation Data





CRAWFORD COUNTY HIGHWAY MAP

## Non-Hazmat Truck Count

Location: Intersection of Blackhawk Hwy 27 &  
Marquette-Hwy 35 [Walgreens], Prairie du Chien

Date: 07/31/2012

Start Time: 05:30

End Time: 21:06

53' Van General	= 170
53' Van Reefer	= 27
53' Van Food	= 1
40' - 48' Van General	= 9
Small Van/Truck	= 152
28' Pup Single	= 11
28' Pup Dual	= 4
Open Box Bulk	= 43
Open Box Specialty	= 17
Grain (Auger)	= 4
2-Cell Hopper	= 60
3, 4-Cell Hopper	= 11
Rack Truck (Logs)	= 26
Flat Bed	= 36
Low Boy	= 23
Large Tanker	= 22
Small Tanker	= 14
Chemical Tanker	= 1
Heavy Liquids Tanker	= 0
Cattle Truck	= 9
Car Carrier	= 0
Other	= 57

Total Obs. Hours: 15:36

## Non-Hazmat Truck Count

Location: Intersection of Blackhawk Hwy 27 &  
Marquette-Hwy 35 [Walgreens], Prairie du Chien

Date: 08/01/2012

Start Time: 06:00

End Time: 16:00

53' Van General	= 152
53' Van Reefer	= 17
53' Van Food	= 0
40' - 48' Van General	= 10
Small Van/Truck	= 67
28' Pup Single	= 17
28' Pup Dual	= 2
Open Box Bulk	= 52
Open Box Specialty	= 9
Grain (Auger)	= 2
2-Cell Hopper	= 19
3, 4-Cell Hopper	= 6
Rack Truck (Logs)	= 26
Flat Bed	= 36
Low Boy	= 27
Large Tanker	= 18
Small Tanker	= 11
Chemical Tanker	= 2
Heavy Liquids Tanker	= 0
Cattle Truck	= 4
Car Carrier	= 2
Other	= 74

Total Obs. Hours: 10:00

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: PRAIRIE DU CHIEN

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
3257	9	Hot Liquid	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	07/31/2012	08:01
1075	2	Propane	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	07/31/2012	10:15
1203	3	Gasoline	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	07/31/2012	11:16
3257	9	Hot Liquid	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	07/31/2012	11:30
1203	3	Gasoline	Multi-Grade Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	07/31/2012	11:37
1075	2	Propane	Tank Setter	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	07/31/2012	11:38
1203	3	Gasoline	Multi-Grade Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	07/31/2012	12:09
1993	3	Flammable Liquid	Multi-Grade Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	07/31/2012	12:15
1203	3	Gasoline	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	E	07/31/2012	12:26
Flammable	3	General	Dual Pup	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	07/31/2012	12:34
1203	3	Gasoline	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	07/31/2012	13:45
1075	2	Propane	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	07/31/2012	15:23
Oxygen, Flammable Gas	2, 2	Oxy-Acetylene Welding Gases	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	07/31/2012	15:30

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: PRAIRIE DU CHIEN

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1203	3	Gasoline	Multi-Grade Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	06:40
1203	3	Gasoline	Multi-Grade Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	07:20
3257	9	Hot Liquid	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	07:28
1977		Liquid Nitrogen	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	08:21
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders Welding	Delivery Van	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	08:35
Non-Flam Gas	2	CO <sub>2</sub>	Tank/Van	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	09:14
1977		Liquid Nitrogen	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	09:15
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders Welding	Delivery Van	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	E	08/01/2012	10:13
Non-Flam Gas	2	CO <sub>2</sub>	Tank/Van	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	W	08/01/2012	10:14
1203	3	Gasoline	Multi-Grade Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	10:28
3257	9	Hot Liquid	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	11:05
2924	3	Flammable Liquid	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	11:10
1203	3	Gasoline	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	11:33
1993	3	Flammable Liquid	Large Tanker	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	11:51
1075	2	Propane	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	E	08/01/2012	13:03
1075	2	Propane Cylinders	Cylinder Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	13:09
1203	3	Gasoline	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	N	08/01/2012	13:29
1075	2	Propane	Small Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	14:54
Flam / Non-Flam Gas	2, 2	Flam/Non-Flam Gas Cylinders Welding	Delivery Van	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	15:27
1075	2	Propane Cylinders	Cylinder Delivery	Hwy 27 - Blackhawk Ave., Hwy 35 - Marquette Rd.	S	08/01/2012	15:57

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

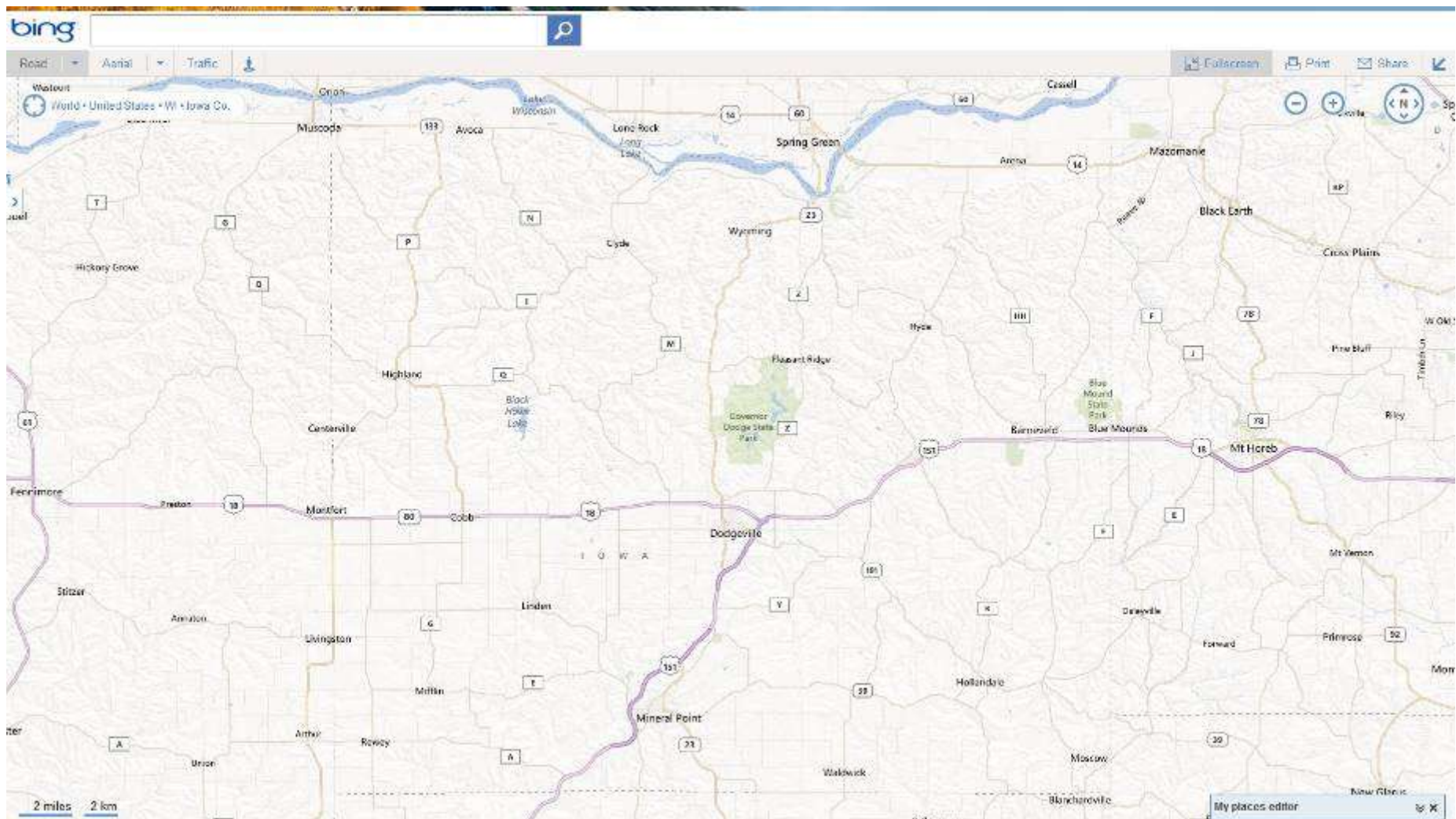
On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.



## Iowa County Observation Data



## Non-Hazmat Truck Count

Location: Intersection of North Bequette Street-Hwy  
23 & Dodgeville Expy-Hwy 18, Dodgeville

Date: 08/09/2012

Start Time: 05:45

End Time: 19:30

53' Van General	=	151	
53' Van Reefer	=	59	Mix of Pup, 28' and Van Reefers
53' Van Food	=	0	
40' - 48' Van General	=	14	ALL - Intermodal
Small Van/Truck	=	186	
28' Pup Single	=	6	
28' Pup Dual	=	2	
Open Box Bulk	=	15	
Open Box Specialty	=	12	
Grain (Auger)	=	16	
2-Cell Hopper	=	29	
3, 4-Cell Hopper	=	6	
Rack Truck (Logs)	=	17	
Flat Bed	=	33	
Low Boy	=	56	
Large Tanker	=	31	
Small Tanker	=	21	
Chemical Tanker	=	6	
Heavy Liquids Tanker	=	3	
Cattle Truck	=	16	
Car Carrier	=	4	
Other	=	68	

Total Obs. Hours: 13:45

## Non-Hazmat Truck Count

Location: R Equipment, Munz Road [Frontage], Hwy 151, Dodgeville

Date: 08/10/2012

Start Time: 05:30

End Time: -----

53' Van General	= 202	
53' Van Reefer	= 117	Mix of Pup, 28' and Van Reefers
53' Van Food	= 0	
40' - 48' Van General	= 3	ALL - Intermodal
Small Van/Truck	= 115	
28' Pup Single	= 3	
28' Pup Dual	= 0	
Open Box Bulk	= 9	
Open Box Specialty	= 4	
Grain (Auger)	= 13	
2-Cell Hopper	= 16	
3, 4-Cell Hopper	= 7	
Rack Truck (Logs)	= 1	
Flat Bed	= 24	
Low Boy	= 48	
Large Tanker	= 19	
Small Tanker	= 6	
Chemical Tanker	= 1	
Heavy Liquids Tanker	= 0	
Cattle Truck	= 7	
Car Carrier	= 0	
Other	= 31	

## Non-Hazmat Truck Count

Location: R Equipment, Munz Road [Frontage], Hwy 151, Dodgeville

Date: 08/10/2012

Start Time: -----

End Time: 20:30

53' Van General	=	220	
53' Van Reefer	=	132	Mix of Pup, 28' and Van Reefers
53' Van Food	=	2	
40' - 48' Van General	=	12	ALL - Intermodal
Small Van/Truck	=	117	
28' Pup Single	=	5	
28' Pup Dual	=	1	
Open Box Bulk	=	24	
Open Box Specialty	=	9	
Grain (Auger)	=	14	
2-Cell Hopper	=	39	
3, 4-Cell Hopper	=	8	
Rack Truck (Logs)	=	2	
Flat Bed	=	50	
Low Boy	=	53	
Large Tanker	=	48	
Small Tanker	=	12	
Chemical Tanker	=	6	
Heavy Liquids Tanker	=	8	
Cattle Truck	=	7	
Car Carrier	=	1	
Other	=	79	

Total Obs. Hours: 15:00



## DOT HIGHWAY HAZMAT DATA TABLE

CITY: DODGEVILLE

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1.1D	1	Explosives	Specialized	Hwy 18 & 23 Intersection	N	08/09/2012	06:05
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	06:15
1075	2	Propane	Large Tanker	Hwy 18 & 23 Intersection	N	08/09/2012	06:42
1830, 1824, 1791, Flammable, Corrosive, Oxidizers	8 3, 8, 5.1	Mixed Liquids & Solids Hazardous Waste	53' Van [Hydrite]	Hwy 18 & 23 Intersection	W	08/09/2012	07:00
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	07:32
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	07:40
1993	3	Flammable Liquid	Multi-Grade Tanker	Hwy 18 & 23 Intersection	N	08/09/2012	07:41
1274, 1276, 1173, 1993	3	Flammable Liquids	Large Tanker [Hydrite]	Hwy 18 & 23 Intersection	E	08/09/2012	07:55
1791	8	Corrosive Liquid	Large Tanker	Hwy 18 & 23 Intersection	S	08/09/2012	08:23
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	N	08/09/2012	09:08
1203	3	Gasoline	Small Delivery	Hwy 18 & 23 Intersection	S, W	08/09/2012	09:17
1791, Corrosive, Oxidizers	8, 5.1	Liquids	Flat Bed Van	Hwy 18 & 23 Intersection	W	08/09/2012	10:05
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders Welding	Delivery	Hwy 18 & 23 Intersection	W	08/09/2012	10:47
1203	3	Gasoline	Small Delivery	Hwy 18 & 23 Intersection	N	08/09/2012	10:48
1210	3	General	53' Van	Hwy 18 & 23 Intersection	W	08/09/2012	10:49
1987	3	Flammable Liquid	Multi-Grade Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	10:53
1977	2	Liquid Nitrogen	Large Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	11:16
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	11:17
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	11:30

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: DODGEVILLE

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	11:39
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	12:10
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	12:21
1075	2	Propane	Small Delivery	Hwy 18 & 23 Intersection	W	08/09/2012	12:44
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	13:20
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	13:42
3139, 1.1D	5.1, 1	Explosives	Specialized	Hwy 18 & 23 Intersection	E	08/09/2012	13:43
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	13:43
1203	3	Gasoline	Small Delivery	Hwy 18 & 23 Intersection	E	08/09/2012	13:53
1977	2	Liquid Nitrogen	Large Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	14:09
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	N	08/09/2012	14:17
Dangerous	8	General	Dual Pup	Hwy 18 & 23 Intersection	W	08/09/2012	14:42
1203	3	Gasoline	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	14:47
1075	2	Propane	Small Delivery	Hwy 18 & 23 Intersection	N	08/09/2012	14:53
1760	8	General Agricultural	Small Delivery	Hwy 18 & 23 Intersection	E	08/09/2012	16:23
1993	3	Flammable Liquid	Multi-Grade Tanker	Hwy 18 & 23 Intersection	W	08/09/2012	16:34
1977	2	Liquid Nitrogen	Large Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	17:27
1977	2	Liquid Nitrogen	Large Tanker	Hwy 18 & 23 Intersection	E	08/09/2012	17:46
1977	2	Liquid Nitrogen	Pickup	Hwy 18 & 23 Intersection	W	08/09/2012	18:53

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: DODGEVILLE

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1.1D, 1993, Oxidizer	1, 3, 5.1	Explosives, Combustibles	Specialized	R Equipment, Hwy 151	N	08/10/2012	06:00
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	06:15
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	06:15
1993	3	Flammable Liquid	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	06:27
1.1D, 1993, 1942	1, 3, 5.1	Explosives, Combustibles, ANFO	Quarry Explosives Hopper	R Equipment, Hwy 151	N	08/10/2012	06:38
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	06:45
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	07:02
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	07:28
1977	2	Liquid Nitrogen	Large Tanker	R Equipment, Hwy 151	S	08/10/2012	07:36
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	07:40
Dangerous		Mixed General	53' Van	R Equipment, Hwy 151	N	08/10/2012	08:05
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	08:13
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	08:21
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	08:40
1977	2	Liquid Nitrogen	Pickup [Accel. Genetics]	R Equipment, Hwy 151	N	08/10/2012	08:50
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	08:59
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	09:04
1.1D Explosives	1	Explosives	Van	R Equipment, Hwy 151	S	08/10/2012	09:20
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	09:48
1075	2	Propane	Specialty Small Tank	R Equipment, Hwy 151	S	08/10/2012	10:16

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: DODGEVILLE

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	10:31
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	10:31
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	10:48
Poison	6	Agricultural Supplies	53' Van	R Equipment, Hwy 151	N	08/10/2012	10:50
Corrosive	8	General	Van	R Equipment, Hwy 151	S	08/10/2012	11:23
2821	6	Liquid	Large Tanker	R Equipment, Hwy 151	S	08/10/2012	11:36
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	11:42
[Multiple]	3, 6, 8, 9	Hazardous Waste	53' Van [Clean Harbors]	R Equipment, Hwy 151	S	08/10/2012	11:55
Corrosive	8	General	53' Van	R Equipment, Hwy 151	S	08/10/2012	12:19
2187	2	CO <sub>2</sub>	Large Tanker	R Equipment, Hwy 151	S	08/10/2012	12:31
1824	8	Liquid	Large Tanker	R Equipment, Hwy 151	N	08/10/2012	12:43
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	12:56
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	13:14
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	N	08/10/2012	13:24
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	13:41
1.1D, 1993, 1942	1, 3, 5.1	Explosives, Combustibles, ANFO	Quarry Explosives Hopper	R Equipment, Hwy 151	S	08/10/2012	14:04
Flammable	3	General	53' Van	R Equipment, Hwy 151	S	08/10/2012	14:08
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	14:09
1203	3	Gasoline	Multi-Grade Tanker	R Equipment, Hwy 151	S	08/10/2012	14:25
3257	9	Hot Liquid	Large Tanker	R Equipment, Hwy 151	N	08/10/2012	15:14

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: DODGEVILLE

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1993	3	Flammable Liquid	Specialized Explosives Unit	R Equipment, Hwy 151	N	08/10/2012	15:45
2834	8	Liquid	Large Tanker	R Equipment, Hwy 151	S	08/10/2012	16:33
2187	2	CO <sub>2</sub>	Large Tanker	R Equipment, Hwy 151	N	08/10/2012	16:42
1075	2	Propane	Flatbed w/ 500 gallon Tank	R Equipment, Hwy 151	S	08/10/2012	17:02
1993, 1942	3, 5.1	Combustibles, ANFO	Quarry Explosives Hopper	R Equipment, Hwy 151	S	08/10/2012	17:06
1170	3	Liquid	Large Tanker	R Equipment, Hwy 151	N	08/10/2012	17:16
3257	9	Hot Liquid	Large Tanker	R Equipment, Hwy 151	N	08/10/2012	17:37
??24	8	Liquid	Large Tanker	R Equipment, Hwy 151	S	08/10/2012	18:13
Corrosive	8	General	53' Van	R Equipment, Hwy 151	S	08/10/2012	20:22

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

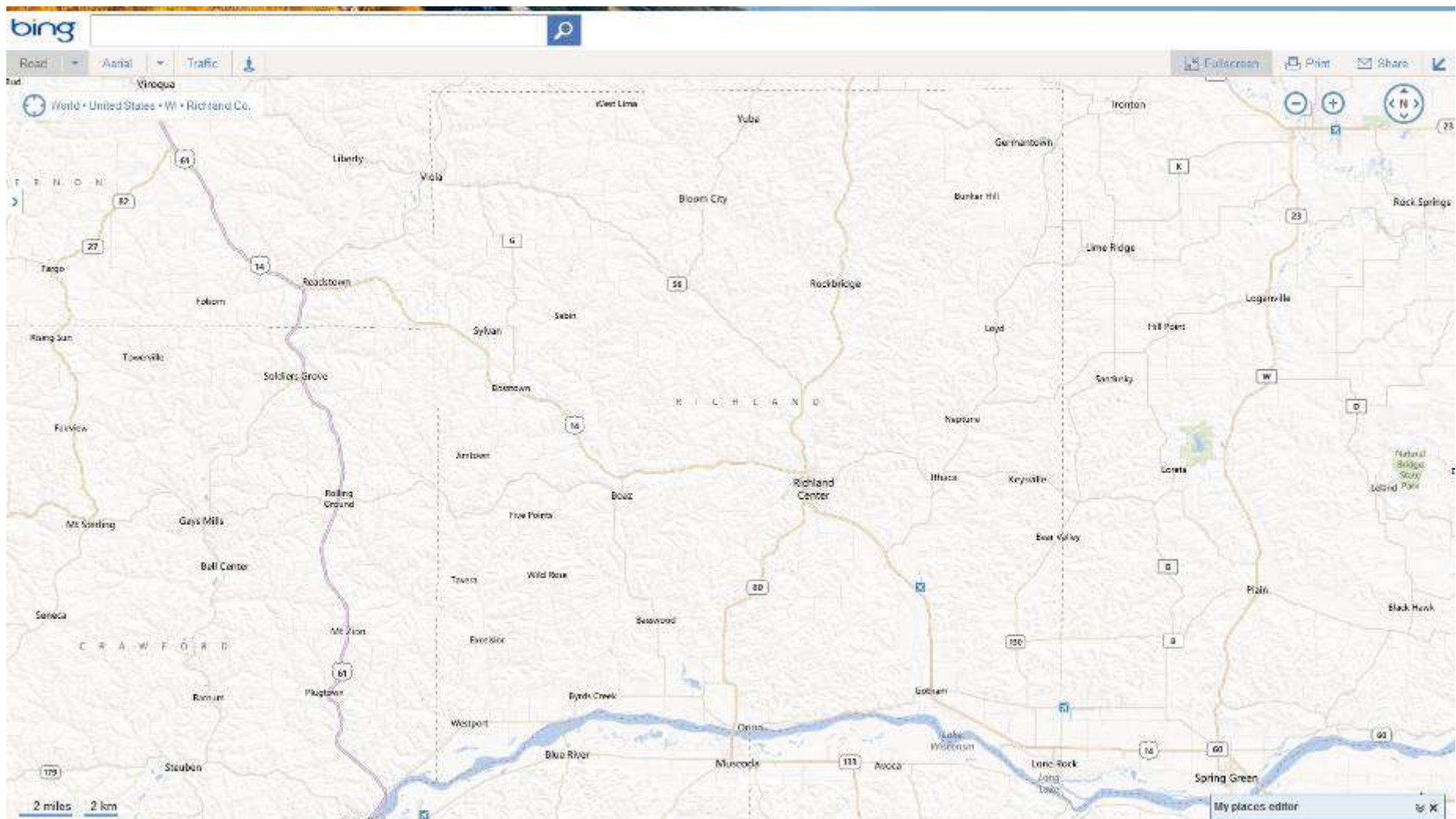
On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.



## Richland County Observation Data



## Non-Hazmat Truck Count

Location: Intersection of 14 & 80 [Foremost],  
Richland Center

Date: 07/23/2012

Start Time: 08:24

End Time: 20:41

53' Van General	= 130	Based on statistics from later data gathering, for RC, slightly higher than 1 to 1 Reefer to General 53' Van would typically be the case. Then the actuals would be: 66, General; 70, Reefer.
53' Van Reefer	= 6	
53' Van Food	= 5	
40' - 48' Van General	= 12	
Small Van/Truck	= 1	
28' Pup Single	= 5	
28' Pup Dual	= 2	
Open Box Bulk	= 14	
Open Box Specialty	= 7	
Grain (Auger)	= 5	
2-Cell Hopper	= 9	
3, 4-Cell Hopper	= 4	
Rack Truck (Logs)	= 9	
Flat Bed	= 27	
Low Boy	= 1	
Large Tanker	= 41	
Small Tanker	= 2	
Chemical Tanker	= 1	
Heavy Liquids Tanker	= 4	
Cattle Truck	= 2	
Car Carrier	= 1	
Other	= 2	

Total Obs. Hours: 12:17

## Non-Hazmat Truck Count

Location: Intersection of 14 & 80 [Foremost],  
Richland Center

Date: 07/25/2012

Start Time: 05:55

End Time: 12:30

53' Van General	= 34	
53' Van Reefer	= 46	
53' Van Food	= 1	
40' - 48' Van General	= 2	
Small Van/Truck	= 89	
28' Pup Single	= 3	1 Reefer unit
28' Pup Dual	= 1	
Open Box Bulk	= 8	
Open Box Specialty	= 7	
Grain (Auger)	= 6	
2-Cell Hopper	= 12	
3, 4-Cell Hopper	= 0	
Rack Truck (Logs)	= 9	
Flat Bed	= 16	
Low Boy	= 3	
Large Tanker	= 26	
Small Tanker	= 42	
Chemical Tanker	= 2	
Heavy Liquids Tanker	= 3	
Cattle Truck	= 4	
Car Carrier	= 1	
Other	= 54	

Total Obs. Hours: 06:35

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: RICHLAND CENTER

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	N	07/23/2012	09:00
1203	3	Gasoline	Small Delivery	Hwy 14 & 80 Intersection	E	07/23/2012	09:19
Corrosive	8	Dairy - Corrosives	Van	Hwy 14 & 80 Intersection	S	07/23/2012	09:34
Corrosive	8	General	53' Van	Hwy 14 & 80 Intersection	N	07/23/2012	09:57
1075	2	Propane	Large Tanker	Hwy 14 & 80 Intersection	N	07/23/2012	10:03
Corrosive	8	Dairy - Corrosives	Van	Hwy 14 & 80 Intersection	E	07/23/2012	10:21
Corrosive	8	General	40' Van	Hwy 14 & 80 Intersection	S	07/23/2012	10:59
Corrosive	8	General	40' Van	Hwy 14 & 80 Intersection	W	07/23/2012	11:20
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	W	07/23/2012	11:25
Corrosive	8	Dairy - Corrosives	Van	Hwy 14 & 80 Intersection	N	07/23/2012	11:56
1993	3	Fuel	Multi-Grade Tanker	Hwy 14 & 80 Intersection	W	07/23/2012	12:03
Oxygen	2	Oxygen	Medical Supply Van	Hwy 14 & 80 Intersection	S	07/23/2012	12:27
Non-Flam Gas	2	Non-Flammable Gas	Medical Supply Van	Hwy 14 & 80 Intersection	S	07/23/2012	12:27
1075	2	Propane	Tank Setter	Hwy 14 & 80 Intersection	S	07/23/2012	12:39
1017, 1778, 2693, 1791	2, 8	Gas, Corrosives	Van	Hwy 14 & 80 Intersection	W	07/23/2012	12:47
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	N	07/23/2012	14:36
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	W	07/23/2012	15:13
1987	3	Flammable Liquid	Multi-Grade Tanker	Hwy 14 & 80 Intersection	W	07/23/2012	16:15
Corrosive	8	Corrosives	Van	Hwy 14 & 80 Intersection	W	07/23/2012	16:24
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	E	07/23/2012	17:04
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	S	07/23/2012	17:40
Flammable	3	Flammable Liquid	Large Tanker	Hwy 14 & 80 Intersection	W	07/23/2012	20:05

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)  
 Small Delivery [Gasoline] = 3,000 Gallons  
 Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)  
 Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.  
 Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.



## DOT HIGHWAY HAZMAT DATA TABLE

CITY: RICHLAND CENTER

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders	Gas Cylinder Delivery	Hwy 14 & 80 Intersection	N	07/25/2012	06:33
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders	Gas Cylinder Delivery	Hwy 14 & 80 Intersection	E	07/25/2012	06:54
1073	2	Liquid Oxygen	Truck Trailer	Hwy 14 & 80 Intersection	N	07/25/2012	07:52
1203	3	Gasoline	Multi-Grade Tanker	Hwy 14 & 80 Intersection	W	07/25/2012	07:52
1.1D, 1993, 1942	1, 3, 5.1	Explosives, Combustibles, ANFO	Quarry Explosives Hopper	Hwy 14 & 80 Intersection	N	07/25/2012	08:02
Corrosive	8	Unknown	53' Van	Hwy 14 & 80 Intersection	S	07/25/2012	08:30
1075	2	Propane	Small Delivery	Hwy 14 & 80 Intersection	W	07/25/2012	08:32
Corrosive	8	Agricultural	Van	Hwy 14 & 80 Intersection	S	07/25/2012	08:54
1075	2	Propane	Large Tanker	Hwy 14 & 80 Intersection	S	07/25/2012	09:28
1814	8	Unknown Liquid	Large Tanker	Hwy 14 & 80 Intersection	N	07/25/2012	09:42
Dangerous, Corrosive, 1791	8, 8	Mixed Load	53' Reefer Van	Hwy 14 & 80 Intersection	N	07/25/2012	10:17
Flammable	3	Unknown	53' Van	Hwy 14 & 80 Intersection	E	07/25/2012	11:06
1075	2	Propane	Small Delivery	Hwy 14 & 80 Intersection	E	07/25/2012	11:16
1203	3	Gasoline	Small Delivery	Hwy 14 & 80 Intersection	S	07/25/2012	11:42
Flammable	3	Flammable	53' Van	Hwy 14 & 80 Intersection	S	07/25/2012	11:43
2874	6	Poison F/A	Large Tanker	Hwy 14 & 80 Intersection	W	07/25/2012	12:23

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

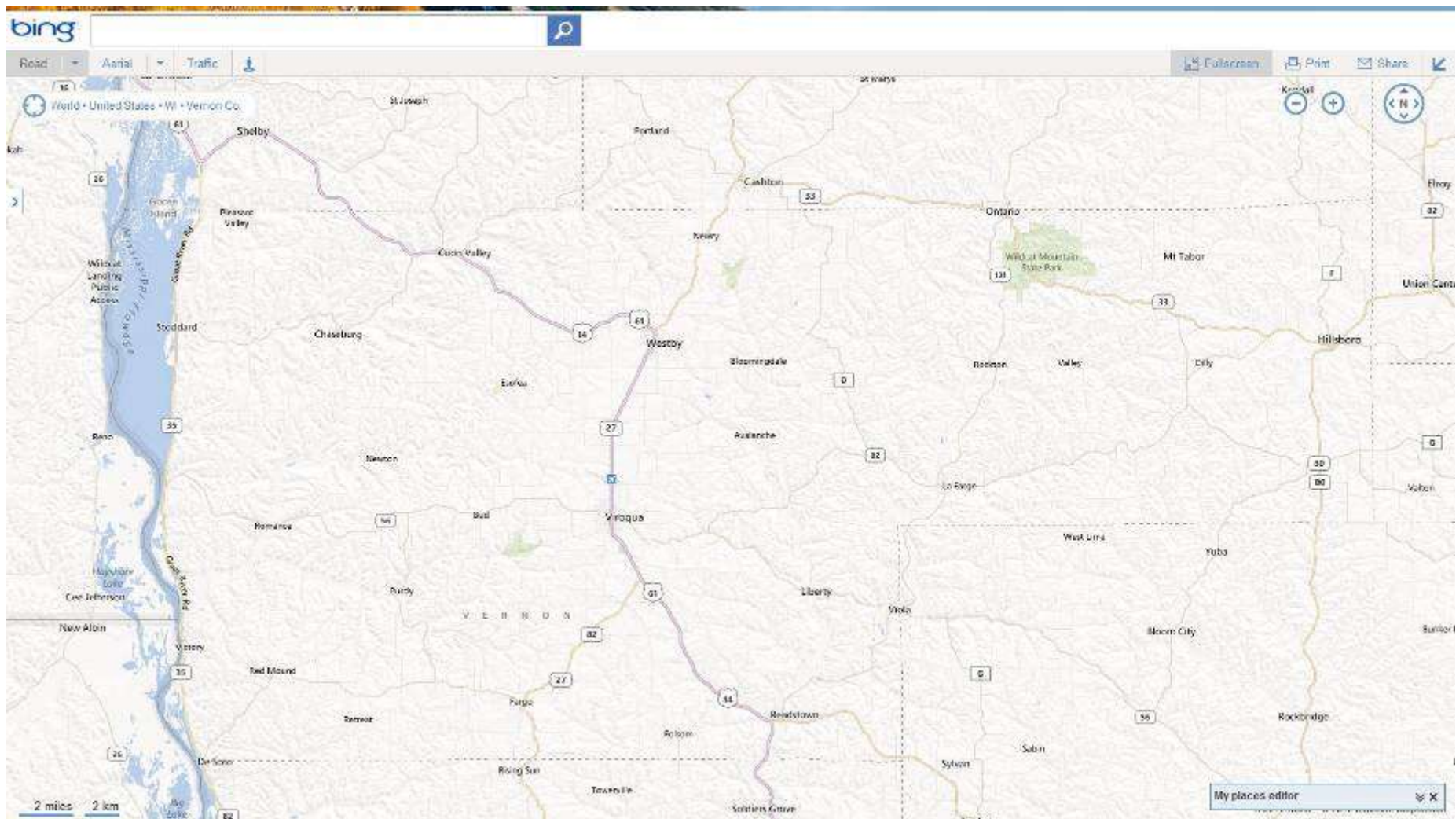
Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.  
Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## Vernon County Observation Data



## Non-Hazmat Truck Count

Location: Genoa Tobacco Warehouse, Hwy 35,  
Genoa

Date: 08/02/2012

Start Time: 08:00

End Time: 21:00

53' Van General	= 41	
53' Van Reefer	= 14	
53' Van Food	= 1	
40' - 48' Van General	= 3	1 - Intermodal
Small Van/Truck	= 83	
28' Pup Single	= 3	
28' Pup Dual	= 3	
Open Box Bulk	= 20	
Open Box Specialty	= 9	
Grain (Auger)	= 1	
2-Cell Hopper	= 3	
3, 4-Cell Hopper	= 9	
Rack Truck (Logs)	= 0	
Flat Bed	= 27	
Low Boy	= 11	
Large Tanker	= 18	
Small Tanker	= 3	
Chemical Tanker	= 2	
Heavy Liquids Tanker	= 0	
Cattle Truck	= 2	
Car Carrier	= 0	
Other	= 38	

Total Obs. Hours: 13:00

## Non-Hazmat Truck Count

Location: Intersection of Main & Decker [Hwys: 14, 27, 56, 61, 82], Viroqua

Date: 08/07/2012

Start Time: 05:25

End Time: 20:30

53' Van General	= 98	
53' Van Reefer	= 53	Mix of Pup, 28' and Van Reefers
53' Van Food	= 0	
40' - 48' Van General	= 5	1 - Intermodal
Small Van/Truck	= 139	
28' Pup Single	= 7	
28' Pup Dual	= 1	
Open Box Bulk	= 15	
Open Box Specialty	= 17	
Grain (Auger)	= 14	
2-Cell Hopper	= 39	
3, 4-Cell Hopper	= 10	
Rack Truck (Logs)	= 17	
Flat Bed	= 44	
Low Boy	= 37	
Large Tanker	= 15	
Small Tanker	= 23	
Chemical Tanker	= 0	
Heavy Liquids Tanker	= 2	
Cattle Truck	= 8	
Car Carrier	= 2	
Other	= 121	

Total Obs. Hours: 15:05



## Non-Hazmat Truck Count

Location: Intersection of Main & Decker [Hwys: 14, 27, 56, 61, 82], Viroqua

Date: 08/08/2012

Start Time: 05:05

End Time: 18:00

53' Van General	= 85	
53' Van Reefer	= 47	Mix of Pup, 28' and Van Reefers
53' Van Food	= 0	
40' - 48' Van General	= 4	2 - Intermodal
Small Van/Truck	= 152	
28' Pup Single	= 1	
28' Pup Dual	= 0	
Open Box Bulk	= 21	
Open Box Specialty	= 14	
Grain (Auger)	= 10	
2-Cell Hopper	= 30	
3, 4-Cell Hopper	= 10	
Rack Truck (Logs)	= 7	
Flat Bed	= 49	
Low Boy	= 32	
Large Tanker	= 16	
Small Tanker	= 25	
Chemical Tanker	= 0	
Heavy Liquids Tanker	= 0	
Cattle Truck	= 10	
Car Carrier	= 0	
Other	= 87	

Total Obs. Hours: 12:55

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: GENOA

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1203	3	Gasoline	Multi-Grade Tanker	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	09:12
3257	9	Hot Liquid	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	09:20
1075	2	Propane Cylinders	Cylinder Delivery	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	10:36
1075	2	Propane	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	10:36
3257	9	Hot Liquid	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	12:02
1075	2	Propane	Small Delivery	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	12:39
Non-Flam Gas	2	Gas	53' Van	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	13:10
1075	2	Propane	Tank Setter	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	13:18
3257	9	Hot Liquid	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	13:46
1075	2	Propane	Small Delivery	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	14:35
3257	9	Hot Liquid	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	14:45
1075	2	Propane	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	15:01
3257	9	Hot Liquid	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	S	08/02/2012	15:40
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders	Gas Cylinder Delivery	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	17:18
3257	9	Hot Liquid	Large Tanker	Hwy 35, Genoa Boat Landing, Tobacco	N	08/02/2012	20:58

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: VIROQUA

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
3257	9	Hot Liquid	Large Tanker	Main St. & Decker St.	N	08/07/2012	06:32
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	N	08/07/2012	06:58
1999	3	Flammable Liquid	Large Tanker	Main St. & Decker St.	S	08/07/2012	07:47
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	N	08/07/2012	08:06
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	N	08/07/2012	08:23
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	S	08/07/2012	08:37
3257	9	Hot Liquid	Large Tanker	Main St. & Decker St.	N	08/07/2012	08:39
1075	2	Propane	Small Delivery	Main St. & Decker St.	W	08/07/2012	08:51
1203	3	Gasoline	Small Delivery	Main St. & Decker St.	E	08/07/2012	09:22
1005	2	Anhydrous Ammonia	Large Tanker	Main St. & Decker St.	N	08/07/2012	09:23
1203	3	Gasoline	Small Delivery	Main St. & Decker St.	S	08/07/2012	09:38
1075	2	Propane	Small Delivery	Main St. & Decker St.	S	08/07/2012	09:53
1999	3	Flammable Liquid	Large Tanker	Main St. & Decker St.	N	08/07/2012	10:03
1203	3	Gasoline	Small Delivery	Main St. & Decker St.	N	08/07/2012	10:16
1075	2	Propane	Large Tanker	Main St. & Decker St.	N	08/07/2012	10:37
1993	3	Flammable Liquid	Large Tanker	Main St. & Decker St.	N	08/07/2012	11:00
Flam / Non-Flam Gas	2	Flam/Non-Flam Gas Cylinders	Gas Cylinder Delivery	Main St. & Decker St.	W	08/07/2012	11:02
1075	2	Propane	Tank Setter	Main St. & Decker St.	W	08/07/2012	11:03
3257	9	Hot Liquid	Large Tanker	Main St. & Decker St.	N	08/07/2012	11:04
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	S	08/07/2012	11:05

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## DOT HIGHWAY HAZMAT DATA TABLE

CITY: VIROQUA

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
2187	2	CO <sub>2</sub>	Large Tanker	Main St. & Decker St.	N	08/07/2012	11:22
Flam / Non-Flam Gas	2	Welding Gases	Delivery Van	Main St. & Decker St.	S	08/07/2012	11:46
1203	3	Gasoline	Small Delivery	Main St. & Decker St.	E	08/07/2012	11:59
Oxygen, Corrosive, Flammable	5.1, 8, 3	General Mixed Load	53' Van	Main St. & Decker St.	N	08/07/2012	12:01
1075	2	Specialized Propane	Truck & Trailer	Main St. & Decker St.	S	08/07/2012	12:20
1993, Dangerous	3	Mixed Flammables	53' Van	Main St. & Decker St.	S	08/07/2012	12:46
1075	2	Propane	Small Delivery	Main St. & Decker St.	N	08/07/2012	13:23
1075	2	Propane	Small Delivery	Main St. & Decker St.	S	08/07/2012	14:03
1993, 3295	3	Solvents	53' Van	Main St. & Decker St.	S	08/07/2012	14:25
Flam Solid, Flammable, Poison	3, 4, 6	Mixed	53' Van	Main St. & Decker St.	N	08/07/2012	14:28
1075	2	Propane	Small Delivery	Main St. & Decker St.	N	08/07/2012	14:56
Corrosive	8	General	53' Van	Main St. & Decker St.	N	08/07/2012	15:07
Non-Flam Gas, Corrosive	2, 8	General Mixed Load	53' Van	Main St. & Decker St.	E	08/07/2012	15:35
2187	2	CO <sub>2</sub>	Large Tanker	Main St. & Decker St.	S	08/07/2012	16:05
1999	3	Hot Liquid	Small Tanker	Main St. & Decker St.	N	08/07/2012	17:26
3082	9	Liquid	Large Tanker	Main St. & Decker St.	N	08/07/2012	18:14

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.  
Solids & Granular materials can be in Any Packaging.

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## DOT HIGHWAY HAZMAT DATA TABLE

CITY: VIROQUA

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
2187	2	CO <sub>2</sub>	Large Tanker	Main St. & Decker St.	S	08/08/2012	06:00
2187	2	CO <sub>2</sub>	Large Tanker	Main St. & Decker St.	S	08/08/2012	07:27
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	N	08/08/2012	07:53
1993	3	Flammable Liquid	Multi-Grade Tanker	Main St. & Decker St.	N	08/08/2012	08:22
1075	2	Propane	Small Delivery	Main St. & Decker St.	W	08/08/2012	08:30
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	N	08/08/2012	08:45
Corrosive	8	General	53' Van	Main St. & Decker St.	S	08/08/2012	08:53
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	S	08/08/2012	09:03
1075	2	Propane	Tank Setter	Main St. & Decker St.	N	08/08/2012	09:24
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	S	08/08/2012	09:31
1075	2	Propane	Large Tanker	Main St. & Decker St.	N	08/08/2012	09:35
3257	9	Hot Liquid	Large Tanker	Main St. & Decker St.	N	08/08/2012	09:52
1999	3	Hot Liquid	Large Tanker	Main St. & Decker St.	S	08/08/2012	10:09
1075	2	Propane	Large Tanker	Main St. & Decker St.	S	08/08/2012	10:52
3082	9	Liquid	Large Tanker	Main St. & Decker St.	S	08/08/2012	10:52
1824, 3266	8	Liquid	Large Tanker	Main St. & Decker St.	S	08/08/2012	10:53
2187	2	CO <sub>2</sub>	Large Tanker	Main St. & Decker St.	N	08/08/2012	11:02
Corrosive	8	General	53' Van	Main St. & Decker St.	S	08/08/2012	12:19
Oxygen	2	Oxygen	Medical Supply Van	Main St. & Decker St.	W	08/08/2012	13:04
1075	2	Propane	Small Delivery	Main St. & Decker St.	W	08/08/2012	13:52

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.

Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.



## DOT HIGHWAY HAZMAT DATA TABLE

CITY: VIROQUA

Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
1203	3	Gasoline	Small Delivery	Main St. & Decker St.	N	08/08/2012	14:20
1999	3	Hot Liquid	Large Tanker	Main St. & Decker St.	N	08/08/2012	14:21
1993	3	General	53' Van	Main St. & Decker St.	N	08/08/2012	14:27
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	E	08/08/2012	15:27
1977		Liquid Nitrogen	Pickup	Main St. & Decker St.	N	08/08/2012	15:40
1203	3	Gasoline	Small Delivery	Main St. & Decker St.	E	08/08/2012	16:15
1977		Liquid Nitrogen	Pickup	Main St. & Decker St.	N	08/08/2012	16:18
1075	2	Propane	Small Delivery	Main St. & Decker St.	N	08/08/2012	16:59
1203	3	Gasoline	Multi-Grade Tanker	Main St. & Decker St.	N	08/08/2012	17:59

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)

Small Delivery [Gasoline] = 3,000 Gallons

Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)

Large Tanker = 9,100 Gallons

On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.  
Solids & Granular materials can be in Any Packaging.

**NOTE:** Trucks that were "Circulating", were NOT counted after the second time they were seen.

## Interstate Highway Benchmark Data

## DOT HIGHWAY HAZMAT DATA TABLE

**CITY: I-39/90/94 Exit 131 Windsor, through Milwaukee, north to I-43 Exit 113, Cedar Grove**

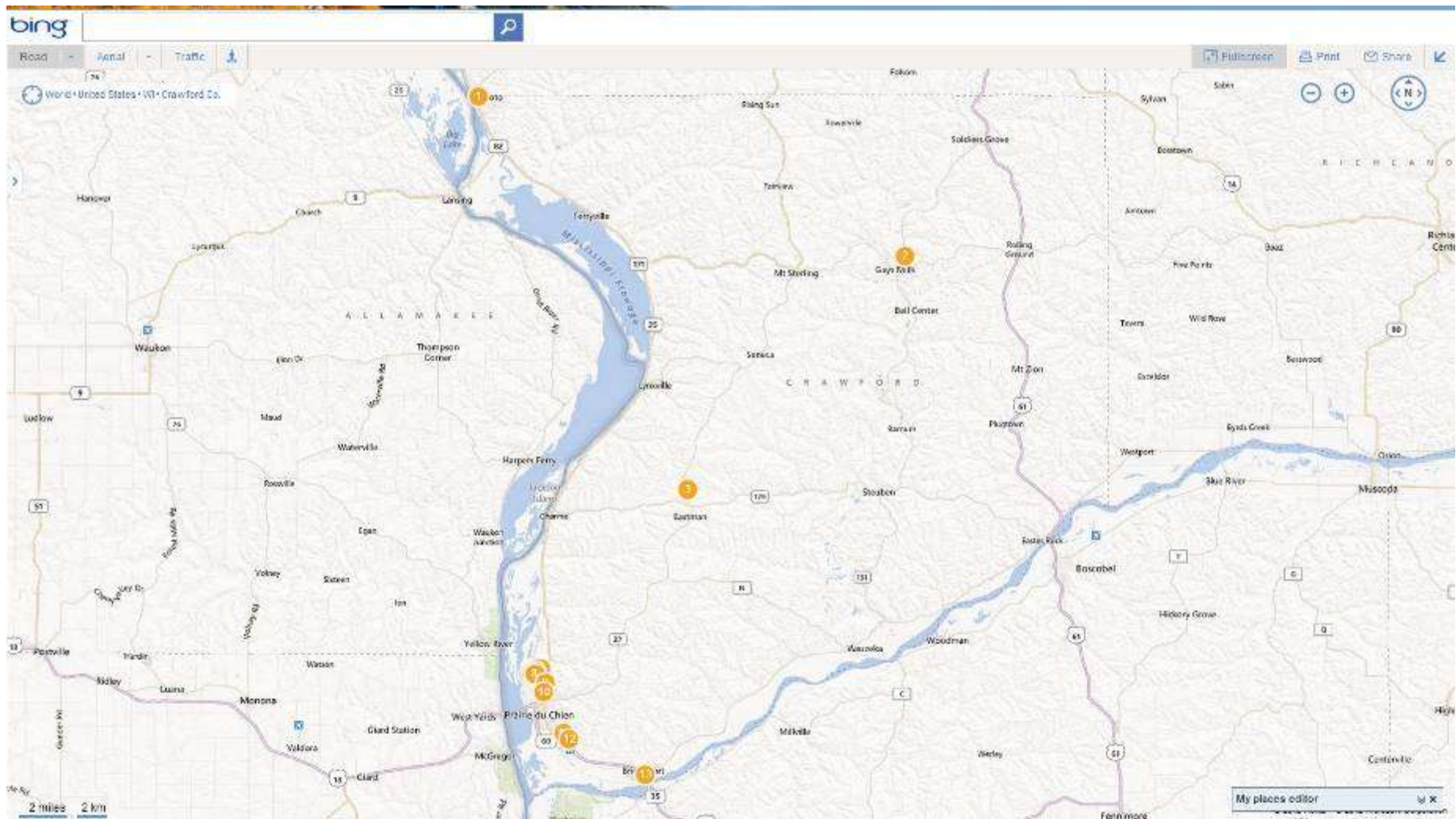
Placard #	Class	Material or Category	Truck Type	Point Location	Direction of Travel	Date	Time
2693	8	Corrosive	Large Tanker	North of Madison	S	07/26/2012	18:30
1975?	3	Flammable Liquids		North of Madison	S	07/26/2012	18:33
1977		Liquid Nitrogen	Large Tanker	East of Madison	E	07/26/2012	18:45
[Multiple]	2	Welding Gases	AirGas Supply	East of Madison	E	07/26/2012	18:47
1993, 1203, ??	3	Flammable Liquids	Multi-Grade Tanker	East of Madison	E	07/26/2012	18:53
Non-Flam Gas	2	Welding Gases	Van	East of Madison	E	07/26/2012	18:59
Water Reactive, Flammable Solid, Dangerous	4	Mixed General	53' Van	Near Milwaukee	E	07/26/2012	19:29
Water Reactive	4	General	53' Van	Near Milwaukee	E	07/26/2012	19:33
Corrosive	8	General	53' Van	North of Milwaukee	N	07/26/2012	20:11
1824	8	Caustic Soda	Large Tanker	Port Washington	N	07/26/2012	20:33
Flammable	3	General	53' Van	Cedar Grove	N	07/26/2012	20:45
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3077	9	General	53' Van	Saukville	S	07/27/2012	14:00
Corrosive, Dangerous	8	Mixed General	53' Van	Mequon	S	07/27/2012	14:12
1230	3	Flammable Liquids	Large Tanker	Milwaukee	S	07/27/2012	14:28

Small Delivery [Propane] = 3,200 Gallons (Water Capacity)  
 Small Delivery [Gasoline] = 3,000 Gallons  
 Multi-Grade Tanker = 9,500 Gallons (Gallons Marked on Top for each Cell)  
 Large Tanker = 9,100 Gallons

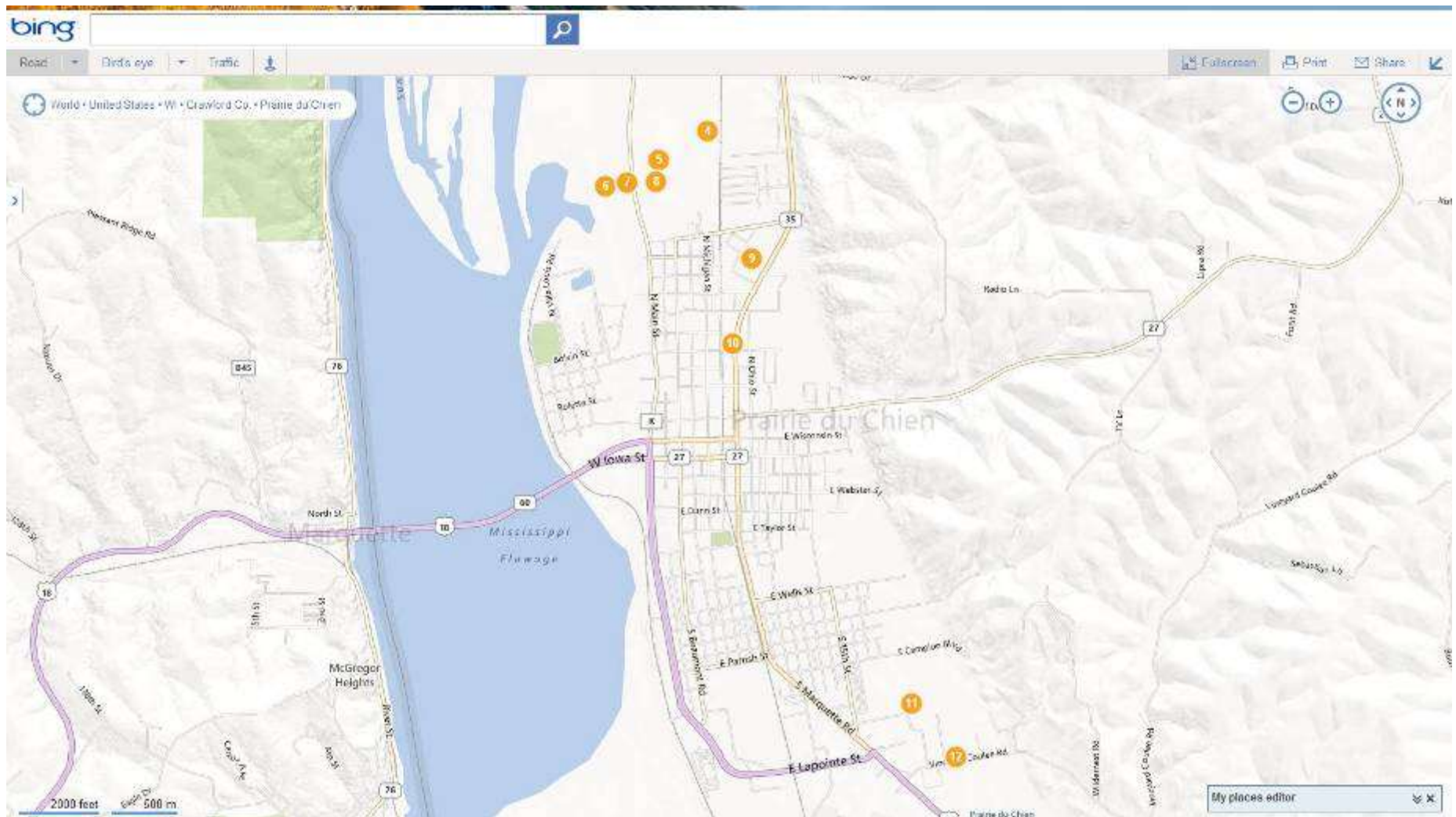
On-Board 53' Vans: 30 to 55 Gallon drums (poly or steel); Shrink wrapped pallets of 5 to 8 Gallon jugs, 32 to a pallet; 330 Gallon totes.  
 Solids & Granular materials can be in Any Packaging.

**NOTE:** THIS "ROAD RUN" IS INTENDED TO BE A BENCHMARK STUDY TO COMPARE URBAN INTERSTATE WITH RURAL STATE ROADS. ALL LANES WERE OBSERVED IN BOTH DIRECTIONS.

## Crawford County Tier II Facilities Data







## TIER II PLANNING AND REPORTING FACILITY CHEMICAL INVENTORY DATA

CHEMICAL NAME	CAS NUMBER	MAX DAILY AMOUNT	AVG DAILY AMOUNT	FACILITY NAME	FACILITY CITY	FACILITY COUNTY	REPORT YEAR
DIESEL FUEL	N/A	63,000	30,000	JAMES RICHARDSON TRUCKING, INC	BOSCOBEL	CRAWFORD COUNTY	2012
SALT	N/A	30	-	TOWN OF MARIETTA	BOSCOBEL	CRAWFORD COUNTY	2011
SAND	N/A	58	-	TOWN OF MARIETTA	BOSCOBEL	CRAWFORD COUNTY	2011
SAND	N/A	-	-	TOWN OF CLAYTON	CLAYTON	CRAWFORD COUNTY	2011
SODIUM CHLORIDE	N/A	100,000	-	TOWN OF CLAYTON	CLAYTON	CRAWFORD COUNTY	2011
PROPANE	74986	106,335	60,000	NEW HORIZONS - DE SOTO LP PLANT	DE SOTO	CRAWFORD COUNTY	2012
DIESEL FUEL	68334305	21,000	12,000	LOCK & DAM #9	EASTMAN	CRAWFORD COUNTY	2012
LUMAX	N/A	22,800	5,000	PREMIER CO-OP	EASTMAN	CRAWFORD COUNTY	2012
SALT OF GLYPHOSATE / DURANGO	34494047	10,000	4,000	PREMIER CO-OP	EASTMAN	CRAWFORD COUNTY	2012
SURESTART	N/A	10,000	4,000	PREMIER CO-OP	EASTMAN	CRAWFORD COUNTY	2012
ROAD SALT	7647145	1,700,000	4,657	GAYS MILLS HIGHWAY SHOP	GAYS MILLS	CRAWFORD COUNTY	2012
SAND	N/A	3,000,000	16,666	GAYS MILLS HIGHWAY SHOP	GAYS MILLS	CRAWFORD COUNTY	2012
ROAD SALT	7647145	1,942,000	5,320	MT. STERLING HIGHWAY SHOP	GAYS MILLS	CRAWFORD COUNTY	2012
SAND	N/A	460,600	2,559	MT. STERLING HIGHWAY SHOP	GAYS MILLS	CRAWFORD COUNTY	2012
DIESEL	68476302	43,800	26,000	NEW HORIZONS SUPPLY COOPERATIVE - GAYS MILLS FAC.	GAYS MILLS	CRAWFORD COUNTY	2012
GASOLINE	8006619	99,200	59,520	NEW HORIZONS SUPPLY COOPERATIVE - GAYS MILLS FAC.	GAYS MILLS	CRAWFORD COUNTY	2012
PROPANE	74986	112,077	67,000	NEW HORIZONS SUPPLY COOPERATIVE - GAYS MILLS FAC.	GAYS MILLS	CRAWFORD COUNTY	2012
ROAD SALT	7647145	600,000	1,445	LYNXVILLE COUNTY HIGHWAY SHOP	LYNXVILLE	CRAWFORD COUNTY	2012
SALT BRINE	7647145	9,000	250	LYNXVILLE COUNTY HIGHWAY SHOP	LYNXVILLE	CRAWFORD COUNTY	2012
SAND	N/A	680,000	3,778	LYNXVILLE COUNTY HIGHWAY SHOP	LYNXVILLE	CRAWFORD COUNTY	2012
AGGREGATES	14808607	100,000,000	100,000,000	Iverson Construction # 60	PRAIRE CU CHIEN	CRAWFORD COUNTY	2011
ASPHALT CEMENT	8052424	388,000	300,000	Iverson Construction # 60	PRAIRE CU CHIEN	CRAWFORD COUNTY	2011
DIESEL FUEL	68476346	63,000	60,000	Iverson Construction # 60	PRAIRE CU CHIEN	CRAWFORD COUNTY	2011
LIQUID PROPANE	74986	76,400	76,400	Iverson Construction # 60	PRAIRE CU CHIEN	CRAWFORD COUNTY	2011
REPROCESSED OIL	8002059	109,000	100,000	Iverson Construction # 60	PRAIRE CU CHIEN	CRAWFORD COUNTY	2011
#2 DIESEL FUEL	68476346	62,975	62,975	IVERSON CONSTRUCTION #4	PRAIRIE DE CHIEN	CRAWFORD COUNTY	2011
AGGREGATES	14808607	100,000,000	100,000,000	IVERSON CONSTRUCTION #4	PRAIRIE DE CHIEN	CRAWFORD COUNTY	2011
ASPHALT CEMENT	8052424	257,397	257,397	IVERSON CONSTRUCTION #4	PRAIRIE DE CHIEN	CRAWFORD COUNTY	2011
REPROCESSED OIL	8002059	108,707	108,707	IVERSON CONSTRUCTION #4	PRAIRIE DE CHIEN	CRAWFORD COUNTY	2011
AGGREGATES	14808607	100,000,000	100,000,000	AMERICAN ASPHALT #57	PRAIRIE DU CHEIN	CRAWFORD COUNTY	2011
ASPHALT CEMENT	8052424	688,000	600,000	AMERICAN ASPHALT #57	PRAIRIE DU CHEIN	CRAWFORD COUNTY	2011
DIESEL FUEL	68476346	49,000	40,000	AMERICAN ASPHALT #57	PRAIRIE DU CHEIN	CRAWFORD COUNTY	2011
REPROCESSED OIL	8002059	84,000	83,000	AMERICAN ASPHALT #57	PRAIRIE DU CHEIN	CRAWFORD COUNTY	2011
1,1'-METHYLENEBIS(4-ISOCYANATOBENZENE) HOMOPOLYMER	25686286	15,000	13,000	3M BUILDING 49	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
363 FC A300 MINERAL	N/A	11,774	2,023	3M BUILDING 49	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ALUMINUM OXIDE MINERAL	1344281	18,364	13,010	3M BUILDING 49	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SURFACTANT/SOAP BLEND	N/A	20,500	8,208	3M BUILDING 49	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M ALL PURPOSE CLEANER CONC	N/A	19,044	11,865	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND 3-IN-1 FLOOR CLEANER CONCENTRATE	N/A	29,423	18,913	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND ACID BOWL CLEANER	7647010	1,500	1,500	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND BATHROOM AND SHOWER CLEANER CO	7647010	28,729	18,126	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND BATHROOM CLEANER CONCENTRATE	N/A	52,427	30,238	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND CARPET EXTRACTION CLEANER	N/A	14,349	9,523	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND CORNERSTONE FLOOR SEALER/FINISH	N/A	37,161	17,866	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND CRÈME CLEANER	N/A	94,000	94,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND DEODORIZER CONCENTRATE (VARIOUS)	N/A	11,904	8,904	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND FLOOR STRIPPER	N/A	38,792	17,238	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND FLOORSTRIPPER LO	N/A	23,168	13,975	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND GENERAL PURPOSE CLEANER CONCENT	N/A	33,120	22,253	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND GLASS CLEANER CONCENTRATE	N/A	46,644	30,471	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012



<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>MAX DAILY AMOUNT</u>	<u>AVG DAILY AMOUNT</u>	<u>FACILITY NAME</u>	<u>FACILITY CITY</u>	<u>FACILITY COUNTY</u>	<u>REPORT YEAR</u>
3M BRAND HB QUAT DISINFECTANT CLEANER CONCENTRATE	N/A	66,322	46,130	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND HEAVY DUTY ACID BOWL CLEANER	7647010	17,112	7,276	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND HEAVY DUTY MULI SURFACE REMOVER	N/A	29,138	17,470	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND LIQUID SPRAY BUFF	N/A	14,668	7,275	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND NEUTRAL CLEANER CONCENTRATE	N/A	55,000	55,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND NEUTRAL FLOOR CLEANER	N/A	40,000	40,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND NEUTRAL QUAT DISINFECTANT CLEANER	N/A	65,231	32,094	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND QUAT DISINFECTANT CLEANER CONCENTRATE	N/A	63,541	38,623	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND SHARPSHOOTER X-STRENGTH CLEANER	N/A	16,946	10,640	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND SPEED STRIPPER CONCENTRATE	N/A	34,208	11,098	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND STAINLESS STEEL CLEANER AEROSOL	N/A	35,000	35,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND STAINLESS STEEL CLEANER LIQUID	N/A	40,000	40,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND TILE GROUT AND BOWL CLEANER CON	7647010	16,992	9,353	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND TOPLINE FLOOR COATING	7647010	33,655	16,674	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M NEUTRAL CLEANER LO CONC	N/A	70,000	70,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M QUAT DISINFECTANT READY-TO-USE CLEANER	N/A	106,000	106,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M STANCE 38 LOW MAINTENANCE FLOOR FINISH	N/A	40,000	40,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
A+ ADHESIVE FOR COMM. FLOOR WIPES	N/A	37,000	37,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ACRYLIC COPOLYMER	7664417	10,000	10,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ADHESIVE	N/A	16,524	16,524	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ALUMINUM OXIDE MINERAL	1344281	60,000	60,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
AROMATIC AMINE	19900653	25,000	25,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
BROWN 6050/8100/8150 REPELLETIZED PVC	N/A	18,000	18,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
FIBERGLASS	N/A	31,000	31,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ISOPROPYL ALCOHOL	67630	38,000	38,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
LEAD (INDUSTRIAL BATTERIES)	7439921	95,260	95,260	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
MELAMINE-FORMALDEHYDE RESIN	50000	37,000	37,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
NO. 2 FUEL OIL	68476302	149,247	100,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PHENOL-FORMALDEHYDE RESINS (WATER & SOL	50000	92,671	56,812	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PHENOL-FORMALDEHYDE RESINS (WATER AND SOLV	108952	137,000	137,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PLASTISOL NEUTRAL M3	N/A	140,000	140,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
POLYESTER FIBER	25038599	82,661	82,661	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
POLYESTER RESIN FEEDSTOCK	N/A	12,000	12,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
POLYESTER RESIN LIQUID	N/A	11,084	4,598	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
POLYURETHANE RESIN (VARIOUS TYPES)	584849	1,114	1,114	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PROPYLENE GLYCOL MONOMETHYL ETHER	107982	57,542	35,997	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PROYLENE GLYCOL MONOMETHYL ETHER ACETATE	108656	80,330	51,451	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ROVENE	50000	95,000	50,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ROVENE	7664417	95,000	50,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
RUBBER POLYURTHEANE WITH PM ACETATE	108656	30,189	18,473	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SCOTCH-BRITE™ QUICK CLEAN GRIDDLE LIQUID	N/A	145,166	123,584	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SCOTCHGARD FINISH	N/A	40,000	40,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SCOTCHGARD LOW MAINTENANCE 25 FLOOR FINISH	N/A	80,000	80,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SCOTCHGARD SPOT REMOVER + UPHOLSTERY CLEANER	7664417	8,369	2,646	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SCOTCHGUARD SPRAY CLEANER CONCENTRATE	N/A	14,855	7,739	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SILICON CARBIDE MINERAL	409212	105,418	60,285	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SODIUM LAURYL SULFATE	50000	3,680	2,187	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
STYRENE BUTADIENE RESIN	N/A	199,941	73,147	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SULFURIC ACID	7664939	10,811	10,811	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
TOPLINE 25 UHS FLOOR COATING	N/A	140,000	140,000	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
VARIOUS COATING MIXES CONTAINING PHENOL AND FORMALDE	108952	18,014	18,014	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
VARIOUS COATING MIXES CONTAINING PHENOL AND FORMALDE	50000	20,705	20,705	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
VARIOUS COATING MIXES CONTAINING VINYL ACETATE	108054	35,243	35,243	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012

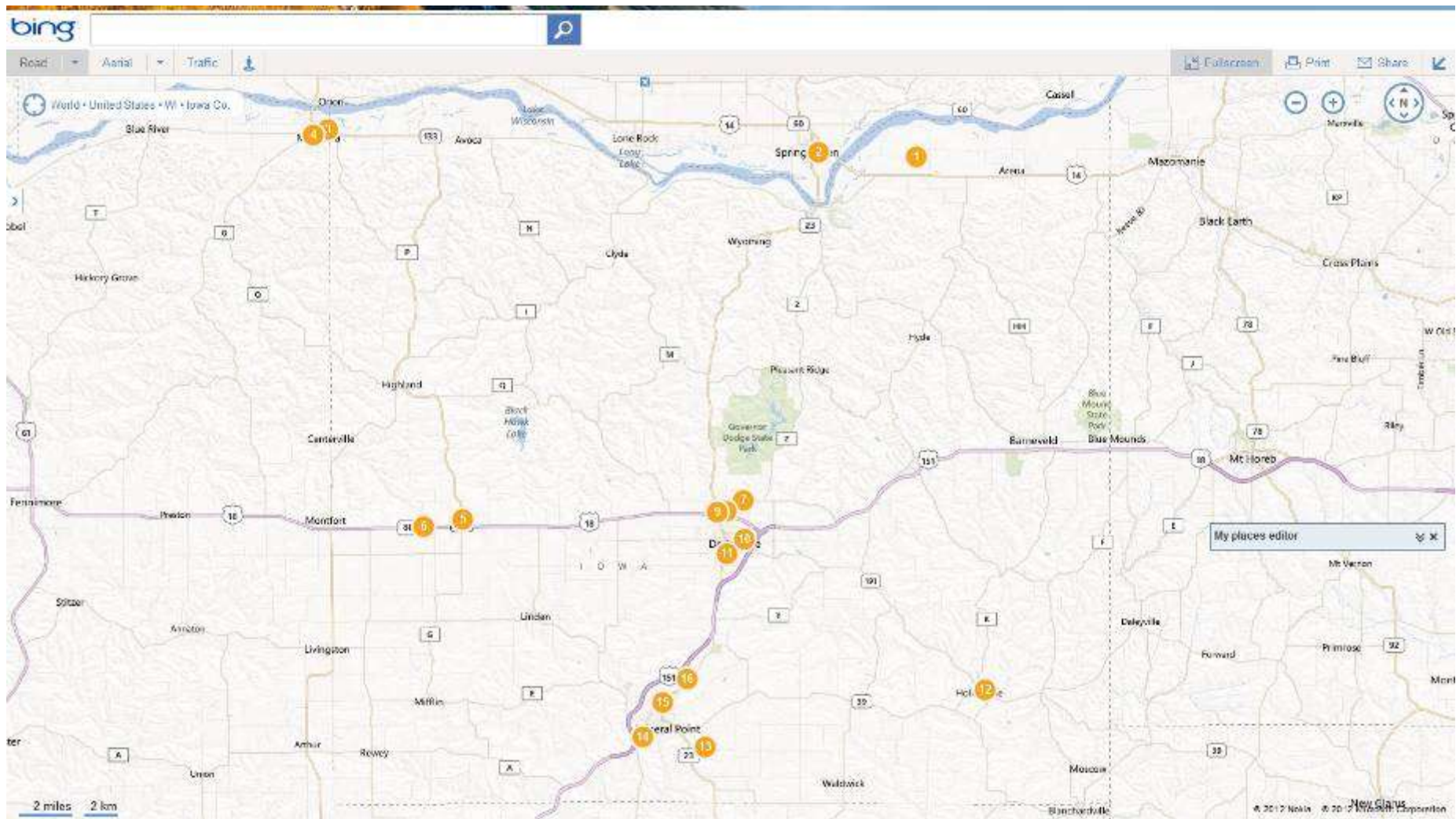
CHEMICAL NAME	CAS NUMBER	MAX DAILY AMOUNT	AVG DAILY AMOUNT	FACILITY NAME	FACILITY CITY	FACILITY COUNTY	REPORT YEAR
VARIOUS RECLAIM COATING MIXES	N/A	83,419	83,419	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
XYLENE TEN DEGREE	100414	83,419	83,419	3M BUILDING 50	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
363 FC A300 MINERAL	N/A	22,763	8,349	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND ACID BOWL CLEANER	7647010	7,656	5,806	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND CREME CLEANER	N/A	34,650	30,013	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND HEAVY DUTY ACID BOWL CLEANER	7647010	18,414	9,028	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND NEUTRAL QUAT DISINFECTANT CLEANER	N/A	22,912	22,912	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M BRAND QUAT DISINFECTANT CLEANER CONCENTRATE	N/A	73,728	17,335	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BARRIER 1000 NS SILICONE SEALANT	N/A	53,137	42,770	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BARRIER CP	N/A	227,350	151,615	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BARRIER MORTAR	N/A	67,320	30,792	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BARRIER MP	N/A	42,860	25,732	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BARRIER MPP	N/A	21,244	14,351	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BARRIER SEALANT IC 15 WB	N/A	177,922	105,601	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIRE BLOCK SEALANT FB	N/A	13,314	7,877	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M FIREDAM 150	N/A	199,596	144,204	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M TM FIRE BARRIER WATERTIGHT SEALANT	N/A	59,556	33,095	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
3M TM TB QUAT DISINFECTANT READY-TO-USE CLEANER	N/A	236,724	111,262	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PLASTISOL BACKING MIX M3335A (8150,5270,3270)	3317653	25,000	22,000	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
POLYESTER FIBER	25038599	49,623	25,484	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SULFURIC ACID	7664939	515	515	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SURFACTANT/SOAP BLEND	N/A	78,000	34,833	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
TRIZACT MINERAL	N/A	18,678	8,634	3M FRENCHTOWN WAREHOUSE	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
LEAD	7439921	197,400	197,400	CABELA'S	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SULFURIC ACID	7664939	23,030	23,030	CABELA'S	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SULFURIC ACID	7664939	1,145	1,145	CENTURYLINK - PRAIRIE DU CHIEN CO	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
LIQUID OXYGEN	7782447	14,000	8,000	DILLMAN EQUIPMENT: A DIVISION OF ASTEC, INC	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
GASOLINE	8006619	-	-	KWIK TRIP #307	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2011
DIESEL FUEL	68476346	-	-	KWIK TRIP #842	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #842	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2011
SULFURIC ACID	7664939	655	655	MINIATURE PRECISION COMPONENTS, INC	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PROPANE	74986	131,855	79,100	NEW HORIZONS SUPPLY COOPERATIVE-BRIDGEPORT BRANCH	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
AMMONIUM NITRATE	6484522	14,400,000	7,200,000	PRAIRIE DE CHIEN TERMINAL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
UREA	57136	11,400,000	5,700,000	PRAIRIE DE CHIEN TERMINAL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
#2 FUEL OIL	N/A	-	-	PRAIRIE DU CHIEN CORRECTIONAL INSTITUTION	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2011
DIESEL FUEL	8008206	13,994	38	PRAIRIE DU CHIEN COUNTY HIGHWAY SHOP	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ROAD SALT	7647145	736,140	2,016	PRAIRIE DU CHIEN COUNTY HIGHWAY SHOP	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SAND	N/A	3,158,400	8,653	PRAIRIE DU CHIEN COUNTY HIGHWAY SHOP	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
UNLEADED GASOLINE	8006619	11,995	33	PRAIRIE DU CHIEN COUNTY HIGHWAY SHOP	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
FUEL, AVIATION, TURBINE ENGINE	N/A	60,000	60,000	PRAIRIE DU CHIEN MUNICIPAL AIRPORT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
GASOLINE	8006619	37,500	37,500	PRAIRIE DU CHIEN MUNICIPAL AIRPORT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PROPANE	74986	241,680	241,680	PRAIRIE DU CHIEN PROPANE PLANT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
#2 FUEL OIL	N/A	5,505	5,505	PRAIRIE DU CHIEN SCHOOL DISTRICT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
DIESEL FUEL	68476346	44,250	44,250	PRAIRIE DU CHIEN STREET DEPARTMENT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SAND	N/A	40,000	40,000	PRAIRIE DU CHIEN STREET DEPARTMENT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SODIUM CHLORIDE	N/A	500,000	500,000	PRAIRIE DU CHIEN STREET DEPARTMENT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
UNLEADED GASOLINE	8006619	36,875	36,875	PRAIRIE DU CHIEN STREET DEPARTMENT	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
PROPANE	74986	152,640	152,640	PRAIRIE DU CHIEN TRU-GAS	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
AMMONIUM NITRATE-UREA SOLUTION	6484522	32,487,000	16,000,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
AMMONIUM SULFATE	7783202	25,000,000	650,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
DIAMMONIUM PHOSPHATE	7783280	55,000,000	20,000,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
DIESEL FUEL	68334305	144,000	100,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
GRAVEL	N/A	6,000,000	650,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012



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MONO AMMONIUM PHOSPHATE	7722761	18,000,000	9,000,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
POTASH	7447407	30,000,000	9,000,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SAND	N/A	2,000,000	750,000	PRAIRIE SAND & GRAVEL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ROCK SALT	7647145	164,000,000	85,000,000	RIVERSIDE COAL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
UREA	57136	60,000,000	10,000,000	RIVERSIDE COAL	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
SURLYN 9520 RESIN AND SURLYN 8920 RESIN	N/A	75,000	40,000	UFP Ventures II, Inc.	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
TALC	14807966	100,000	80,000	UFP Ventures II, Inc.	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
TWO STAGE PHENOLIC RESIN	9003354	45,000	25,000	UFP Ventures II, Inc.	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
WOOD FLOUR	N/A	300,000	150,000	UFP Ventures II, Inc.	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
DIESEL FUEL	68334305	71,800	28,720	WASTE MANAGEMENT OF PRAIRIE DU CHIEN	PRAIRIE DU CHIEN	CRAWFORD COUNTY	2012
ASPHALT CEMENT	8052424	2,880	8	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
ASPHALT RUBBER PLUS	8052424	87,609	24	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
COAL SLAG	N/A	344,000	942	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
DIESEL FUEL	8008206	56,227	154	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
GASOLINE	8006619	6,000	16	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
RECYCLED BLACKTOP	N/A	6,582,000	337,570	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
ROAD SALT	7647145	4,800,000	13,150	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
SALT BRINE	N/A	99,627	273	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
SAND	N/A	2,419,200	6,628	SENECA HIGHWAY SHOP	SENECA	CRAWFORD COUNTY	2012
ROAD SALT	N/A	20,000	-	TOWN OF SENECA	SENECA	CRAWFORD COUNTY	2011
SAND	N/A	-	-	TOWN OF SENECA	SENECA	CRAWFORD COUNTY	2011
ROAD SALT	7647145	192,000	526	SOLDIERS GROVE HIGHWAY SHOP	SOLDIERS GROVE	CRAWFORD COUNTY	2012
SALT BRINE	7647145	45,000	123	SOLDIERS GROVE HIGHWAY SHOP	SOLDIERS GROVE	CRAWFORD COUNTY	2012
SAND	N/A	1,498,000	4,104	SOLDIERS GROVE HIGHWAY SHOP	SOLDIERS GROVE	CRAWFORD COUNTY	2012
ROAD SALT	7647145	240,000	657	STEBEN HIGHWAY SHOP	TOWN OF EASTMAN	CRAWFORD COUNTY	2012
SAND	N/A	2,604,000	7,134	STEBEN HIGHWAY SHOP	TOWN OF EASTMAN	CRAWFORD COUNTY	2012
ROAD SALT	7647145	204,820	561	WAUZEKA HIGHWAY SHOP	WAUZEKA	CRAWFORD COUNTY	2012
SALT BRINE	7647145	9,000	24	WAUZEKA HIGHWAY SHOP	WAUZEKA	CRAWFORD COUNTY	2012
SAND	N/A	2,419,200	6,627	WAUZEKA HIGHWAY SHOP	WAUZEKA	CRAWFORD COUNTY	2012



## Iowa County Tier II Facilities Data



## TIER II PLANNING AND REPORTING FACILITY CHEMICAL INVENTORY DATA

CHEMICAL NAME	CAS NUMBER	MAX DAILY AMOUNT	AVG DAILY AMOUNT	FACILITY NAME	FACILITY CITY	FACILITY COUNTY	REPORT YEAR
AMMONIUM POLYPHOSPHATE	68333799	9,120,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
AMMONIUM THIOSULFATE	7783188	534,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
ANHYDROUS AMMONIA	7664417	115,480	10	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
BORON 10% SOLUTION	183290633	100,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
CALCIUM NITRATE (AKA CN-9)	10124375	2,778,000	20,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
MAGNESIUM CHLORIDE	7786303	336,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
PHOSPHORIC ACID	8017161	200,000	10	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
POTASSIUM CHLORIDE (AKA POTASH)	7447407	856,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
POTASSIUM THIOSULFATE (AKA KTS)	10294663	1,984,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
PROPANE	74986	13,568	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
UREA (AKA 46-0-0)	57136	200,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
UREA AMMONIUM NITRATE SOLUTIONS (AKA 28% OR 32% UAN)	57136	22,506,000	100,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
ZINC 15% SOLUTION	14025219	174,000	10,000	THE ANDERSONS ARENA TERMINAL	ARENA	IOWA COUNTY	2012
#1 DIESEL	64742810	11,829	9,181	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2011
#1 DIESEL	64742810	6,304	4,862	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2012
#2 DIESEL	64742809	56,977	18,701	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2011
#2 DIESEL	64742809	70,201	39,317	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2011
#2 DIESEL	64742809	21,757	11,953	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2011
#2 DIESEL	64742809	51,825	9,929	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2012
#2 DIESEL	64742809	73,301	40,552	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2012
#2 DIESEL	64742809	18,766	11,208	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2012
GASOLINE WITH ETHANOL	8006619	15,943	8,726	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2011
GASOLINE WITH ETHANOL	8006619	5,332	3,599	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2011
GASOLINE WITH ETHANOL	8006619	15,327	8,871	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2012
GASOLINE WITH ETHANOL	8006619	6,033	3,358	BARNEVELD BULK PLANT ID #194855	BARNEVELD	IOWA COUNTY	2012
PROPANE ALIPHATIC HYDROCARBON	74986	192,000	96,000	CHARTER FUELS, INC	COBB	IOWA COUNTY	2012
#1 FUEL OIL (HS DYED - LS CLEAR)	8008206	228,319	140,000	Frontier FS a Division of Growmark, Inc	COBB	IOWA COUNTY	2012
ANHYDROUS AMMONIA	7664417	245,808	150,000	Frontier FS a Division of Growmark, Inc	COBB	IOWA COUNTY	2012
DIESEL FUEL NO. 2	68476302	339,054	170,000	Frontier FS a Division of Growmark, Inc	COBB	IOWA COUNTY	2012
PROPANE/LP GAS	74986	57,916	32,000	Frontier FS a Division of Growmark, Inc	COBB	IOWA COUNTY	2012
UNLEADED GASOLINE	8006619	75,988	45,000	Frontier FS a Division of Growmark, Inc	COBB	IOWA COUNTY	2012
PROPANE	74986	105,771	105,771	Amerigas Propane LP	DODGEVILLE	IOWA COUNTY	2011
PROPANE	74986	105,771	105,771	AMERIGAS PROPANE LP	DODGEVILLE	IOWA COUNTY	2012
# 2 DIESEL FUEL	N/A	90,000	50,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
ADMIXTURE/GLENIUM 7500	N/A	10,000	6,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
CALCIUM CHLORIDE	10043524	10,000	6,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
COAL FLY ASH	12168853	160,000	80,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
CONCRETE ROCK-LIMESTONE	N/A	8,000,000	5,000,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
ENGINE/HYDRAULIC OILS	N/A	10,000	6,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
PORTLAND CEMENT	N/A	200,000	100,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
POZZUTEC 20/CALCIUM CHLORIDE	13477344	10,000	6,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
SAND	N/A	8,000,000	5,000,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
SODIUM NITRATE	7631994	10,000	6,000	Bard Materials Dodgeville	DODGEVILLE	IOWA COUNTY	2011
BALE CHAMP 68 - PROPIONIC ACID	79094	49,022	29,000	DODGEVILLE AGRI-SERVICE, INC.	DODGEVILLE	IOWA COUNTY	2012
GLYPHOSATE	38641940	12,688	7,500	DODGEVILLE AGRI-SERVICE, INC.	DODGEVILLE	IOWA COUNTY	2012
LEAD ACID BATTERIES	7664939	2,590	2,590	FRONTIER COMMUNICATIONS-DODGEVILLE	DODGEVILLE	IOWA COUNTY	2012
CALCIUM CHLORIDE USOL-KLAKES	N/A	22,250	18,200	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012

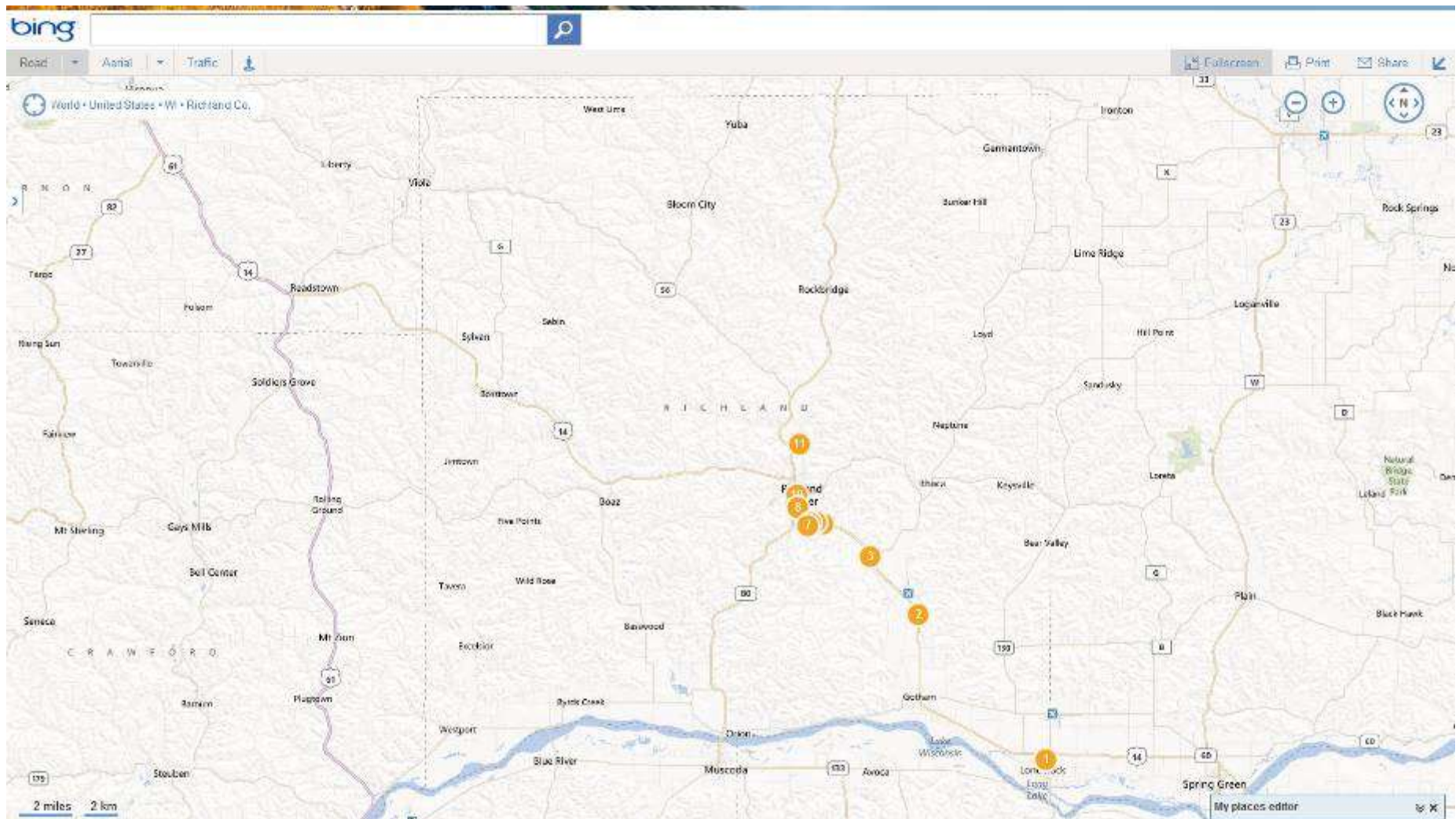


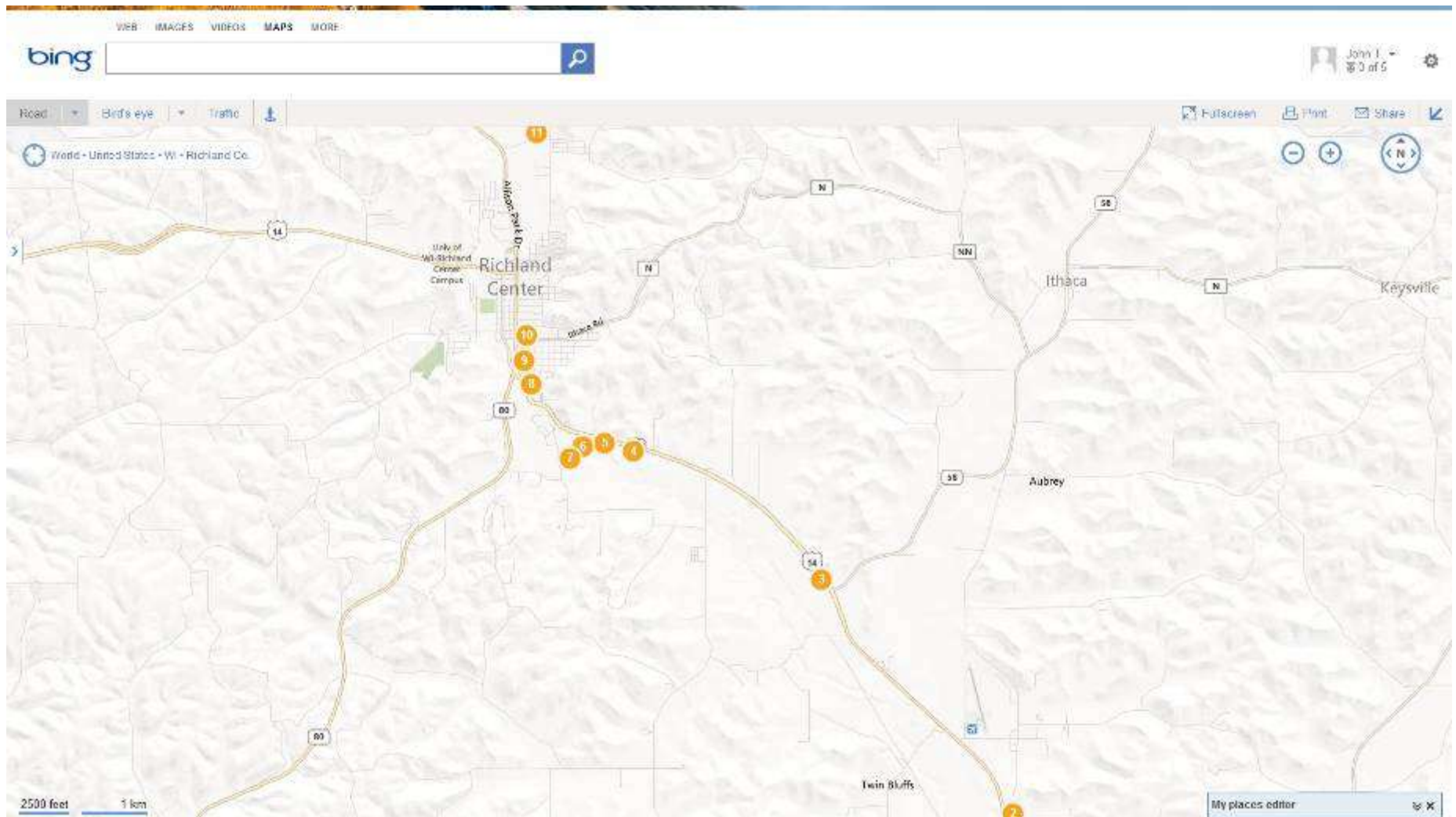
<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>MAX DAILY AMOUNT</u>	<u>AVG DAILY AMOUNT</u>	<u>FACILITY NAME</u>	<u>FACILITY CITY</u>	<u>FACILITY COUNTY</u>	<u>REPORT YEAR</u>
CRAFCO CRACK FILLER ASPHALT RUBBER CEMENT	N/A	57,600	53,000	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
FUEL OIL	N/A	112,000	56,400	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
GLASS BEADS	N/A	54,000	15,000	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
HOT LINE TRAFFIC PAINT	N/A	960,300	260,000	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
ICE SLICER RS	N/A	686,000	650,000	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
SODIUM CHLORIDE	7647145	10,340,000	5,092,000	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
SODIUM CHLORIDE (ROAD SALT)	7647145	3,800,000	3,612,000	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
UNLEADED GASOLINE	N/A	112,000	56,400	IOWA COUNTY HIGHWAY DEPARTMENT	DODGEVILLE	IOWA COUNTY	2012
#2 HIGH SULFUR FUEL OIL	N/A	112,000	64,000	IOWA COUNTY HOT MIX PLANT	DODGEVILLE	IOWA COUNTY	2012
MC 250 ASPHALT-HIGH-MEDIUM CUTBACK	N/A	50,500	45,000	IOWA COUNTY HOT MIX PLANT	DODGEVILLE	IOWA COUNTY	2012
MC 500 ASPHALT-SLOW-MEDIUM CUTBACK CURING	N/A	50,500	45,000	IOWA COUNTY HOT MIX PLANT	DODGEVILLE	IOWA COUNTY	2012
PG 58-28 ASPHALT CEMENT - PETROLEUM ASPHALT	N/A	200,000	100,000	IOWA COUNTY HOT MIX PLANT	DODGEVILLE	IOWA COUNTY	2012
PG 64-22 ASPHALT CEMENT	N/A	200,000	100,000	IOWA COUNTY HOT MIX PLANT	DODGEVILLE	IOWA COUNTY	2012
DIESEL FUEL	68476346	-	-	KWIK TRIP #765	DODGEVILLE	IOWA COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #765	DODGEVILLE	IOWA COUNTY	2011
PROPANE	74986	235,200	141,200	NEW HORIZONS SUPPLY COOPERATIVE	DODGEVILLE	IOWA COUNTY	2012
DIESEL #2	68476346	93,000	93,000	UNITED PARCEL SERVICE	DODGEVILLE	IOWA COUNTY	2012
OXYGEN	7782447	14,292	10,000	UPLAND HILLS HEALTH	DODGEVILLE	IOWA COUNTY	2012
ADMIXTURES	N/A	10,000	1	Bard Materials Highland	HIGHLAND	IOWA COUNTY	2011
COAL FLY ASH	12168853	50,000	1	Bard Materials Highland	HIGHLAND	IOWA COUNTY	2011
CONCRETE STONE-LIMESTONE	N/A	1,000,000	1	Bard Materials Highland	HIGHLAND	IOWA COUNTY	2011
PORTLAND CEMENT	N/A	100,000	1	Bard Materials Highland	HIGHLAND	IOWA COUNTY	2011
SAND	N/A	1,000,000	1	Bard Materials Highland	HIGHLAND	IOWA COUNTY	2011
SULFUR	7704349	6,500	5,000	B-L AGRI SERVICE, INC.	HIGHLAND	IOWA COUNTY	2012
SODIUM CHLORIDE (ROAD SALT)	7647145	960,000	300,000	IOWA COUNTY HIGHLAND SHOP	HIGHLAND	IOWA COUNTY	2012
HOME-HEATING OIL	68476302	135,850	65,000	BLANCHARDVILLE CO-OP OIL ASSOCIATION	HOLLANDALE	IOWA COUNTY	2012
LIGHT PETROL NO-LEAD	8006619	127,270	65,000	BLANCHARDVILLE CO-OP OIL ASSOCIATION	HOLLANDALE	IOWA COUNTY	2012
PETROLEUM DISTILLATE #1 & #2 DIESEL FUEL	8008206	85,800	50,000	BLANCHARDVILLE CO-OP OIL ASSOCIATION	HOLLANDALE	IOWA COUNTY	2012
SODIUM CHLORIDE	7647145	500,000	240,000	IOWA COUNTY HOLLANDALE SHOP	HOLLANDALE	IOWA COUNTY	2012
FUEL OIL #2	64741442	1,127	-	PECATONICA ELEMENTARY	HOLLANDALE	IOWA COUNTY	2011
SODIUM CHLORIDE	7647145	444,000	390,000	IOWA COUNTY MIFFLIN SHOP	MIFFLIN	IOWA COUNTY	2012
NITROGEN	7727379	10,500	5,000	BADGER WELDING SUPPLIES, INC.	MINERAL POINT	IOWA COUNTY	2012
ARGON (AR)	7440371	70,313	45,000	CUMMINS EMISSION SOLUTIONS - MINERAL POINT	MINERAL POINT	IOWA COUNTY	2012
SULFURIC ACID IN ELECTROLYTE SOLUTION	7664939	3,470	3,470	CUMMINS EMISSION SOLUTIONS - MINERAL POINT	MINERAL POINT	IOWA COUNTY	2012
CALCIUM CHLORIDE	N/A	14,994	7,497	IVEY CONSTRUCTION, INC.	MINERAL POINT	IOWA COUNTY	2012
CEMENT	65997151	60,000	30,000	IVEY CONSTRUCTION, INC.	MINERAL POINT	IOWA COUNTY	2012
NO. 2 FUEL OIL	N/A	18,326	9,000	IVEY CONSTRUCTION, INC.	MINERAL POINT	IOWA COUNTY	2012
SILICATE SAND	N/A	10,000	5,000	IVEY CONSTRUCTION, INC.	MINERAL POINT	IOWA COUNTY	2012
GASOLINE	8006619	-	-	KWIK TRIP #768	MINERAL POINT	IOWA COUNTY	2011
AMMONIA NITRATE BLASTING AGENT	6482522	80,000	-	NORTHLAND EXPLOSIVES	MINERAL POINT	IOWA COUNTY	2011
HIGH EXPLOSIVES	628966	15,000	-	NORTHLAND EXPLOSIVES	MINERAL POINT	IOWA COUNTY	2011
HIGH EXPLOSIVES	628966	15,000	-	NORTHLAND EXPLOSIVES	MINERAL POINT	IOWA COUNTY	2011
PROPANE	74986	128,000	64,000	PREMIER COOPERATIVE	MINERAL POINT	IOWA COUNTY	2012
ABUNDIT EXTRA	38641940	17,422	97	ROSS SOIL SERVICE LLC	MINERAL POINT	IOWA COUNTY	2012
FORCE 3G	79538322	5,000	28	ROSS SOIL SERVICE LLC	MINERAL POINT	IOWA COUNTY	2012
LUMAX	87392129	19,672	130	ROSS SOIL SERVICE LLC	MINERAL POINT	IOWA COUNTY	2012
TOUCHDOWN TOTAL	39600425	23,077	128	ROSS SOIL SERVICE LLC	MINERAL POINT	IOWA COUNTY	2012
SULFURIC ACID	7664939	800	2	MONTFORT WIND FARM	MONTFORT	IOWA COUNTY	2012
AGGREGATES	14808607	100,000,000	100,000,000	AMERICAN ASPHALT #76	RIDGEWAY	IOWA COUNTY	2011
ASPHALT CEMENT	8052424	625,000	600,000	AMERICAN ASPHALT #76	RIDGEWAY	IOWA COUNTY	2011

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>MAX DAILY AMOUNT</u>	<u>AVG DAILY AMOUNT</u>	<u>FACILITY NAME</u>	<u>FACILITY CITY</u>	<u>FACILITY COUNTY</u>	<u>REPORT YEAR</u>
DIESEL FUEL	68476346	62,000	60,000	AMERICAN ASPHALT #76	RIDGEWAY	IOWA COUNTY	2011
REPROCESSED OIL	8002059	109,000	100,000	AMERICAN ASPHALT #76	RIDGEWAY	IOWA COUNTY	2011
DIESEL FUEL	5936	2,000	750	TOWN OF WYOMING GARAGE	SPRING GREEN	IOWA COUNTY	2012
LP GAS (PROPANE)	N/A	2,000	800	TOWN OF WYOMING GARAGE	SPRING GREEN	IOWA COUNTY	2012
SANDING MATERIAL (5% SODIUM CHLORIDE)	N/A	125,000	50,000	TOWN OF WYOMING GARAGE	SPRING GREEN	IOWA COUNTY	2012



## Richland County Tier II Facilities Data







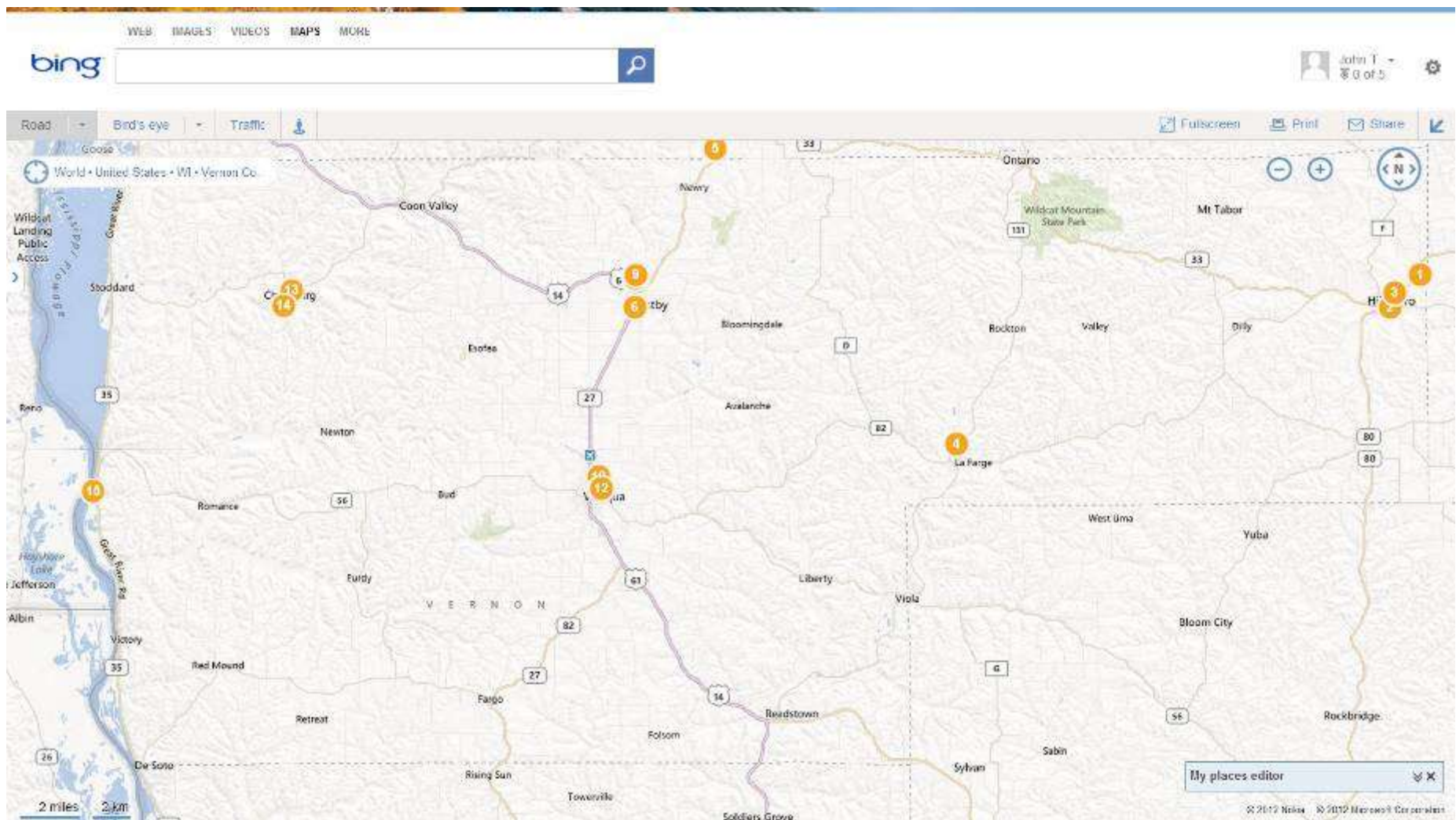
## TIER II PLANNING AND REPORTING FACILITY CHEMICAL INVENTORY DATA

CHEMICAL NAME	CAS NUMBER	MAX DAILY AMOUNT	AVG DAILY AMOUNT	FACILITY NAME	FACILITY CITY	FACILITY COUNTY	REPORT YEAR
SALT & SAND MIXTURE	N/A	85,000	-	AKAN GARAGE	BLUE RIVER	RICHLAND COUNTY	2011
SODIUM CHLORIDE (ROAD SALT)	N/A	400,000	20,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	CAZENOVIA	RICHLAND COUNTY	2012
DIESEL	N/A	7,000	3,500	WILLOW GARAGE	CAZENOVIA	RICHLAND COUNTY	2012
SODIUM CHLORIDE (ROAD SALT)	N/A	630,000	8,000	WILLOW GARAGE	CAZENOVIA	RICHLAND COUNTY	2012
LIQUID PROPANE	74986	101,760	61,860	FERRELLGAS L.P.	LONE ROCK	RICHLAND COUNTY	2012
PROPANE, LIQUID	74986	61,056	41,500	CROUCH FARM	MUSCODA	RICHLAND COUNTY	2012
ANHYDROUS AMMONIA	7664417	1,800	1,800	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
NITRIC ACID	7697372	578	286	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
PHOSPHORIC ACID	7664382	1,910	1,550	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
POTASSIUM HYDROXIDE	1310583	2,640	2,640	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYDROXIDE	1310732	5,367	5,367	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYPOCHLORITE	7681529	1,880	1,880	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	1,037	1,037	ALCAM CREAMERY CO., INC	RICHLAND CENTER	RICHLAND COUNTY	2012
LIQUID PROPANE	74986	101,760	61,860	FERRELLGAS L.P.	RICHLAND CENTER	RICHLAND COUNTY	2012
#2 FUEL OIL	68476346	71,500	71,500	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
ANHYDROUS AMMONIA	7664417	20,000	20,000	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
AQUA AMMONIA	1336216	23,000	11,500	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
LEAD	7439921	31,900	31,900	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
NITRIC ACID	7697372	24,500	18,000	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
PHOSPHORIC ACID	7664382	4,400	2,600	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
PROPANE	74986	102,000	102,000	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYDROXIDE	1310732	32,500	27,000	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYPOCHLORITE	7782505	3,000	2,050	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	18,500	12,500	FOREMOST FARMS USA COOP	RICHLAND CENTER	RICHLAND COUNTY	2012
LEAD ACID BATTERIES	7664939	996	996	FRONTIER COMMUNICATIONS	RICHLAND CENTER	RICHLAND COUNTY	2012
DIESEL	68476346	-	-	KWIK TRIP #363	RICHLAND CENTER	RICHLAND COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #363	RICHLAND CENTER	RICHLAND COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #788	RICHLAND CENTER	RICHLAND COUNTY	2011
NITROGEN	7727379	33,500	25,000	MINIATURE PRECISION COMPONENTS, INC	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	900	900	MINIATURE PRECISION COMPONENTS, INC	RICHLAND CENTER	RICHLAND COUNTY	2012
PROPANE	N/A	67,173	62,975	RELIABLE LP INC.	RICHLAND CENTER	RICHLAND COUNTY	2012
JP8-UNIVERSAL FUEL	8008206	16,816	12,675	RICHLAND CENTER ARMORY	RICHLAND CENTER	RICHLAND COUNTY	2012
CHROMIUM	7440473	14,039	8,549	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
FORMALDEHYDE	50000	491	306	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
FURFURYL ALCOHOL	98000	81,153	49,677	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
P. TOLUENESULFONIC ACID	104154	14,060	11,129	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
PHENOL	108952	1,281	801	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
PROPANE, LIQUIFIED	74986	81,662	80,407	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
SILICA-RESPIRABLE DUST)	14808607	14,285	5,654	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYDROXIDE	1310732	10,629	8,027	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFUR DIOXIDE	7446095	1,875	1,335	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	1,290	1,058	RICHLAND CENTER FOUNDRY	RICHLAND CENTER	RICHLAND COUNTY	2012
CHLORINE	7782505	-	-	RICHLAND CENTER MUNICIPAL SWIMMING POOL	RICHLAND CENTER	RICHLAND COUNTY	2011
CALCIUM CHLORIDE	N/A	20,000	500	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
DIESEL FUEL	N/A	16,000	11,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
MOTOR OILS	N/A	8,000	800	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
SAND & SALT MIX	N/A	20,000,000	12,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>MAX DAILY AMOUNT</u>	<u>AVG DAILY AMOUNT</u>	<u>FACILITY NAME</u>	<u>FACILITY CITY</u>	<u>FACILITY COUNTY</u>	<u>REPORT YEAR</u>
SAND (NON-HAZARDOUS)	N/A	20,000,000	12,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM CHLORIDE (ROAD SALT)	N/A	800,000	25,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM CHLORIDE (ROAD SALT)	N/A	10,000,000	2,000,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
UNLEADED GASOLINE	N/A	210,000	48,000	RICHLAND COUNTY HIGHWAY DEPARTMENT	RICHLAND CENTER	RICHLAND COUNTY	2012
PETROLEUM DISTILLATE	68476346	44,982	10,000	RICHLAND HOSPITAL, INCORPORATED, THE	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM CHLORIDE	7647145	10,000	10,000	RICHLAND HOSPITAL, INCORPORATED, THE	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	2,019	2,019	ROCKWELL AUTOMATION	RICHLAND CENTER	RICHLAND COUNTY	2012
AMMONIA (ANHYDROUS)	7664417	9,500	9,500	SCHREIBER FOODS INC.	RICHLAND CENTER	RICHLAND COUNTY	2012
LEAD	7439921	34,000	34,000	SCHREIBER FOODS INC.	RICHLAND CENTER	RICHLAND COUNTY	2012
NITRIC ACID	7697372	3,419	3,419	SCHREIBER FOODS INC.	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYDROXIDE	1310732	14,546	14,546	SCHREIBER FOODS INC.	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	14,960	14,960	SCHREIBER FOODS INC.	RICHLAND CENTER	RICHLAND COUNTY	2012
AMMONIA	7664417	23,631	23,631	Schreiber Foods, Inc	RICHLAND CENTER	RICHLAND COUNTY	2012
BURNER FUEL OIL	64742809	38,480	38,480	Schreiber Foods, Inc	RICHLAND CENTER	RICHLAND COUNTY	2012
LEAD	7439921	34,415	34,415	Schreiber Foods, Inc	RICHLAND CENTER	RICHLAND COUNTY	2012
NITRIC ACID	7697372	1,424	1,424	Schreiber Foods, Inc	RICHLAND CENTER	RICHLAND COUNTY	2012
SODIUM HYDROXIDE	1310732	14,222	14,222	Schreiber Foods, Inc	RICHLAND CENTER	RICHLAND COUNTY	2012
SULFURIC ACID	7664939	21,455	21,455	Schreiber Foods, Inc	RICHLAND CENTER	RICHLAND COUNTY	2012
PROPANE	74986	305,280	228,960	TRU-GAS	RICHLAND CENTER	RICHLAND COUNTY	2012
CHLORINE	7782505	300	300	WELL # 6	RICHLAND CENTER	RICHLAND COUNTY	2012
CHLORINE	7782505	300	300	WELL # 8	RICHLAND CENTER	RICHLAND COUNTY	2012
CHLORINE	7782505	300	300	WELL #7	RICHLAND CENTER	RICHLAND COUNTY	2012
CAMIX	104206828	23,200	4,000	Premier Cooperative	SEXTONVILLE	RICHLAND COUNTY	2012
DIESEL FUEL	68476346	232,000	139,200	Premier Cooperative	SEXTONVILLE	RICHLAND COUNTY	2012
FUEL OIL	68476302	159,500	95,700	Premier Cooperative	SEXTONVILLE	RICHLAND COUNTY	2012
GASOLINE	8006619	200,000	120,000	Premier Cooperative	SEXTONVILLE	RICHLAND COUNTY	2012
PROPANE	74986	244,000	146,400	Premier Cooperative	SEXTONVILLE	RICHLAND COUNTY	2012
ROUNDUP WEATHERMAX & POWER MAX	70901121	38,700	23,200	Premier Cooperative	SEXTONVILLE	RICHLAND COUNTY	2012



## Vernon County Tier II Facilities Data



## TIER II PLANNING AND REPORTING FACILITY CHEMICAL INVENTORY DATA

CHEMICAL NAME	CAS NUMBER	MAX DAILY AMOUNT	AVG DAILY AMOUNT	FACILITY NAME	FACILITY CITY	FACILITY COUNTY	REPORT YEAR
MOTOR OILS	N/A	10,500	8,000	CHASEBURG FARMERS UNION COOPERATIVE SERVICES	CHASEBURG	VERNON COUNTY	2012
DIESEL FUEL #2	68476346	540,000	270,000	CHASEBURG FARMERS UNION SERVICES	CHASEBURG	VERNON COUNTY	2012
FUEL OIL	68476302	350,000	175,000	CHASEBURG FARMERS UNION SERVICES	CHASEBURG	VERNON COUNTY	2012
GASOLINE	8006619	117,800	58,900	CHASEBURG FARMERS UNION SERVICES	CHASEBURG	VERNON COUNTY	2012
PROPANE	74986	100,000	50,000	CHASEBURG FARMERS UNION SERVICES	CHASEBURG	VERNON COUNTY	2012
AMMONIA (ANHYDROUS)	7664417	1,457	1,457	CROPP COOPERATIVE - CHASEBURG CREAMERY	CHASEBURG	VERNON COUNTY	2012
NITRIC ACID	7697372	3,802	1,991	CROPP COOPERATIVE - CHASEBURG CREAMERY	CHASEBURG	VERNON COUNTY	2012
SULFURIC ACID	7664939	2,560	2,560	CROPP COOPERATIVE - CHASEBURG CREAMERY	CHASEBURG	VERNON COUNTY	2012
DIESEL #2	184	-	-	TOWN OF HAMBURG	CHASEBURG	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	5,100,000	-	TOWN OF HAMBURG	CHASEBURG	VERNON COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #846	COON VALLEY	VERNON COUNTY	2011
ROAD SALT	N/A	17,820	17,820	VILLAGE OF COON VALLEY	COON VALLEY	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	492,660	492,660	VILLAGE OF COON VALLEY	COON VALLEY	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	300,000	-	TOWN OF WHEATLAND	DE SOTO	VERNON COUNTY	2011
DIESEL FUEL	68334305	21,241	8,000	CORPS OF ENGINEERS LOCK & DAM #8	GENOA	VERNON COUNTY	2012
# 2 FUEL OIL	68476302	1,819,170	1,442,890	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
BOTTOM/FLY ASH	N/A	17,992,000	10,736,000	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
DIAMMONIUM EDTA	20824560	29,190	29,190	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
DIESEL FUEL	68476346	31,190	31,190	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
PEBBLE LIME	N/A	1,193,520	456,570	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
SODIUM HYDROXIDE 50% SOLUTION	1310732	12,220	9,015	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
SULFURIC ACID 65-100% PURE	7664939	44,370	32,630	DAIRYLAND POWER STATION #3 - LA CROSSE REACTOR	GENOA	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	4,500,000	-	GENOA TOWNSHIP GARAGE & EQUIPEMENT BUILDING	GENOA	VERNON COUNTY	2011
GRAVEL	71891	475,200	-	TOWN OF HARMONY	GENOA	VERNON COUNTY	2011
ROAD SALT & SAND MIX	71891	4,752,000	-	TOWN OF HARMONY	GENOA	VERNON COUNTY	2011
SAND	71891	2,700,000	-	TOWN OF HARMONY	GENOA	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	750,000	1,000	CITY OF HILLSBORO STREET DEPARTMENT	HILLSBORO	VERNON COUNTY	2011
ROCK SALT	N/A	600,000	1,000	CITY OF HILLSBORO STREET DEPARTMENT	HILLSBORO	VERNON COUNTY	2011
HEATING PROPANE	74986	3,200	1,600	HILLSBORO EQUIPMENT, INC.	HILLSBORO	VERNON COUNTY	2012
MOTOR & HYDRAULIC OIL	N/A	30,000	15,000	HILLSBORO EQUIPMENT, INC.	HILLSBORO	VERNON COUNTY	2012
ROAD GRAVEL	N/A	80,000	7,500	HILLSBORO EQUIPMENT, INC.	HILLSBORO	VERNON COUNTY	2012
ALACHLOR LASSO CONFIDENCE	15972608	9,360	4,600	HILLSBORO FARMERS COOPERATIVE - FERTILIZER PLANT	HILLSBORO	VERNON COUNTY	2012
ANHYDROUS AMMONIA	7664417	100,100	49,520	HILLSBORO FARMERS COOPERATIVE - FERTILIZER PLANT	HILLSBORO	VERNON COUNTY	2012
DIAMMONIUM PHOSPHATE	7783280	900,000	450,000	HILLSBORO FARMERS COOPERATIVE - FERTILIZER PLANT	HILLSBORO	VERNON COUNTY	2012
UREA BIURET: C.A.S. NO. 108-19-0	57136	1,000,000	400,000	HILLSBORO FARMERS COOPERATIVE - FERTILIZER PLANT	HILLSBORO	VERNON COUNTY	2012
DIESEL FUEL MIXTURES	68476346	1,137,590	585,000	HILLSBORO FARMERS COOPERATIVE BULK PETRO AND GRAIN	HILLSBORO	VERNON COUNTY	2012
GASOLINE	8006619	373,283	156,300	HILLSBORO FARMERS COOPERATIVE BULK PETRO AND GRAIN	HILLSBORO	VERNON COUNTY	2012
PROPANE GAS	74986	362,880	217,720	HILLSBORO FARMERS COOPERATIVE BULK PETRO AND GRAIN	HILLSBORO	VERNON COUNTY	2012
ANTI-FREEZE	107211	20,000	8,000	HILLSBORO FARMERS COOPERATIVE WAREHOUSE	HILLSBORO	VERNON COUNTY	2012
ATRAZINE: MARKSMAN, ATRAZINE 4L, AATREX 9-0	6912249	21,572	11,000	HILLSBORO FARMERS COOPERATIVE WAREHOUSE	HILLSBORO	VERNON COUNTY	2012
DIESEL FUEL	68476346	-	-	KWIK TRIP #841	HILLSBORO	VERNON COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #841	HILLSBORO	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	1,800,000	10,000	TOWN OF FOREST	HILLSBORO	VERNON COUNTY	2012
ROAD SALT & SAND MIX - OR SCREENING'S	N/A	4,050,000	-	TOWN OF GREENWOOD	HILLSBORO	VERNON COUNTY	2011
GRAVEL & SCREENINGS	N/A	2,700,000	100,000	TOWN OF HILLSBORO	HILLSBORO	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	450,000	50,000	TOWN OF HILLSBORO	HILLSBORO	VERNON COUNTY	2012
ROAD SALT & SAND OR SCREENINGS	N/A	2,160,000	5,917	TOWNSHIP OF UNION	HILLSBORO	VERNON COUNTY	2012



CHEMICAL NAME	CAS NUMBER	MAX DAILY AMOUNT	AVG DAILY AMOUNT	FACILITY NAME	FACILITY CITY	FACILITY COUNTY	REPORT YEAR
ANHYDROUS AMMONIA	7664417	4,088	4,088	WHITEHALL SPECIALTIES	HILLSBORO	VERNON COUNTY	2012
FUEL OIL	68476346	25,000	25,000	WHITEHALL SPECIALTIES	HILLSBORO	VERNON COUNTY	2012
SULFURIC ACID	7664939	1,480	1,480	WHITEHALL SPECIALTIES	HILLSBORO	VERNON COUNTY	2012
AGGREGATES	14808607	100,000,000	100,000,000	MATHY CONSTRUCTION #23	HILLSBORS	VERNON COUNTY	2011
ASPHALT CEMENT	8052424	375,000	300,000	MATHY CONSTRUCTION #23	HILLSBORS	VERNON COUNTY	2011
DIESEL FUEL	68476346	70,000	60,000	MATHY CONSTRUCTION #23	HILLSBORS	VERNON COUNTY	2011
REPROCESSED OIL	8002059	109,000	100,000	MATHY CONSTRUCTION #23	HILLSBORS	VERNON COUNTY	2011
#1 AND #2 DIESEL FUEL	N/A	12,600	3	KICKAPOO AREA SCHOOL DISTRICT	KICKAPOO	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	3,000,000	2,000	TOWN OF STARK	LA FARGE	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	2,000,000	-	TOWN OF WEBSTER	LA FARGE	VERNON COUNTY	2011
ROAD SALT & SAND	N/A	2,700,000	1,350,000	TOWN OF WHITESTOWN	LA FARGE	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	937,000	20,000	TOWN OF KICKAPOO	READSTOWN	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	999,000	333,000	VILLAGE OF READSTOWN	READSTOWN	VERNON COUNTY	2012
GASOLINE	8006619	-	-	KWIK TRIP #308	STODDARD	VERNON COUNTY	2011
DIESEL FUEL	N/A	500	250	TOWN OF BERGEN	STODDARD	VERNON COUNTY	2012
GRAVEL	N/A	375,000	1,000	TOWN OF BERGEN	STODDARD	VERNON COUNTY	2012
ROAD SALT & SAND MIX	N/A	4,500	5	TOWN OF BERGEN	STODDARD	VERNON COUNTY	2012
SODIUM CHLORIDE	7647145	300,000	900	TOWN OF LIBERTY	VIOLA	VERNON COUNTY	2011
100 LOW LEAD AV FUEL	N/A	12,000	12,000	CITY OF VIROQUA AIRPORT	VIROQUA	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	2,018,000	3	CITY OF VIROQUA SAND/SALT STORAGE	VIROQUA	VERNON COUNTY	2012
ARGON	7440371	10,368	7,200	CUNelson Global Products	VIROQUA	VERNON COUNTY	2012
CARBON DIOXIDE (CO2)	124389	13,000	9,100	CUNelson Global Products	VIROQUA	VERNON COUNTY	2012
SULFURIC ACID IN ELECTROLYTE SOLUTION	7664939	3,170	3,170	CUNelson Global Products	VIROQUA	VERNON COUNTY	2012
LIQUID PROPANE	74986	121,889	121,889	DELAP OIL & GAS COMPANY	VIROQUA	VERNON COUNTY	2012
LIQUID PROPANE	74986	61,056	29,680	FERRELLGAS L. P.	VIROQUA	VERNON COUNTY	2012
SULFURIC ACID	7664939	929	929	FRONTIER COMMUNICATIONS-VIROQUA	VIROQUA	VERNON COUNTY	2012
PROPANE	74986	107,000	63,800	HEARTLAND COUNTRY CO-OP - VIROQUA LP pLANT	VIROQUA	VERNON COUNTY	2012
PROPANE	74986	107,000	63,800	Heartland Country Co-op-Viroqua LP plant	VIROQUA	VERNON COUNTY	2012
GASOLINE	8006619	-	-	KWIK TRIP #757	VIROQUA	VERNON COUNTY	2011
GASOLINE	8006619	-	-	KWIK TRIP #758	VIROQUA	VERNON COUNTY	2011
AGGREGATE	14808607	100,000,000	100,000,000	MATHY CONSTRUCTION Company # 55	VIROQUA	VERNON COUNTY	2011
ASPHALT CEMENT	8052424	375,000	300,000	MATHY CONSTRUCTION Company # 55	VIROQUA	VERNON COUNTY	2011
DIESEL FUEL	68476346	70,000	60,000	MATHY CONSTRUCTION Company # 55	VIROQUA	VERNON COUNTY	2011
REPROCESSED OIL	8002059	145,000	100,000	MATHY CONSTRUCTION Company # 55	VIROQUA	VERNON COUNTY	2011
DIESEL FUEL	68476346	-	-	MERLIN MAGELAND OIL COMPANY, INC	VIROQUA	VERNON COUNTY	2011
FUEL OIL MIX	68476302	-	-	MERLIN MAGELAND OIL COMPANY, INC	VIROQUA	VERNON COUNTY	2011
GASOLINE	8006619	-	-	MERLIN MAGELAND OIL COMPANY, INC	VIROQUA	VERNON COUNTY	2011
DIESEL FUEL	68476346	-	-	NCR CORPORATION	VIROQUA	VERNON COUNTY	2011
SULFURIC ACID	7664939	1,750	-	NCR CORPORATION	VIROQUA	VERNON COUNTY	2011
ARGON	7440371	10,368	7,200	Nelson Global Products, Inc.	VIROQUA	VERNON COUNTY	2012
CARBON DIOXIDE	124389	13,000	9,100	Nelson Global Products, Inc.	VIROQUA	VERNON COUNTY	2012
SULFURIC ACID	7664939	3,170	3,170	Nelson Global Products, Inc.	VIROQUA	VERNON COUNTY	2012
#2 DIESEL FUEL	68476346	56,000	50,000	RIVER CITY PAVING #49	VIROQUA	VERNON COUNTY	2011
AGGREGATES	14808607	100,000,000	100,000,000	RIVER CITY PAVING #49	VIROQUA	VERNON COUNTY	2011
ASPHALT CEMENT	8052424	260,000	200,000	RIVER CITY PAVING #49	VIROQUA	VERNON COUNTY	2011
BURNING OIL	8002059	150,000	150,000	RIVER CITY PAVING #49	VIROQUA	VERNON COUNTY	2011
LIQUID PROPANE	74986	76,400	76,400	RIVER CITY PAVING #49	VIROQUA	VERNON COUNTY	2011
PROPANE	74986	30,000	9,500	SHELDON ASPHALT PAVING	VIROQUA	VERNON COUNTY	2012
GRAVEL	N/A	840,000	150,000	TOWN OF FRANKLIN	VIROQUA	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	300,000	100	TOWN OF FRANKLIN	VIROQUA	VERNON COUNTY	2011

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>MAX DAILY AMOUNT</u>	<u>AVG DAILY AMOUNT</u>	<u>FACILITY NAME</u>	<u>FACILITY CITY</u>	<u>FACILITY COUNTY</u>	<u>REPORT YEAR</u>
ROAD SALT & SAND MIX	N/A	4,600,000	-	TOWN OF JEFFERSON	VIROQUA	VERNON COUNTY	2011
ROAD SALT & SAND MIX	N/A	1,800,000	900,000	TOWN OF STERLING	VIROQUA	VERNON COUNTY	2012
ROAD SALT & SAND MIX & SCREENING	N/A	103,000,000	-	TOWN OF VIROQUA SHOP	VIROQUA	VERNON COUNTY	2011
DIESEL FUEL	68476346	80,000	40,000	VERNON COUNTY HIGHWAY DEPARTMENT	VIROQUA	VERNON COUNTY	2012
PAINT	N/A	50,000	1,900	VERNON COUNTY HIGHWAY DEPARTMENT	VIROQUA	VERNON COUNTY	2012
SODIUM CHLORIDE (ROAD SALT)	7647145	18,000,000	1,000,000	Vernon County Highway Dept. Railroad Ave	VIROQUA	VERNON COUNTY	2012
PROPANE	74986	126,600	126,600	VESBACH OIL & PROPANE INC.	VIROQUA	VERNON COUNTY	2011
DIESEL	68476302	49,980	25,000	VIROQUA AREA SCHOOLS	VIROQUA	VERNON COUNTY	2012
GASOLINE	8006619	14,577	8,000	VIROQUA AREA SCHOOLS	VIROQUA	VERNON COUNTY	2012
AIR ENTRAINING CHEMICAL ADMIXTURE	N/A	8,330	8,330	#7 REX LOGO 10 PLANT	WESTBY	VERNON COUNTY	2011
CEMENT	25581	1,250,000	500,000	#7 REX LOGO 10 PLANT	WESTBY	VERNON COUNTY	2011
FLY ASH	7631869	375,000	150,000	#7 REX LOGO 10 PLANT	WESTBY	VERNON COUNTY	2011
SAND	14808607	3,500,000	1,400,000	#7 REX LOGO 10 PLANT	WESTBY	VERNON COUNTY	2011
WATER REDUCING ADMIXTURE	N/A	19,992	19,992	#7 REX LOGO 10 PLANT	WESTBY	VERNON COUNTY	2011
NITROGEN REFRIGERATED LIQUID	7727379	65,000	32,500	ACCELERATED GENETICS	WESTBY	VERNON COUNTY	2012
LEAD	7439921	16,716	16,716	AT&T CORPORATION	WESTBY	VERNON COUNTY	2012
SULFURIC ACID	7664939	1,744	1,744	AT&T CORPORATION	WESTBY	VERNON COUNTY	2012
LEAD	7439921	16,716	16,716	AT&T MICRO TOWER (COON VALLEY)	WESTBY	VERNON COUNTY	2012
SULFURIC ACID	7664939	1,744	1,744	AT&T MICRO TOWER (COON VALLEY)	WESTBY	VERNON COUNTY	2012
ROAD SALT & SAND OR SCREENINGS MIX	N/A	1,700,000	11,333	CITY OF WESTBY	WESTBY	VERNON COUNTY	2012
ROAD SALT & SAND OR SCREENING MIX	N/A	4,200,000	23,333	COON, TOWN OF - VERNON COUNTY	WESTBY	VERNON COUNTY	2011
PROPANE	74986	107,000	63,800	HEARTLAND COUNTRY COOP	WESTBY	VERNON COUNTY	2012
BREAKFREE ATZ	N/A	18,522	7,400	HEARTLAND COUNTRY CO-OP	WESTBY	VERNON COUNTY	2012
CORNERSTONE PLUS	38641940	37,908	15,100	HEARTLAND COUNTRY CO-OP	WESTBY	VERNON COUNTY	2012
HALEX GT	N/A	30,336	12,100	HEARTLAND COUNTRY CO-OP	WESTBY	VERNON COUNTY	2012
LUMAX	87392129	44,344	17,700	HEARTLAND COUNTRY CO-OP	WESTBY	VERNON COUNTY	2012
TOUCHDOWN TOTAL	1071836	32,928	13,100	HEARTLAND COUNTRY CO-OP	WESTBY	VERNON COUNTY	2012
DIESEL FUEL	68476346	209,916	200,000	MIDWEST FUELS WESTBY BULK PLANT	WESTBY	VERNON COUNTY	2012
GASOLINE	8030317	92,463	90,000	MIDWEST FUELS WESTBY BULK PLANT	WESTBY	VERNON COUNTY	2012
ROAD SALT & SCREENING	N/A	7,500,000	7,500,000	TOWN OF CHRISTIANA	WESTBY	VERNON COUNTY	2011
DIESEL FUEL	N/A	13,300	7,100	WESTBY AREA SCHOOL DISTRICT	WESTBY	VERNON COUNTY	2011



## COUNTY LEVEL OBSERVATIONS AND CONCLUSIONS

During the course of the study, since all four counties were researched at about the same time, it became evident that while many of the attributes of commodity flow were similar, there were noteworthy differences between them that County Planners and HazMat Team leaders should be aware of.

### **Crawford County**

- 4) Crawford County is surrounded on two sides by water: The Wisconsin River on the south edge, and the Mississippi on the west. Prairie du Chien, its largest city sits right in the southwest corner. It has some air traffic, barges, several State Roads and 2 Class 1 rail lines side-by-side running right through the heart of town. A natural gas pipeline terminates there as well.
- 5) Prairie du Chien itself is home to several significant business and commodity distribution points, both retail and industrial.
- 6) During the observation period, while there was an average flow of materials, compared to Dodgeville, and taking into account nearby manufacturing, rail spurs and river terminals, there was unexpectedly less hazmat movement relative to the benchmark.
- 7) The number of grade crossings in Prairie du Chien is of concern. That several of them are major highways, makes the planning needs between rail hazmat and road hazmat a priority.
- 8) River spill response vis-à-vis the river load/unload terminals would make for a few good tabletop exercises.

### **Iowa County**

- 1) Dodgeville was home to a vastly greater roadway hazmat density than anywhere else. Adding Hwy. 151 traffic to that increases the level to be on a par with urban centers like Janesville, Madison, La Crosse or Eau Claire. The non-hazmat commodity levels were correspondingly higher as well.
- 2) Mineral Point is home to quarry blasting business operations – 2 that I was able to find, possible a 3<sup>rd</sup> that couldn't be confirmed. They travel. There are many quarries in southwest Wisconsin these trucks roll to, one of which went through Richland Center during this study.
- 3) Three of the four Hazardous Waste transports that were witnessed, were observed in Dodgeville and on Hwy 151. Specifically: Clean Harbors (one 53' van) and Hydrite (one 53' van, one large tanker). Veolia likely runs vehicles through the area as well, they just weren't seen on the day of the study.
- 4) The primary shipping corridor between Hwy. 151, 18 and 23 makes Dodgeville, somewhat incidentally, a kind of hub. Chicago, Milwaukee, Lake Michigan and all points west, including Minnesota, Iowa, South Dakota and Nebraska connect to some extent through Dodgeville.
- 5) United Parcel Service operates a distribution center in Dodgeville in addition to Lands' End being there.
- 6) There is some Air Freight going back and forth between Dodgeville and Iowa County Airport west of Mineral Point.
- 7) The largest diameter high-pressure natural gas pipeline in the area lies on the west edge of the city.
- 8) *The Andersons* up in the Northeast tip of the county not only marks the only rail going through Iowa County, but also one of its largest Tier II facilities.

### **Richland County**

- 1) Richland Center, like Dodgeville, is situated somewhat central to the County political boundaries. Nearly all the Tier II facilities for the County are within Richland Center City Limits.
- 2) The high density of Dairy Processing Facilities makes the city very active in terms of both hazmat and non-hazmat commodity flow.
- 3) Air and Rail hazmat transport are on the far periphery of the County. Though quantities are relatively low, the primary response would be the burden of Lone Rock, with a Spring Green, Richland Center assist.
- 4) Many of the hazmats observed that weren't related to agriculture or dairy were Pass-Thru. There's a relatively high level of materials going through the county that are neither generated nor terminated there.
- 5) Richland County's near-exclusive hazmat concern is roadway based.

### **Vernon County**

- 1) Home to *Organic Valley*, there is a reasonably high concentration of Ag and Dairy in this county as well, as compared to Richland County.
- 2) With BNSF rail and the Mississippi River on the west edge of the county, there is the potential for a lot of activity to be seen in the county at times.
- 3) Viroqua had roughly the same amount of haz- and non-haz commodity flow as Prairie du Chien and Richland Center.
- 4) Vernon County has a reasonably large (379 MW) coal power plant on its west edge, on the Mississippi River.
- 5) The Tri-County Hazmat Team operates out of Viroqua.

# APPENDIX A: TABLES & GRAPHS

## Discussion

General tables and graphs that were not included elsewhere but are still valuable reference material from the research phase, are in this Appendix.

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## Chapter 3 ■ Vehicles

**Table 44**  
**Light Trucks Involved in Crashes by Most Harmful Event and Crash Severity**

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision with Motor Vehicle in Transport by Initial Point of Impact:								
Front	6,155	35.3	436,000	41.4	948,000	35.1	1,391,000	36.8
Left Side	963	5.5	85,000	8.0	272,000	10.1	358,000	9.5
Right Side	795	4.6	86,000	8.1	273,000	10.1	360,000	9.5
Rear	833	4.8	252,000	23.9	717,000	26.5	970,000	25.7
Other/Unknown	64	0.4	1,000	*	*	*	1,000	*
Subtotal	8,810	50.6	860,000	81.6	2,211,000	81.8	3,080,000	81.6
Collision with Fixed Object								
	2,337	13.4	79,000	7.5	192,000	7.1	273,000	7.2
Collision with Object Not Fixed:								
Nonmotorist	2,178	12.5	47,000	4.4	1,000	*	50,000	1.3
Other	344	2.0	22,000	2.1	254,000	9.4	276,000	7.3
Subtotal	2,522	14.5	68,000	6.5	255,000	9.4	326,000	8.6
Noncollision	3,753	21.5	47,000	4.4	46,000	1.7	97,000	2.6
Total	**17,428	100.0	1,053,000	100.0	2,704,000	100.0	3,775,000	100.0

\*Less than 500 or less than 0.05 percent.

\*\*Includes 6 light trucks involved in fatal crashes with unknown most harmful event.

## Chapter 3 ■ Vehicles

**Table 46**  
**Large Trucks Involved in Crashes by Most Harmful Event and Crash Severity**

Most Harmful Event	Crash Severity						Total	
	Fatal		Injury		Property Damage Only			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Collision with Motor Vehicle in Transport by Initial Point of Impact:								
Front	1,619	46.5	22,000	37.4	60,000	28.2	84,000	30.4
Left Side	311	8.9	7,000	12.1	25,000	11.8	33,000	11.8
Right Side	153	4.4	7,000	11.6	32,000	14.9	39,000	14.0
Rear	513	14.7	11,000	19.4	43,000	20.1	55,000	19.9
Other/Unknown	29	0.8	*	0.4	1,000	0.4	1,000	0.4
Subtotal	2,625	75.3	47,000	80.9	161,000	75.3	211,000	76.5
Collision with Fixed Object								
	135	3.9	2,000	4.1	22,000	10.2	24,000	8.8
Collision with Object Not Fixed:								
Nonoccupant	313	9.0	1,000	2.3	*	*	2,000	0.6
Other	81	2.3	2,000	3.5	25,000	11.8	27,000	9.9
Subtotal	394	11.3	3,000	5.8	25,000	11.8	29,000	10.6
Noncollision	328	9.4	5,000	9.3	6,000	2.7	12,000	4.2
Total	**3,484	100.0	58,000	100.0	214,000	100.0	276,000	100.0

\*Less than 500 or less than 0.05 percent.

\*\*Includes 2 large trucks involved in fatal crashes with unknown most harmful event.





## Federal Railroad Administration Office of Safety Analysis

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### 2.03 - Train Accidents by Railroad Groups

[Back to Query Page](#) [Print Version](#)

#### ACCIDENTS IN DESCENDING FREQUENCY BY RAILROAD

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - VERNON  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
BNSF BNSF Rwy Co. [BNSF]	1	100.0					1			

#### ACCIDENTS IN DESCENDING FREQUENCY BY STATE

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - VERNON  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
GRAND TOTAL....	1	100.0					1			
Wisconsin	1	100.0					1			

9/5/12

2.03 - Train Accidents by Railroad Groups

**ACCIDENTS IN DESCENDING FREQUENCY BY CAUSE**

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - VERNON  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
GRAND TOTAL.....	1	100.0					1			
E4TC Truck hunting	1	100.0					1			

9/5/12

2.03 - Train Accidents by Railroad Groups

**ACCIDENTS IN DESCENDING FREQUENCY BY TYPE**

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - VERNON  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
GRAND TOTAL.....	1	100.0					1			
01 Derailments	1	100.0					1			

9/5/12

2.03 - Train Accidents by Railroad Groups

**ACCIDENTS IN DESCENDING FREQUENCY BY TRACK CLASS**

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - VERNON  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

Trk Cls	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
Total	1	100.0					1			
4	1	100.0					1			

9/5/12

2.03 - Train Accidents by Railroad Groups

**ACCIDENTS IN DESCENDING FREQUENCY BY STATE**

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - CRAWFORD  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
GRAND TOTAL....	4	100.0	2				2			
Wisconsin	4	100.0	2				2			

9/5/12

2.03 - Train Accidents by Railroad Groups

**ACCIDENTS IN DESCENDING FREQUENCY BY CAUSE**

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - CRAWFORD  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
----GRAND TOTAL.....	4	100.0	2				2			
E53C Journal (roller bearing) overheating	1	25.0	1							
H997 Motor car or other on-track equipment rules (other than main track authority) - Failure to Comply	1	25.0					1			
M404 Obj/equip on/fouling track, other	1	25.0	1							
T110 Wide gage(defective/missing crossties)	1	25.0					1			

9/5/12

2.03 - Train Accidents by Railroad Groups

**ACCIDENTS IN DESCENDING FREQUENCY BY TRACK CLASS**

Selections: Railroad Group - All Groups  
 State - WISCONSIN County - CRAWFORD  
 All Regions  
 All Causes / All Types of Accidents / All Track Types  
 January through December, 2011

Trk Cls	Total		Total Year Counts			YTD Counts Jan - Dec		% Change Over Time		
	Accs	Pct of Total	2008	2009	2010	2010	2011	2008 to 2010	2009 to 2010	To Dec 2010 2011
Total	4	100.0	2				2			
4	3	75.0	2				1			
1	1	25.0					1			

## APPENDIX B: MAPS

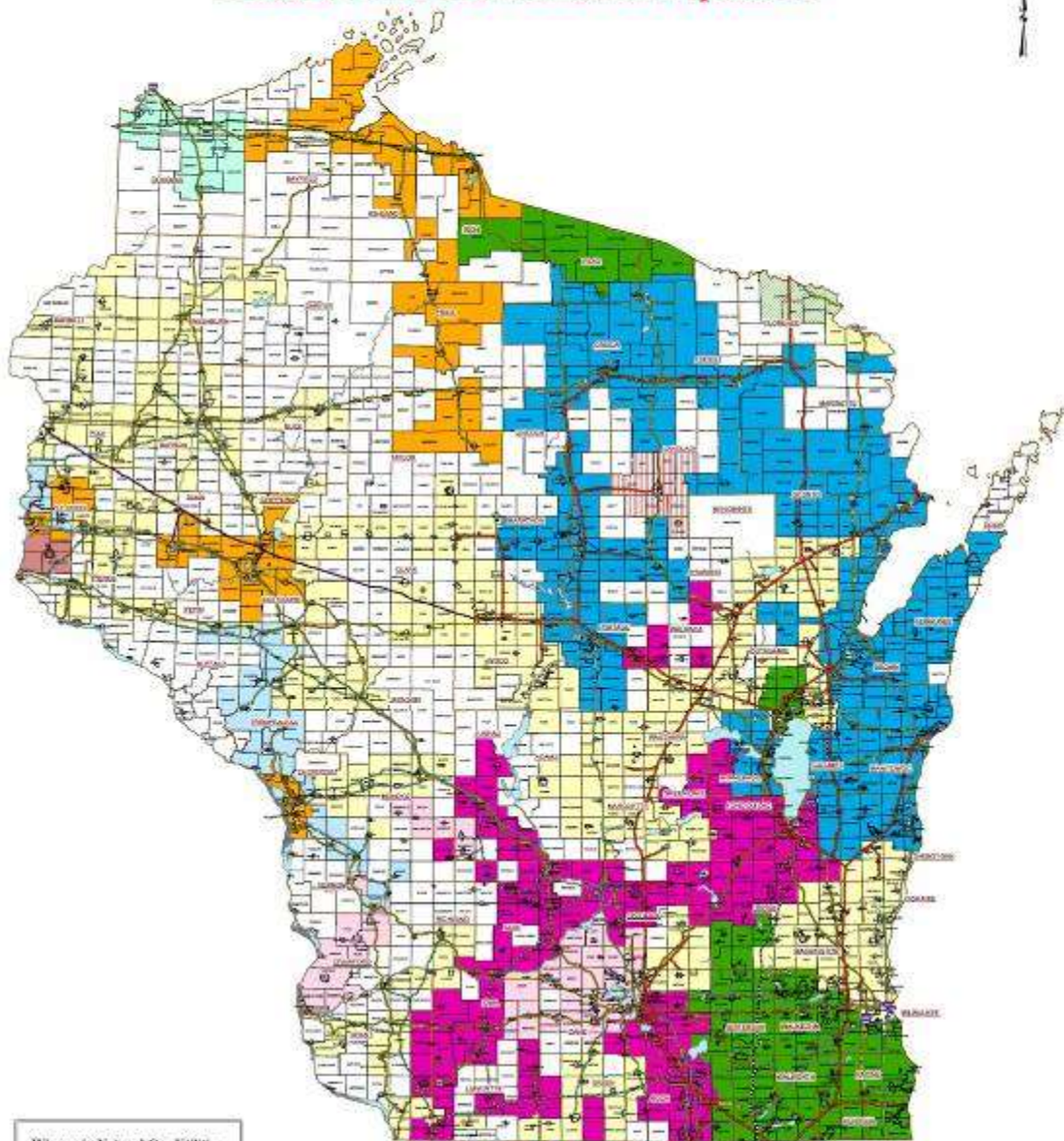
### Discussion

Many of the State and Regional Maps that are too general or large in scope for the individual sections are in this Appendix. Pipeline, Rail and Energy maps that might be of later research interest have been included.

---



# Wisconsin Natural Gas Utility Service Territories & Natural Gas Transmission Pipelines



## Wisconsin Natural Gas Utilities

- Alliant Wisconsin Power & Light
- City Gas Company
- Florence Utility Commission
- Madison Gas and Electric
- Midwest Natural Gas Inc.
- St. Croix Valley Natural Gas Company
- Superior Water, Light & Power Company
- Wisconsin Electric Gas Operations
- Wisconsin Gas Company
- Wisconsin Public Service Corp.
- Xcel (Northern States Power Company)

Source: Territory locations provided by Wisconsin Gas, WBE Energy, Alliant Energy, MG&E, and Xcel Energy - Winter 2010.

## Natural Gas Transmission Pipeline Owners

- American Natural Resources
- Great Lakes Gas
- Guardian
- Guardian II
- Midwest Natural Gas
- Northern Natural Gas
- Viking Gas Transmission
- Wisconsin Gas Company
- Xcel - Guardian Lateral

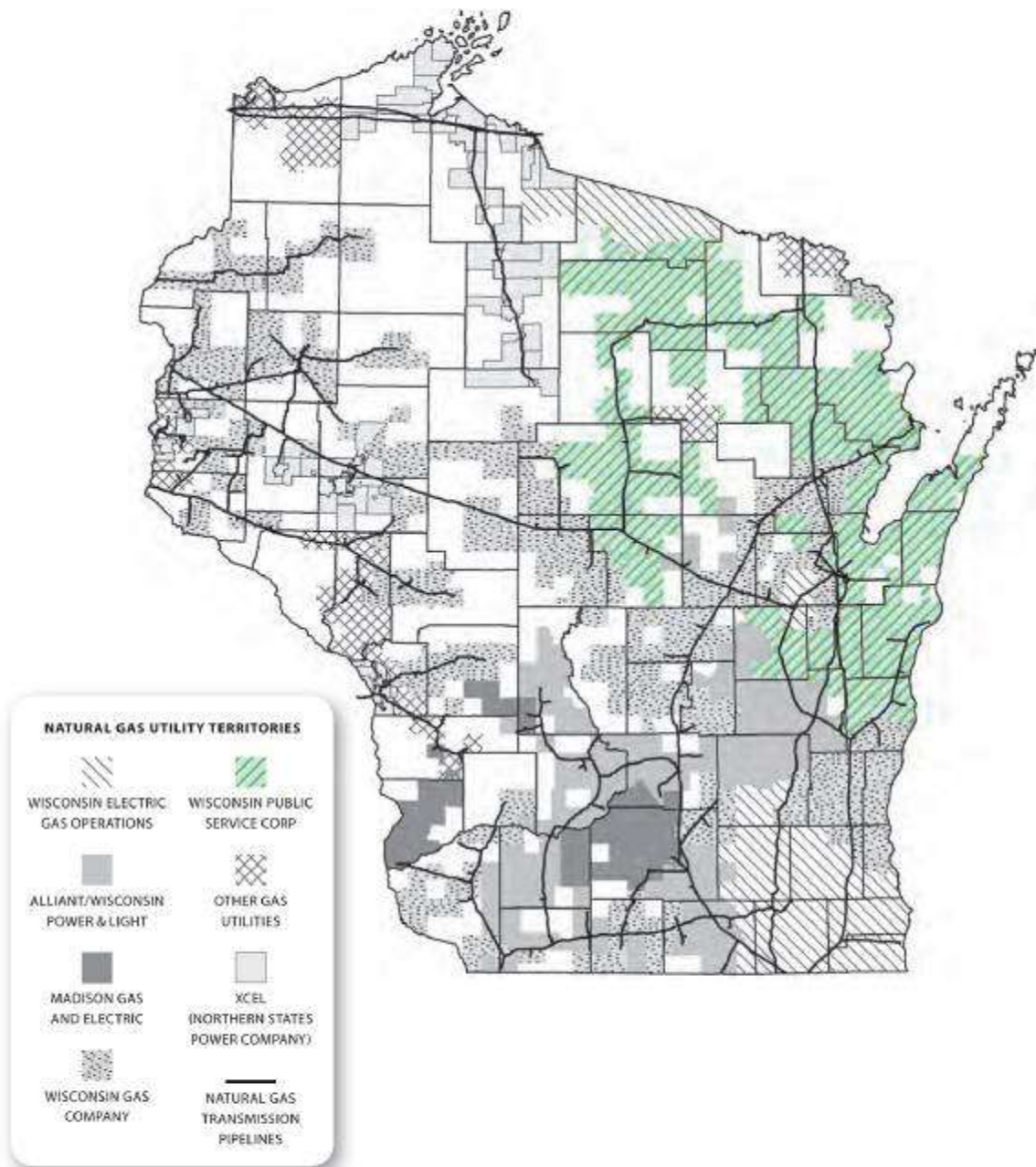


December 2010

Pub. 11/NATURAL GAS UTILITY DEC 10 May 2022 10:41:06 Version 8 Pipeline Size\_Les\_Fat\_2011.indd



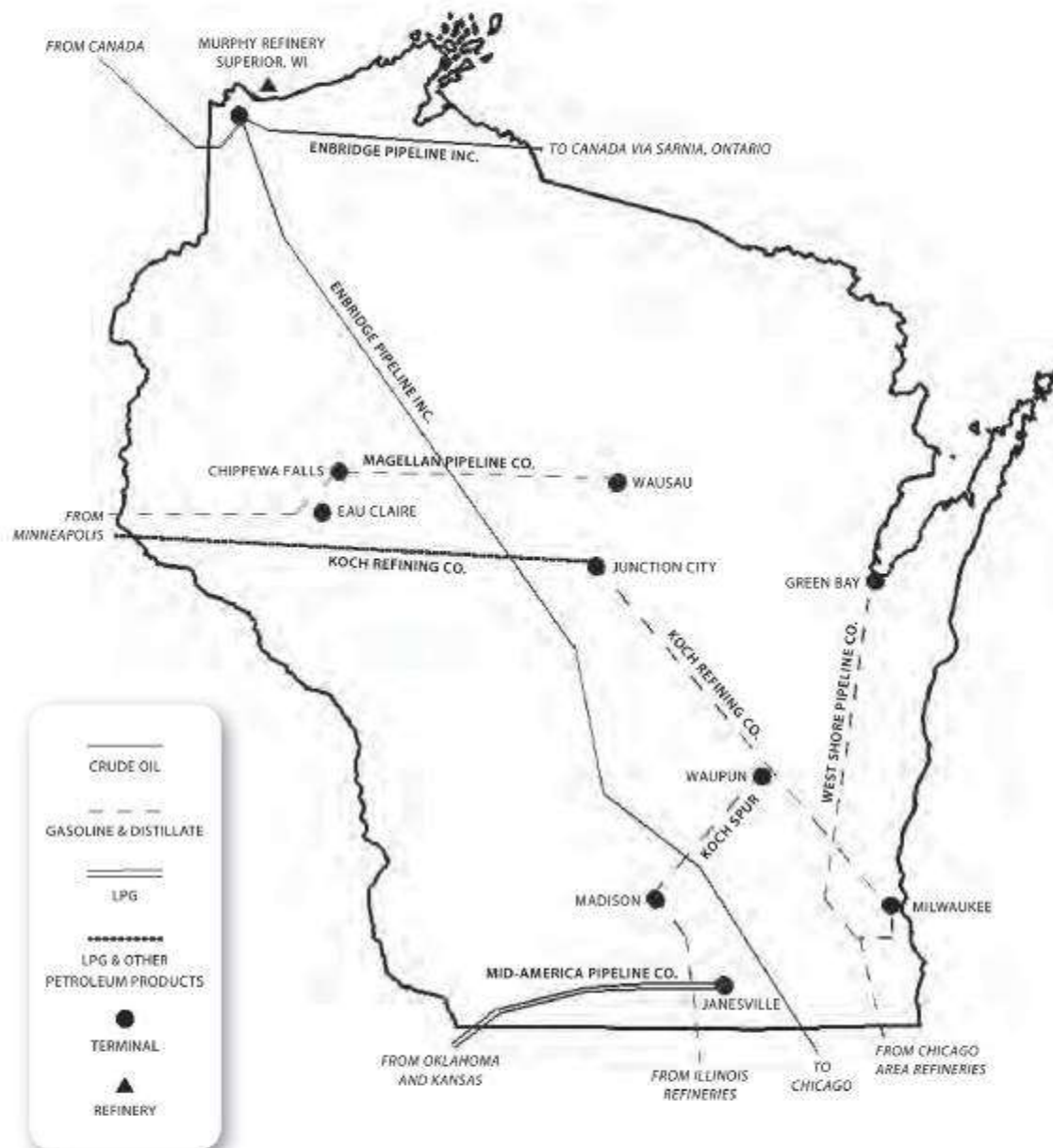
## Wisconsin Natural Gas Company Territories and Major Pipelines



Source: Public Service Commission of Wisconsin

158 | WISCONSIN ENERGY STATISTICS 2010

# Wisconsin Petroleum Pipelines



Source: Wisconsin Office of Energy Independence.

WISCONSIN ENERGY STATISTICS 2010 | 157

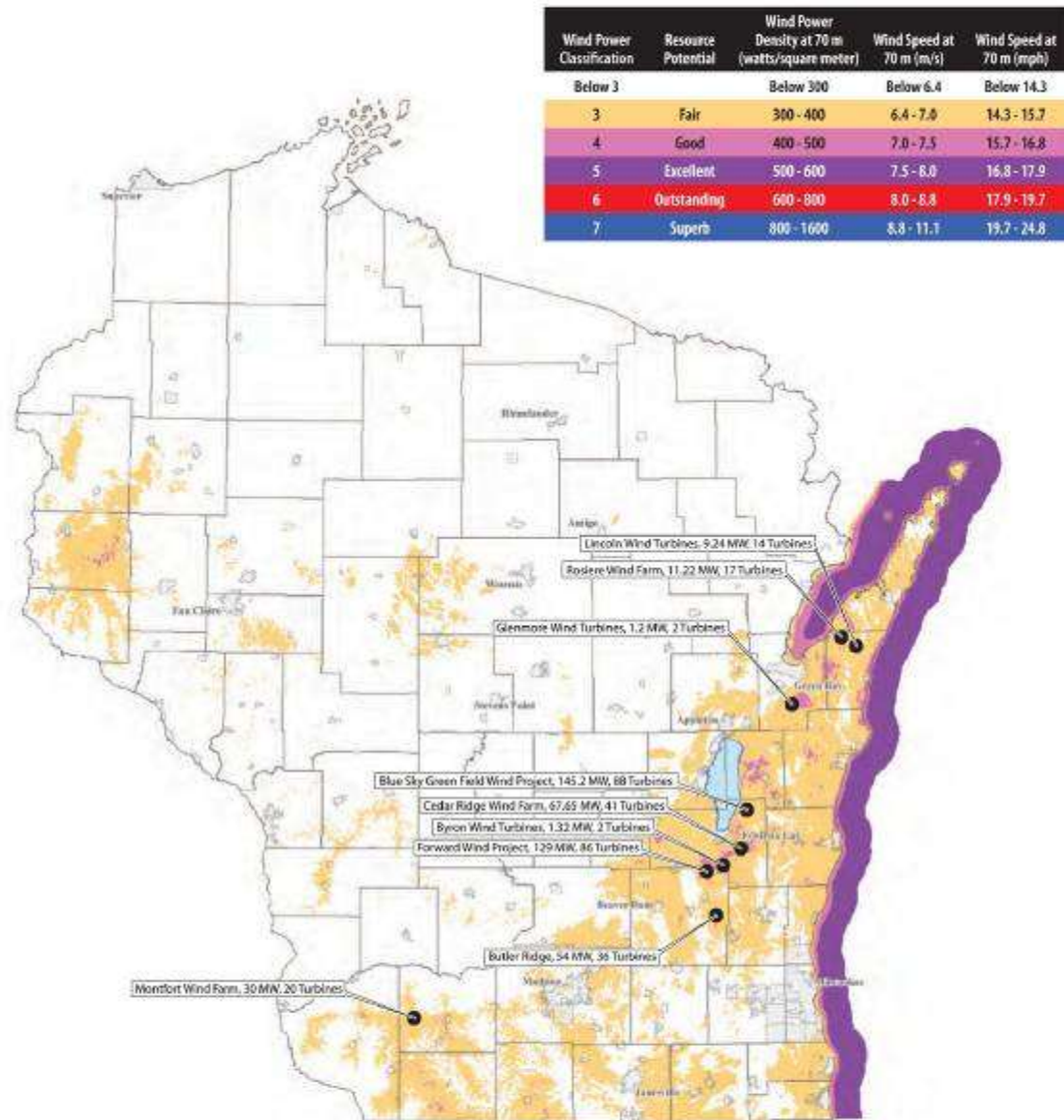
## Coal Transportation Routes in Wisconsin and Major Coal-Fired Power Plants, 2010



Source: Wisconsin Office of Energy Independence

WISCONSIN ENERGY STATISTICS 2010 | 159

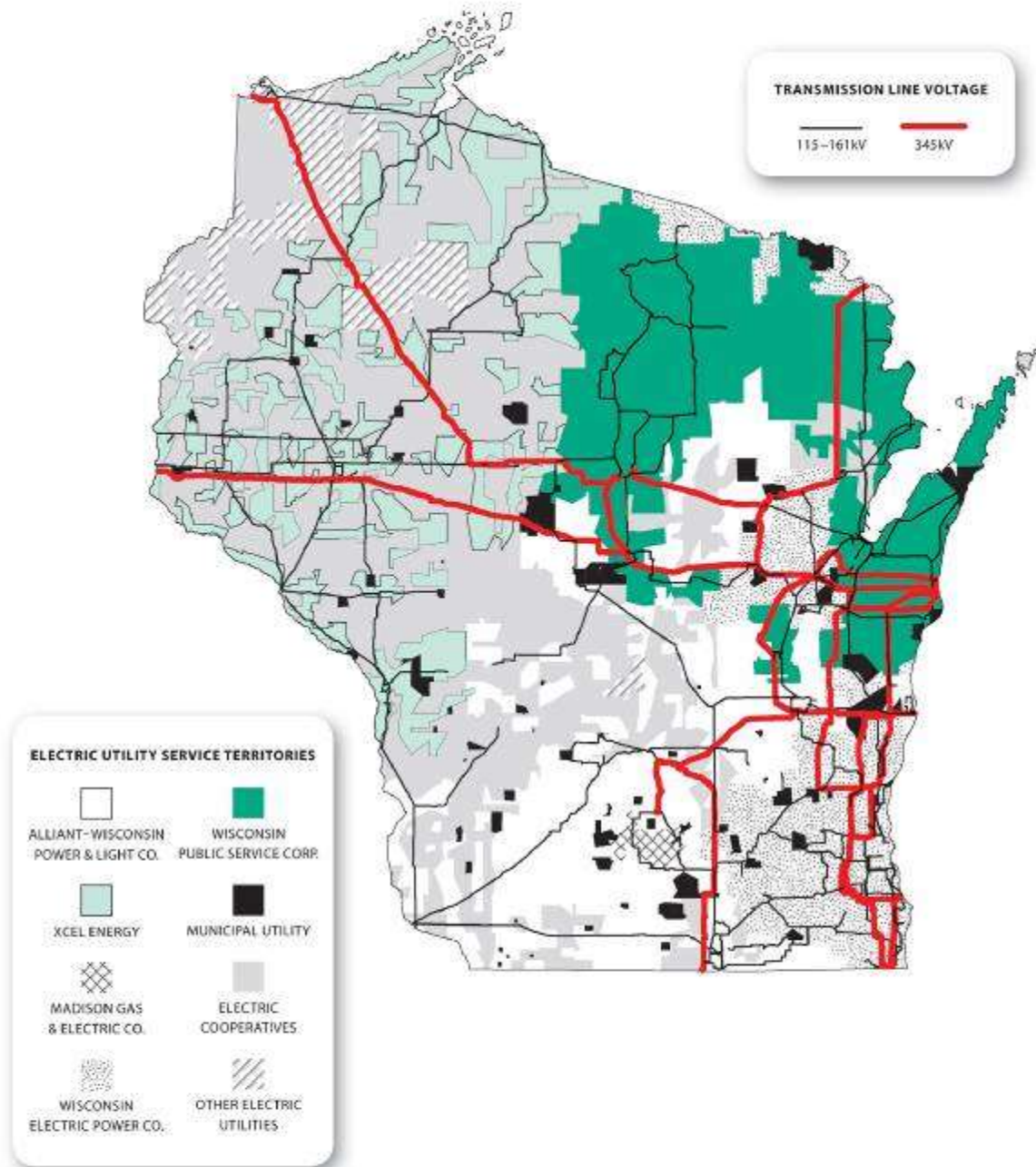
# Estimated Wind Power Energy Potential (at 70 meters) and Existing Wind Development Locations, 2010



Wind Data Source: AWS Truewind, 2008



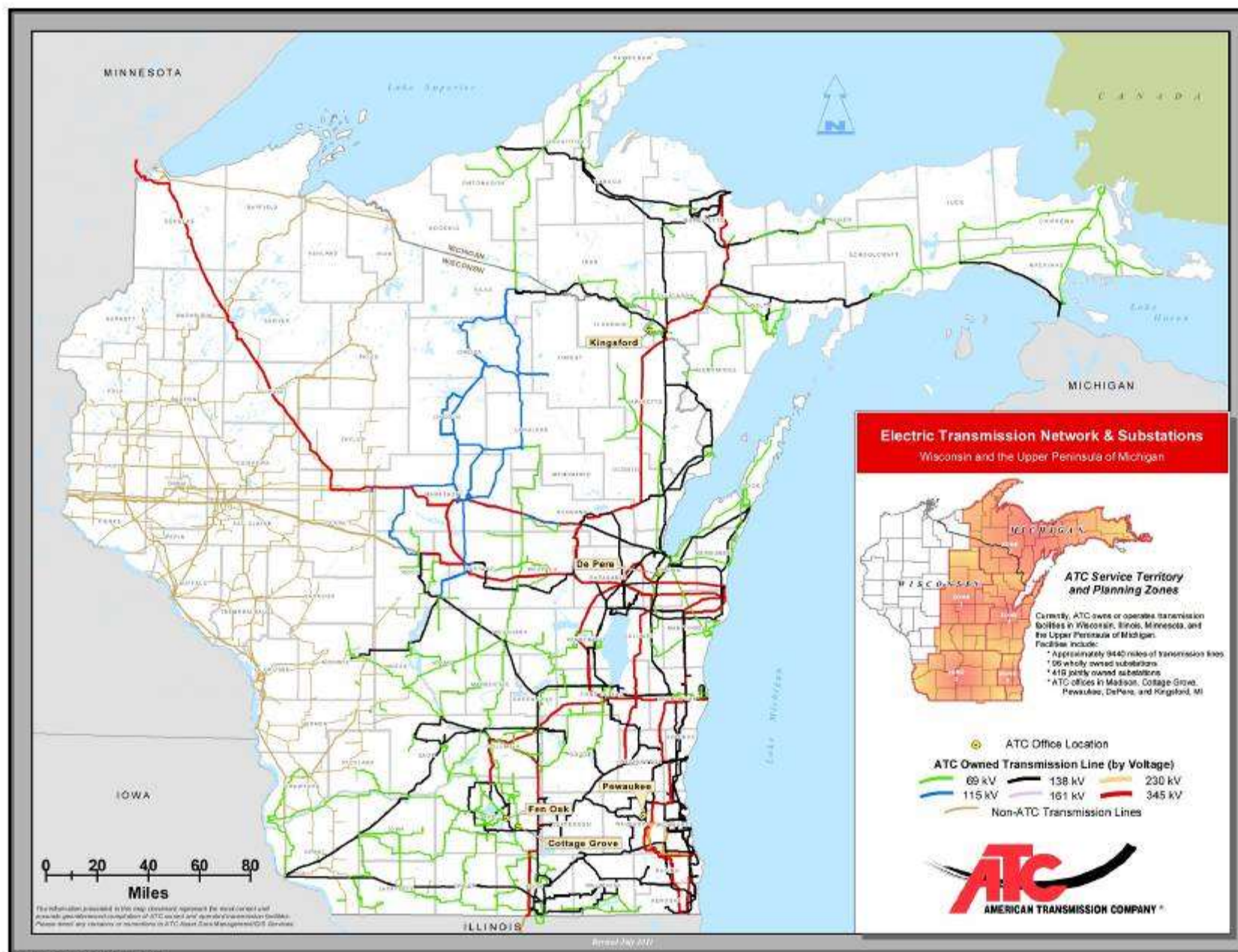
## Major Electric Lines and Service Territories



Source: Public Service Commission of Wisconsin-2010.

160 | WISCONSIN ENERGY STATISTICS 2010





ATC Facility Letter Schematic Modified: July 16, 2011

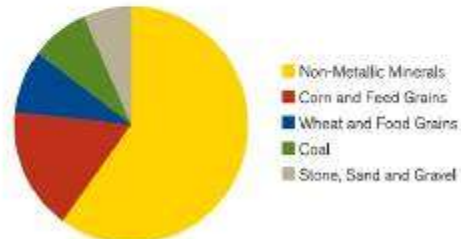
## Union Pacific in Wisconsin

### 2011 FAST FACTS

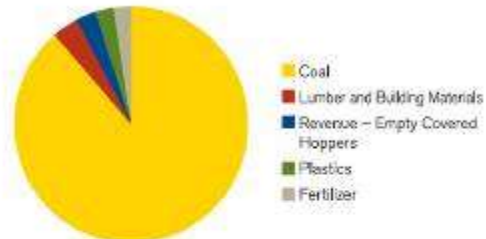
Miles of Track	928
Annual Payroll	\$33.1 million
In-State Purchases	\$75.5 million
Capital Spending	\$10.7 million
Employees	364



TOP FIVE COMMODITIES SHIPPED IN 2011  
(BY VOLUME)



TOP FIVE COMMODITIES RECEIVED IN 2011  
(BY VOLUME)



### RAIL CARS ORIGINATED IN WISCONSIN

2007	50,817
2008	47,632
2009	29,085
2010	34,846
2011	50,453

### RAIL CARS TERMINATED IN WISCONSIN

2007	187,249
2008	150,415
2009	84,612
2010	89,889
2011	170,646

## Union Pacific in Wisconsin

Union Pacific crosses Wisconsin from Superior in the northwest to Milwaukee in the southeast. Main line tracks run from the Twin Cities area on the western border across the state to Milwaukee and south along Lake Michigan into Chicago.

Major commodities handled by the railroad include coal, frac sand, automobiles, auto parts, potash and supplies for malt houses and flour mills.

From 2007 to 2011, Union Pacific's capital investment in Wisconsin was more than \$106 million.

[www.up.com](http://www.up.com)



150  
YEARS











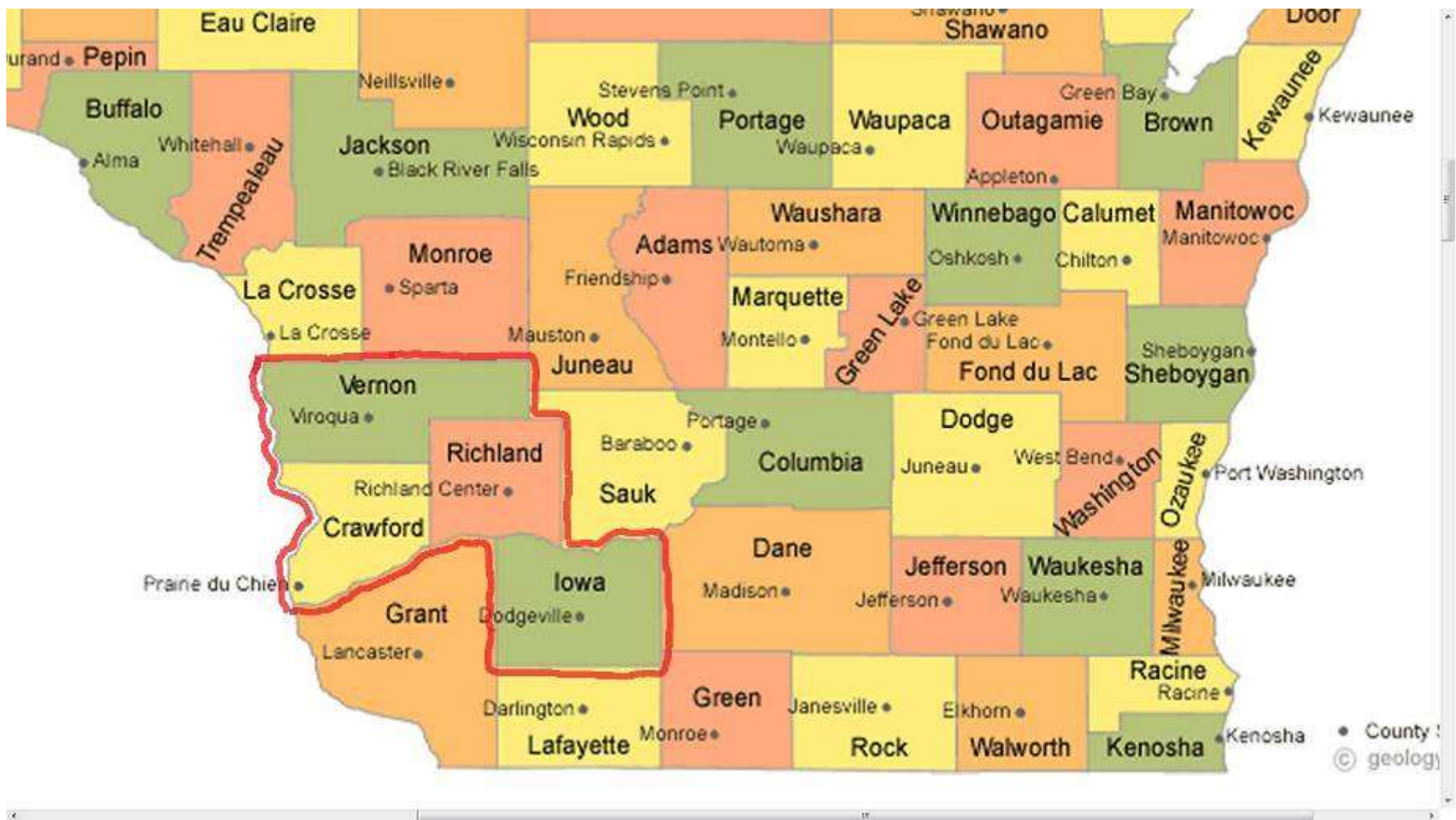
Union Pacific System Map





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- ▼ Maps
  - CSX System Map
- Tools
- News
- FAQs
- Contact Us



























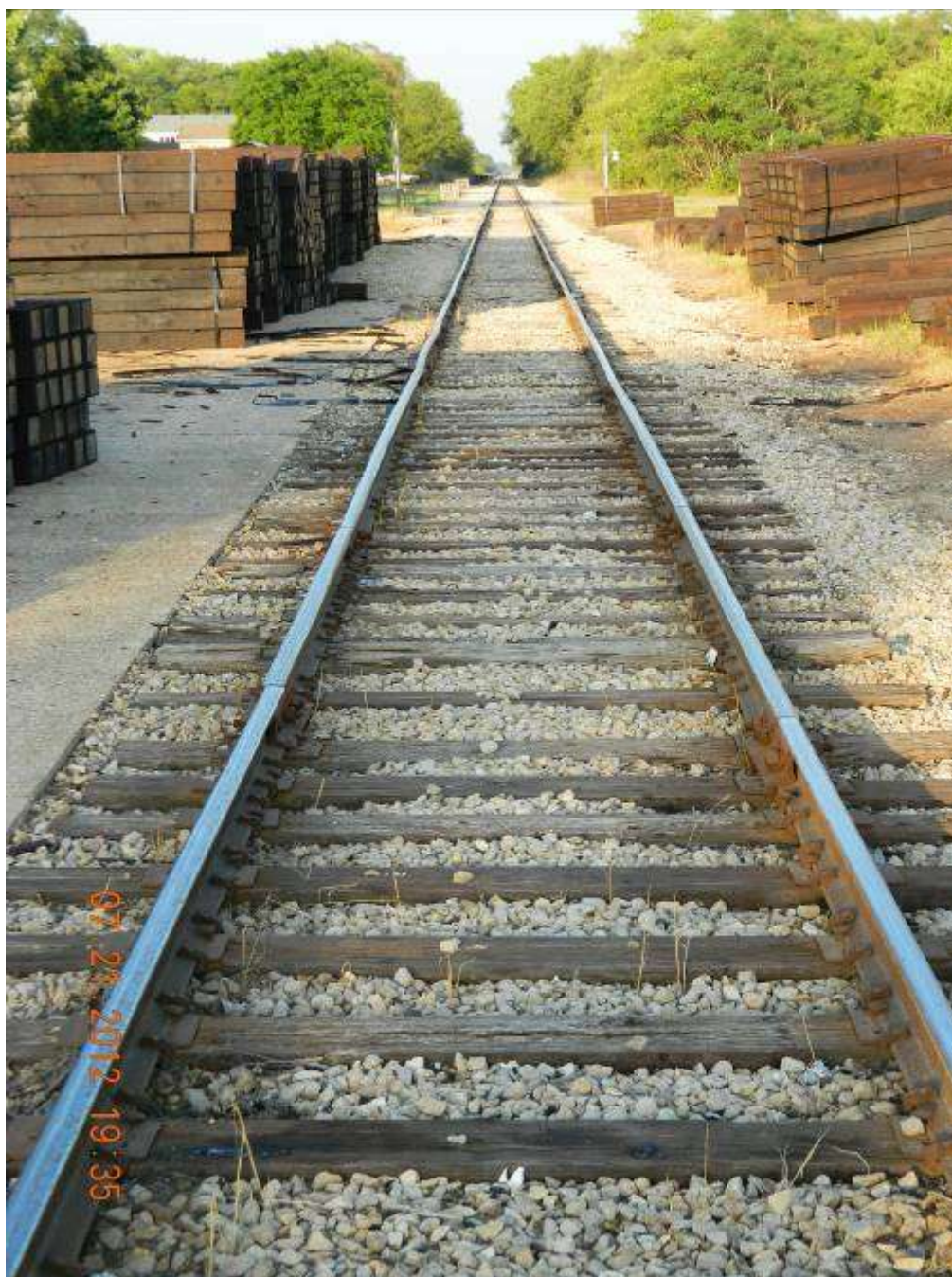




## APPENDIX C: PHOTOS

### Discussion

Below are select photographs that represent each of the Counties studied. While no effort is being made to be all inclusive in this Appendix, it is worth mentioning that all of the pictures that were taken minus the ones that are indecipherable will be put on the DVD ROM under their respective locations.





# Crawford County





## Iowa County





# Richland County





## Vernon County



## APPENDIX D: RESOURCES

### Discussion

The following list is a loose compilation of sources of information, guidance, look-up values, charts, maps, graphs and related reference materials consulted during the course of this study:

- *2012 Emergency Response Guidebook*, U. S. Department of Transportation - 2012
- *DOT Chart 14: "Hazardous Materials Markings, Labeling and Placarding Guide"*, PHH50-0119-1110 – U. S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration

### Links

“*Guidance for Conducting Hazardous Materials Flow Surveys*” [1995]:

[http://www.kansastag.gov/AdvHTML\\_doc\\_upload/Guidance\\_%20for\\_Conducting\\_Commodity\\_Flow\\_Surveys.pdf](http://www.kansastag.gov/AdvHTML_doc_upload/Guidance_%20for_Conducting_Commodity_Flow_Surveys.pdf)

“**Guidance for Conducting Hazardous Materials Flow Studies (Report 3)**” [2011]:

[http://onlinepubs.trb.org/onlinepubs/hmcrp/hmcrp\\_rpt\\_003.pdf](http://onlinepubs.trb.org/onlinepubs/hmcrp/hmcrp_rpt_003.pdf)

#### RAIL:

BNSF - <http://www.bnsf.com/>

WSOR - <http://www.wsorrailroad.com/>

CPR - <http://www.cpr.ca/en/Pages/default.aspx>

FRA - <http://fragis.frasafety.net/GISFRASafety/default.aspx>; <http://www.fra.dot.gov/>

#### ROAD:

TRB - <http://www.trb.org/Main/Home.aspx>

WISDOT - <http://www.dot.wisconsin.gov/>

#### RIVER:

USACE - <http://www.mvp.usace.army.mil/navigation/default.asp?pageid=145>

Wakota CAER - <http://www.wakotacaer.org/>

#### ENERGY:

PHMSA - <http://www.phmsa.dot.gov/>

WI State Energy Dept. - <http://www.energyindependence.wi.gov/>

AIR: - <http://www.airnav.com/>

SPILLS/CRASHES:

NRC - <http://www.nrc.uscg.mil/foia.html>

WDNR - <http://dnr.wi.gov/topic/Spills/>

NHTSA - <http://www.nhtsa.gov/>

FMCSA - <http://www.fmcsa.dot.gov/>

UMRBA - <http://www.umrba.org/index.htm>

WISDOT - <http://www.dot.wisconsin.gov/drivers/drivers/traffic/crash/final-county.htm>

GENERAL:

TRB - <http://www.trb.org/Main/Home.aspx>

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## APPENDIX E: FIELD NOTES

### Discussion

All the field notes that were taken to record Highway and Railroad data are in this Appendix.

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DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	General	Road	53' Van		142 SD	N	7/23/12	0824
X	-	-	Grain	Road	Grain Truck		"	N	"	0826
X	-	-	Pump	"	Gravel		"	N	"	0833
X	-	-	Dairy	"	53' Van		"	S	"	0834
X	-	-	Dairy		Large Tank			N		0837
X	-	-	Dairy		Small Tank			N		0837
X	-	-	General		28' Van			W		0838
X	-	-	General		53' Van		"	W		0839
X	-	-	Benzene	"	30' Van		"	W		0841
X	-	-	Grain	"	Grain			S		0843
X	-	-	General	"	53' Van			W		0844
X	-	-	General		53' Van			N		0845
X	-	-	Dairy		Lg Tanker			N		0846
X	-	-	Liquid		Lg Tanker			W		0847
X	-	-	General		40' Van			E		0848
X	-	-	Red Ex		40' Van			S		0850
X	-	-	General		50' Van			W		0852
X	-	-	General	"	53' Van		"	N	"	0854
X	-	-	Dairy		Sm Tank			N		0855
X	-	-	Debris		Luggage			E		0856

40's may be 45' Van or Box Trailer

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' Van		14&80	S	7/23/12	0859
X	-	-	Gen		53' Van			E	"	0859
	1203	3	Petrochem Dist		Multis-Commode Delivery Truck			N		0900
X	-	-	Gen		53' Van			E		0900
X	-	-	Liquid	"	Lg Tanker		"	N	"	0902
X	-	-	Empty	"	Flatbed Trailer			N		0905
X	-	-	Empty		Lg Truck			S		0905
X	-	-	Gen	"	53' Van		"	W	"	0906
X	-	-	Gen	"	53' Van		"	E	"	0907
X	-	-	Gen	"	53' Van		"	E	"	0908
X	-	-	Gen		53' Van			N		0912
X	-	-	Bulk		Open Trailer			S		0914
X	-	-	Bulk		Open Trailer			S		0914
X	-	-	Liquid		Lg Tanker			W		0914
X	-	-	Bulk Imp		Open Trailer			N		0915
X	-	-	Empty Flat Bed		Flat Bed		"	E		0917
	1203	3	Fuel		Delivery Tr			E		0919
X	-	-	Grain		Grain			S		0919
X	-	-	Lumber		Cargo			N		0920
X	-	-	Gen		53' Van			W		0921

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' Van		14 & 80	E	7/23/12	0922
X	-	-	Gen	"	53' Van		"	S	"	0924
X	-	-	Bulk		Open Trailer			S		0926
X	-	-	Gen		53' Van			W		0926
X	-	-	Gen		53' Van			S		0926
X	-	-	Gen		53' Van			E		0928
X	-	-	Gen		53' Van			S		0928
X	-	-	Gen		53' Van		11	N	11	0932
	NA	8	Corrosive <sup>Dummy</sup>		Van			S		0934
X	-	-	Gen FedEx	"	40' Van			E		0937
X	-	-	Bulk	"	Open Trailer			S	11	0937
X	-	-	Gen		53' Van			E		0939
X	-	-	Gen		53' Van			E		0939
X	-	-	Gen		40' Van			E		0940
X	-	-	Gen		53' Van			S		0941
X	-	-	Gen		53' Van			E		0941
X	-	-	Misc Road		Flat Bed			W		0941
X	-	-	Gen		53' Van			N		0942
X	-	-	Liquid		Lg Tanker			N		0942
					53' Van			E		0944



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Lumber	Road	Flat Bed		14280	W	7/23/12	0945
X	-	-	Gen		53' Van			W		0948
X	-	-	Fed Ex	li	40' Van			N	"	0949
X	-	-	Lumber		Flat Bed			W		0950
X	-	-	Gen		33' Van			N		0951
X	-	-	Bulk		Open Trailer			S		0954
X	-	-	Scrap Iron		Open Trailer			N		0955
X	-	-	Gen		53' Van			N		0956
X	-	-	Log skid		Lg Tanker			N		0957
	N/A	8	Gen		53' Trailer			N		0957
X	-	-	Lumber		Open Trailer			N		0958
X	-	-	Gen		48' Trailer			W		0959
X	-	-	Gen		53' Van			N		1000
X	-	-	Log skid		Lg Tanker			W		1002
	1075	2	Propane		Lg Tanker			N		1003
X	-	-	Log skid		Tanker			E		1003
X	-	-	Gen		53' Van			N		1004
X	-	-	Gen		53' Van			W		1006
X	-	-	Gen		53' Van			N		1009
X	-	-	Bulk		Hopper			E		1010

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Bulk	Road	Hopper		14 & 80	S	7/23/12	1010
X	-	-	Gen		53' Van			S		1010
X	-	-	Gen		53' Van			E		1011
X	-	-	Metal		Open Trailer			N		1012
X	-	-	Gen		53' Van			E		1012
X	-	-	Gen		53' Van			N		1013
X	-	-	Grain		Grain			E		1019
X	-	-	Gen		53' Van			E		1020
	N/A	8	Dairy Supplies		Van			E		1021
X	-	-	Gen		53' Van			N		1022
X	-	-	Gen		53' Van			E		1023
X	-	-	Liq		Lg Tanker			W		1024
X	-	-	Liq		Lg Tanker			W		1024
X	-	-	Liq		Lg Tanker			N		1025
X	-	-	Lumber		Open Trailer			E		1028
X	-	-	Gen		53' Van			S		1029
X	-	-	Empty		Flat Bed			E		1033
X	-	-	Empty		Flat Bed			N		1034
X	-	-	Beverage		40' Van			W		1035
X	-	-	Gen		53' Van			E		1035

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Bulk	Road	Hopper Trailer		14 & 80	S	7/23/12	1036
X	-	-	Logs		Log			N		1040
X	-	-	Bulk		Hopper			N		1041
X	-	-	Gen		53' Van			N		1042
X	-	-	Gen		53' Van			W/S		1043
X	-	-	Logs		Log			N		1045
X	-	-	Dairy		Lg Tanker			N		1047
X	-	-	Dairy		Lg Tanker			N		1048
X	-	-	Gen		53' Trailer			E		1048
X	-	-	Gen <sup>Road</sup>		53' Van			N		1050
X	-	-	Bulk		Open Trailer			S		1052
X	-	-	Gen.		53' Van			E		1053
X	-	-	Gravel		- Dump			N		1054
X	-	-	Gen		53' Van			W		1054
X	-	-	Gen		Dual Pup			E		1055
X	-	-	Liq		Lg Tanker			S		1056
X	-	-	Gen		53' Van			W		1056
X	-	-	Liq		Lg Tanker			W		1059
X	-	-	Liq		Lg Tanker			E		1059
	N/A	8	Gen <sup>MFS</sup>		40' Van			S		1059



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Empty	Road	Flat Bed		14 & 80	N	7/23/12	1100
X	-	✓	Gen		53' Van			S		1101
X	-	-	Gen/Drum		53' Van			N		1102
X	-	-	Liq/Drum		Lg Tanker			N		1104
X	-	-	Gen		24' Pup			N		1111
X	-	-	Gen		53' Open			S		1112
X	-	-	Gen		53' Van			E		1114
X	-	-	Gen Pucks		53' Van			E		1118
	NA	8	Multi Freight Sys		40' Van			W		1120
X	-	-	Gen		53' Van			S		1121
	1203	3	Fuel		Multi Grade			W		1125
X	-	-	Gen		53' Van			N		1126
X	-	-	Gen		53' Van			W		1127
X	-	-	Gen	"	53' Van		4	W	"	1131
X	-	-	Gen	"	53' Van			E		1131
X	-	-	Liq/Drum	"	Lg Tanker			N		1132
X	-	-	Liq	"	Lg Tanker			W		1133
X	-	-	Gen	"	53' Van			N		1133
X	-	-	Gen	"	53' Van			S		1135
X	-	-	Gen	"	Conway Pup			E		1140



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' van		14 & 80	N	7/23/12	1140
X	-	-	Gen	"	53' Van		"	N	"	1145
X	-	-	Empty		Log			S		1145
X	-	-	Gen		53' Van			N		1147
X	-	-	Bulk		Hopper Open Trailer			N		1153
X	-	-	Log/Empty		Log			S		1155
X	-	-	Log/Dairy		Log Tanker			N		1155
	NA	8	Agri Dairy		Van			N		1156
X	-	+	Gen		53' Van			N		1202
X	-	-	Granular		Hopper 3-4H			E		1202
	1943	3	Fuel		Multi Grade			W		1203
X	-	-	Gen		53' Van			E		1206
X	-	-	Gen		53' Van			N		1206
X	-	-	Gen		53' Van			N		1207
X	-	-	Gen		53' Van			E		1209
X	-	-	Gen		53' Van			E		1214
X	-	-	Empty		Flat Bed			E		1215
X	-	-	Gen		53' Van			N		1220
X	-	-	Bulk		Hopper Open Trailer			N		1222
X	-	-	Gen		53' Van			E		1223

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland County

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' Van Trailer		14 & 80	E	7/23/12	1225
	Oxygen	2	Oxygen & Non-Flammable Gas		Van			S		1227
	NR Gas	2			Am-Gas Ammonia					
X	-	-	Gen		24' Rmp			N		1228
X	-	-	Concrete Blocks		Flat Bed			E		1236
X	-	-	Liq / Dairy		Lg Tanker			N		1237
	1075	2	Propane		Sattler Truck			S		1239
X	-	-	Empty		Flat Bed			S		1242
X	-	-	Gen		53' Van			S		1244
X	-	-	Gen		53' Van			E		1244
X	-	-	Gen / Milk		53' Van			S		1244
	1017, 1778 2693, 1291	8/2	Composites		Van			W		1247
X	-	-	Gen		53'			N		1247
X	-	-	Lumber		53'			W		1248
X	-	-	Blocks		Flat Bed			E		1252
X	-	-	Food stuffs		50' Van			N		1253
X	-	-	Dairy		Lg Tanker			N		1256
X	-	-	Gen		53' Van			E		1256
X	-	-	Liq		Lg Tanker			W		1258
X	-	-	Empty		Flat Bed			E		1259

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen <sup>Hwy 14</sup> <del>Trip</del>	Road	50' Specialty Van		14 & 80	W	7/23/12	1302
X	-	-	Liq/Dumy		Lg Tanker			N		1303
X	-	-	Gen		53' Van			S		1304
X	-	-	Bulk		2 cell Hopper			N		1304
X	-	-	Liq		Lg Tanker			S		1307
X	-	-	Bulk		2 cell Hopper			N		1312
X	-	-	Gen		53' Van			S		1316
X	-	-	Food		50' Refr			N		1317
X	-	-	Gen		40' Van			S		1318
X	-	-	Liq		Hvy Lrg Tanker			E		1319
X	-	-	Bulk		Open Trailer			N		1324
X	-	-	Granular		3 cell Hopper			S		1324
X	-	-	Gen		53' Van			E		1324
X	-	-	Gen		53' Van			S		1331
X	-	-	Bulk		Open Trailer			N		1331
X	-	-	Bulk		2 cell Hopper			S		1331
X	-	-	Gen		53' Van			N		1332
X	-	-	Food		53' <sup>Refr</sup> Van			S		1334
X	-	-	Gen		53' Van			E		1334
X	-	-	Gen		53' Van			W		1334



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Tamped	Road	Flat Bed		14 & 80	S	7/23/12	1336
X	-	-	Logs		Log			N		1336
X	-	-	Gen		40' Van			E		1338
X	-	-	Food/Gen		53' Refrig Van			S		1343
X	-	-	Gen		53' Van			N		1344
X	-	-	Bulk		2 cell Hopper			N		1345
X	-	-	Gen		53' Van			N		1346
X	-	-	Gen		53' Van			E		1346
X	-	-	Liq.		Lg Tanker			S		1346
X	-	-	Gen		53' Refrig Van			W		1354
X	-	-	Gen		53' Van			N		1356
X	-	-	Gen		53' Van			N		1403
X	-	-	Hay/Bales		Flat Bed			E		1407
X	-	-	Gen/Food		53' Van			N		1410
X	-	-	Gen/Food		53' Van			N		1410
X	-	-	Liq.		Lg Tanker			W		1413
X	-	-	Gen		53' Refrig Van			E		1415
X	-	-	Bulk		Open Trailer			N		1415
X	-	-	Liq.		Lg Tanker			N		1417
X	-	-	Empty		Flat Bed			N		1421



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Rock

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' Van		14 & 80	E	7/23/12	1427
X	-	-	Bulk		Open Trailer			N		1422
X	-	-	Liq		Heavy Tanker			E		1428
X	-	-	Liq.		Lg. Tanker			E		1429
X	-	-	Gen		53' Van			E		1434
	1203	3	Fuel/Gasln		MultiGrade			N		1436
X	-	-	Gen		53' Van			S		1440
X	-	-	Gen		53' Van			S		1448
X	-	-	Liq		Lg Tanker			S		1457
X	-	-	Gen/Dairy		53' Van			E		1459
X	-	-	Tapped		Flat Bed	Rockl		N		1503
X	-	-	Gen		53' Van			E		1503
X	-	-	Gen		53' Van			E		1510
	1203	3	Gasoline		MultiGrade			W		1513
X	-	-	Gen		53' Van			W		1518
X	-	-	Gen		Dual Pup Continer			N		1521
X	-	-	Logs		Log			N		1522
X	-	-	Gen		53' Van			W		1522
X	-	-	Gen		53' van			E		1523
X	-	-	Food/Gen		53' van	Rockl		S		1524
X	-	-	Liq		Lg Tanker			W		1524

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' Van			E	7/23/12	1525
X	-	-	Gen		53' Van			N		1528
X	-	-	Rail Tires		Flat Bed			E		1534
X	-	-	Gen		53' Van			W		1536
X	-	-	Gen		53' Van			S		1537
X	-	-	Gen		53' Van			E		1538
X	-	-	Liq		Lg Tanker			N		1539
X	-	-	Gen		53' Van			N		1540
X	-	-	Gen		53' van			W		1545
X	-	-	Liq		Lg Tanker			S		1549
X	-	-	Liq		Heavy Lg Tanker			W		1552
X	-	-	Bulk		Auger Bulk			S		1552
X	-	-	Empty		Flat Bed			N		1555
X	-	-	Molasses		Lg Tanker			S		1558
X	-	-	Liq		Lg Tanker			N		1559
X	-	-	Empty		Flat Bed			S		1603
X	-	-	Gen		53' Van			E		1609
X	-	-	Gen		53' Van			N		1609
X	-	-	Gen		53' Van			E		1613
	1987	3	Flam Liq		Mulch Grader			W		1615

## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Bulk		2 cell Hopper		14 & 80	N	7/23/12	1616
X	-	-	Gen		53' Van			S		1617
	NA	8	Corrosives		Van			W		1624
X	-	-	Liq		Lg Tanker			N		1629
J	-	-	Empty		Lrg			S		1630
J	-	-	Flat Bed Load		Flat Bed			E		1632
X	-	-	Gen		53' Van			N		1638
X	-	-	Gen		53' van			S		1644
X	-	-	Gen		40' Van			N		1647
X	-	-	Empty		Flat Bed			S		1652
	1203	3	Gasoline		Multi Grade			E		1704
J	-	-	Pallet Lumber		Flat Bed			S		1716
X	-	-	Food		53' Van			N		1719
X	-	-	Lubricants		Van			E		1723
J	-	-	General		53' Van			N		1726
X	-	-	Food		53' Van			N		1731
X	-	-	Gen		53' Van			E		1733
X	-	-	Granular		3 cell Hopper			W		1734
	1203	3	Gasoline		Multi Grade			S		1740
X	-	-	Gen		53' Van			E		1741



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	Gen	Road	53' Van		14 & 80	E	7/23/12	1743
X	-	-	Liq		Lg Tanker			W		1746
X	-	-	Liquid Feeds		Lg Tanker			N		1751
X	-	-	Liq		Hvy Lg Tanker			W		1758
X	-	-	Empty		Equip Flat Bed			W		1801
X	-	-	General		53' Van			E		1801
X	-	-	Empty		Flat Bed			N		1806
X	-	-	Round Bales		Flat Bed			S		1816
X	-	-	"		"			S		1816
X	-	-	"		"			S		1816
X	-	-	Logs		Log			N		1817
X	-	-	Gen		53' Van			N		1817
X	-	-	Cattle		Cattle			E		1818
X	-	-	General		53' Van			S		1826
X	-	-	General		53' Van			E		1835
X	-	-	General		53' Van			E		1836
X	-	-	Cattle		Cattle			E		1837
X	-	-	Tires		53' Van			E		1844
X	-	-	Gen		53' Van			S		1901
X	-	-	Gen		53' Van			E		1918



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	General		53' Van		14880	S	7/23/12	1928
X	-	-	Liq./Dairy		Lg Tanker			N		1929
X	-	-	Flammable Product		Open Trailer			W		1935
X	-	-	Liquid (hazard)		Lg Tanker			S		1948
	N/A	3	Flam. Liquid		Lg Tanker			W		2005
X	-	-	Cars		Car Carrier			E		2005
X	-	-	Granular		3 cell Hopper			E		2025
X	-	-	General		53' Van			N		2036
									END	2041

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Richland Center

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
-	-	-	-	Road	-	-	14 E 80	-	7/25/12	0555
	N/A	2	Flammable Gas non-Flammable Gas		Gas Cylinder Delivery			N		0633
	N/A	2	Budger Welding		Return Trip			E		0654
	1073	2	Liq. Oxygen		Truck Trailer			N		0752
	1203	3	Gasoline		Multi-Grade			W		0752
	LD, 1943 1942	1, 3 5.1	Explosives Combustibles		Explosives			N		0802
	N/A	8	unknown		53' Van			S		0830
	1075	2	Propane		Sm Delivery			W		0832
	N/A	8	Agricultural		Van			S		0854
	1075	2	Propane		Lg Tanker			S		0928
	1914	8	Liquid Unknown		Lg Tanker			N		0942
	Dangerous Corrosive, 1791	8, 8	Mixed Load		53' Reefer Van			N		1017
	N/A	3	Unknown		53' Van			E		1106
	1075	2	Propane		Small Delivery			E		1116
	1203	3	Gasoline		small Delivery			S		1142
	N/A	3	Flammable		53' Van			S		1143
	2874	6	Poison F/A		Lg Tanker			W		1223

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

27, Blackhawk Ave.

CITY: Potosi du Chen, 35, Marguerite Rd.

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
X	-	-	General	Rail		Flint Can (300) Intermodal	Blackhawk Crossing	N	7/31/12	0530
	1267	3	Liquid	Rail		Tank (250)	"	S		0534
X	-	-	General	Rail		Flint Can Intermodal (200)	"	N		0540
X	-	-	General	Rail		Flint Can Intermodal (100)	"	S		0638
X	-	-	Gen	Rail		F.C.I. (100)	"	N		0656
	Mixed	3.8	Liquid, Bulk Mixed	Rail		Tanker Hopper (75)	"	N		0703
	1267	3	Liquid	Rail		Tank (200)	"	N		0715
X	-	-	General	Rail		FCI (150)	"	S		0732
	3257		Liquid	Road	Tanker		Marguerite	N		0801
X	-	-	General	Rail		FCI (100)	Blackhawk	S		0930
X	-	-	Bulk	Rail		3 cell Hopper (125)	"	N		0945
	1075	2	Propane	Road	Delivery		27 & 35	N		1015
	1267	3	Liquid	Rail		Tanker (200)	Blackhawk	N		1051
	1203	3	Liquid	Road	Delivery		27 & 35	S		1116
	3257		Liquid	Road	Tanker		27 & 35	S		1130
	1203	3	Liquid	Road	MultiGrande		"	N		1137
	1075	2	Propane	Road	Tank Setter		"	S		1138
	1203	3	Liquid	Road	MultiGrande		"	S		1209
	1993	3	Liquid	Road	MultiGrande		"	N		1215
	1203	3	Liquid	Road	Delivery		"	E		1226



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Prairie du Chien, 27 & 35

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	N/A	3	General	Road	Dual App FedEx		27 & 35	N	7/31/12	1234
	1203	3	Gasoline	Road	Delivery		27 & 35	S		1345
	1267	3		Rail		Tank (200)	Blackhawk	N		1358
	1267, 1885 1993	3, 8	Liquid, Tank & mixed	Rail		Grain, Box, Tank 2 cell hopper (150)	"	S		1359
X	-	-	Grain	Rail		Hopper - coal (200)	"	N		1419
X	-	-	Grain	Rail		Mixed; 5 cell hopper (250)	"	S		1431
	1805, 1267	3, 3	Liquid mixed	Rail		Mixed (500)	"	S		1448
	1493, 1457 1267	3, 3 3	Liquid mixed	Rail		Mixed (150)	"	N		1516
	1075	2	Propane	Road	Delivery		Marysville	S		1523
	N/A	2, 2	Oxy. Acetylene	Road	Delivery Air Gas		27 & 35	N		1530
X	-	-	Gen. Mixed	Rail		Mixed (30)	Blackhawk	N		1607
X	-	-	Intermodal	Rail		FCI (300)	"	S		1620
X	-	-	Grain	Rail		Hopper	"	N		1622
	1760, 1493 3266	3, 3	General	Rail		Box, Lumber, Hopper, Tank, etc	"	S		1641
X	-	-	Intermodal	Rail		FCI (100)	"	N		1658
X	-	-	Coal	Rail		Bottom Hopper Gondola	"	S		1710
X	-	-	Intermodal	Rail		FCI (100)	"	S		1725
X	-	-	Grain	Rail		4 Cell Hopper (250)	"	S		1740
A	-	-	General, Bulk mixed	Rail		Tank, Hopper, Box	"	S		1807
	1267, 2312	3 3	Concentrators Pipe	Rail		Tank, Hopper, Box	"	N		1855



## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Princeton, N.J. 27 & 35

[illegible]

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Prarie du Chien 27 - Blackhawk  
35 - Muskego

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	1203	3	Gasoline	Road	MultiGrade		27 & 35	N	8/01/12	0640
	1203	3	Gasoline	Road	MultiGrade		27 & 35	S		0720
	3257		Liquid	"	Tanker		"	N		0728
	1077		Liquid	"	Tanker		"	N		0821
	N/A	2	Flam/Non-Flam Flammable Gas	Road	Delivery Van		27 & 35	N		0835
X	-	-	Intermediate General	Rail		FCI (150)	Blackhawk	N		0837
	N/A	2	CO <sub>2</sub>	Road	Tank/Van		27 & 35	S		0914
	1977		Liquid	Road	Tanker		27 & 35	S		0915
X	-	-	Gen. Bulk	Rail		Hopper (200)	Blackhawk	S		0933
	3257 (40)		Liquid Fuels	Rail		Tank, Hopper Box, Tank	"	S		1008
	1267, 1075 1987, 1203		& Corrosives				- - - - -	- - - - -	- - - - -	- - - - -
	1824	3					- - - - -	- - - - -	- - - - -	- - - - -
	N/A	2	Flam/Non-Flam Wetting Gases	Road	Delivery Van		27 & 35	E		1013
	N/A	2	CO <sub>2</sub>	Road	Tank/Van		Blackhawk	W		1014
X	-	-	Intermediate General	Rail		FCI (150)	Blackhawk	S		1020
X	-	-	General Bulk	Rail		Hopper (225)	Blackhawk	N		1025
	1203	3	Gasoline	Road	MultiGrade		27 & 35	N		1028
	3257		Liquid	Road	Tanker		27 & 35	N		1105
	2924	3	Liquid	Road	Tanker		27 & 35	S		1110
	1203	3	Gasoline	Road	Delivery Truck		27 & 35	S		1133

## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Providence du Choc 27- Blackhawk  
33- Marquette

[illegible]



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Genua - Hwy 35

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	1075, 1203, 1267	3	Liquid	Rail		Tanker, Box, hopper, etc	Genua Boat Landing Tobacco warehouse	S	8/02/12	0820
	1203	3	Gasoline	Road	MultiGrade		"	S		0912
	3257		Liquid	Road	Tank		"	S		0920
X	-	-	General	Rail		FCI (90)	"	S		0926
	1267	3	Liquid	Rail		Tank (200)	"	S		0949
	1075	2	Propane	Road	Cylindrical Delivery Tank		"	S		1036
	1075	2	Propane	Road	Delivery (Tanker)		"	S		1036
X	-	-	Grain	Rail		3-cell hopper (200)	"	N		1046
	1075, 1987	2, 3	Liquid, Bulky, Lumber, General	Rail		Tanker, Box, Ranch Hopper	"	N		1059
Y	-	-	Intermodal	Rail		FCI (125)	"	N		1113
X	-	-	Intermodal	Rail		FCI (75)	"	S		1151
	3257		Liquid	Road	Tanker		"	N		1202
	1075	2	Propane	Road	Delivery Tank		"	S		1239
X	-	-	Intermodal	Rail		FCI (200)	"	S		1302
	Non-Film	2	Gas	Road	53' Van		"	N		1310
	1075	2	Propane	Road	Tank Sifter		"	N		1318
Y	-	-	Grain	Rail		3-cell Hopper (200)	"	S		1343
	3257		Liquid	Road	Tank		"	S		1346
X	-	-	Empty	Rail		Flat Cars (175)	"	S		1410
	1075	2	Propane	Road	Delivery Tank		"	N		1435



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Genoa - Hwy 35

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	3257		Hot Liquid	Road	Tanker		Genoa Tobacco Shed	S	8/02/12	1445
X	-	-	Intermodal	Rail		FCI (100)	"	S		1449
	1075	2	Propane	Road	Delivery Tanker		"	N		1501
X	-	-	Intermodal	Rail		FCI (125)	"	S		1511
	1267, 1075	3/2	Liquid, Bulk	Rail		Tank, Box, Hoppers, Mixed (75)	"	N		1528
	2187, 1987, 1267	2/3	Liquid, Bulk	Rail		Tank, Box, Hopper (80)	"	S		1531
X	-	-	Coal	Rail		Hopper (300)	"	N		1537
	3257		Hot Liquid	Road	Tanker		"	S		1540
	1267, 1136, 1305, 215	3/8	Liquids, Bulk, Lumber, mixed	Rail		Tank, Box, Hoppers, mixed (100)	"	S		1632
X	-	-	Intermodal	Rail		FCI (150)	"	S		1713
	N/A	2	Flammable non-Flammable Gas	Road	Cylinder Delivery		"	N		1718
	1160, 1170, 1261, 3395	3/2	Liquid, Gas, mixed	Rail		Tank, Box, Hoppers, mixed (80)	"	N		1748
X	-	-	Intermodal	Rail		FCI (175)	"	N		1758
	1993, 1075, 1267	3/2	Liquid, Bulk, Lumber, mixed	Rail		Mixed (100)	"	N		1832
X	-	-	Auto Converters & Intermodal	Rail		FCI (175)	"	N		1922
X	-	-	Gen, Bulk	Rail		Hopper (200)	"	N		2024
	3257		Lumber, Liquids mixed	Rail		Mixed (175)	"	S		2025
	3257		Hot Liquid	Road	Tanker		"	N		2058
	N/A	3	Liquid, Bulk, Lumber	Rail		Tank, Hoppers (80)	"	S		2101
	N/A	2/3	Liquid, Bulk	Rail		Mixed (100)	"	N		2104

## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Viroqua, Downtown

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	3257		Liquid	Road	Tanker		Main & Decker	N	8/07/12	0632
	1203	3	Gasoline		Multi Grade			N		0658
	1999	3	Liquid		Tanker			S		0747
	1203	3	Gasoline		Multi Grade			N		0806
	1203	3	Gasoline		Multi Grade			N		0823
	1203	3	Gasoline		Multi Grade			S		0837
	3257		Liquid		Tanker			N		0839
	1075	2	Propane		Delivery			W		0851
	1203	3	Gasoline		Delivery			E		0922
	1005	2	Liquid		Tanker			N		0923
	1203	3	Gasoline		Delivery			S		0938
	1075	2	Propane		Delivery			S		0953
	1999	3	Liquid		Tanker			N		1003
	1203	3	Gasoline		Delivery			N		1016
	1075	2	Propane		Tanker			N		1037
	1993	3	Liquid		Tanker			N		1100
	N/A	2	Flammable non-Flam.		Delivery <sup>Asn Gas</sup>			W		1102
	1075	2	Propane		Tank Setter			W		1103
	3257		Liquid		Tanker			N		1104
	1203	3	Gasoline		Multi Grade			S		1105

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Viroqua, Wisconsin

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	2187	2	Carbon Dioxide	Road	Tanker		Main & Decker	N	8/07/12	1122
	N/A	2	Welding Gases		Delivery			S		1146
	1203	3	Gaseous		Delivery			E		1159
	1493, 3295 Oxi, Comp, Flamm	5, 8 3	Gen. Mixed		53' Van			N		1201
	1075	2	Specialized		Truck & Trailer			S		1220
	1493 Dangerous	3	Mixed Flamm.		53' Van			S		1246
	1075	2	Propane		Delivery			N		1323
	1075	2	Propane		Delivery			S		1403
	1493, 3295	3	Solvents		53' Van			S		1425
	N/A	3, 4 6	Mixed		53' Van			N		1428
	1075	2	Propane		Delivery			N		1456
	N/A	8	General		53' Van			N		1507
	N/A	2, 8	General Mixed		53' Van			E		1535
	2187	2	Carbon Dioxide		Tanker			S		1605
	1999		Liquid (Hrt)		Small Tank			N		1726
	3082	9	Liquid		Tanker			N		1814



## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Vernon, Downtown

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	2187	2	Carbon Dioxide	Road	Tanker		Main B Decker	S	8/08/12	0600
	2187	2	CO <sub>2</sub>		Tanker			S		0727
	1203	3	Gasoline		Multi Grade			N		0753
	1993	3	Liquid		Multi Grade			N		0822
	1075	2	Propane		Delivery			W		0830
	1203	3	Gasoline		Multi Grade			N		0845
	N/A	8	General		53' Van			S		0853
	1203	3	Gasoline		Multi Grade			S		0903
	1075	2	Propane		Tank Trailer			N		0924
	1203	3	Gasoline		Multi Grade			S		0931
	1075	2	Propane		Tanker			N		0935
	3257		Hot Liquid		Tanker			N		0952
	1999	3	Hot Liquid		Tanker			S		1009
	1075	2	Propane		Tanker			S		1052
	3082	9	Liquid		Tanker			S		1052
	1824, 3266	8	Liquid		Tanker			S		1053
	2187	2	CO <sub>2</sub>		Tanker			N		1102
	N/A	8	General		53' Van			S		1219
	N/A	2	Oxygen		Med. Supply Van			W		1304
	1075	2	Propane		Delivery			W		1352



## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Vinograd, Downtown

[illegible]

## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Dodgeville, 18&35

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	14/A	1	Explosives	Road	Specialized		18&23	N	8/09/12	0605
	1203	3	Gasoline		MultiGrade			E		0615
	1075	2	Propane		Tanker			N		0642
	1830, 1824 1241	8	Mixed		Hydrate 53'			—		—
	Flam, Corry, OXI	3, 8, 5.1	Liquids & Solids		Van			W		0700
	1203	3	Gasoline		MultiGrade			W		0732
	1203	3	Gasoline		M.G.			E		0740
	1993	3	Liquid		M.G.			N		0741
	1274, 1276, 1173, 1993	3	Liquid		Tanker Hydrate			E		0755
	1791	8	Liquid		Tanker			S		0823
	1203	3	Gasoline		M.G.			N		0908
	1203	3	Gasoline		Delivery			S, W		0917
	1791, Corry, OXI	8, 5.1	Liquids		Flat Bed Van			W		1005
	N/A	2	Welding Gases		Delivery			W		1047
	1203	3	Gasoline		Delivery			N		1048
	1210	3	General		53' Van			W		1049
	1987	3	Liquid		M.G.			E		1053
	1977	2	Liquid		Tanker			W		1116
	1203	3	Gasoline		M.G.			E		1117
	1203	3	Gasoline		M.G.			W		1130

DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Dodgeville, 18 & 33

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	1203	3	Gasoline	Road	M.G.		US Hwy 18 & 23	W	8/09/12	1139
	1203	3	Gasoline		M.G.			W		1210
	1203	3	Gasoline		M.G.			W		1221
	1075	2	Propane		Delivery			W		1244
	1203	3	Gasoline		M.G.			W		1320
	1203	3	Gasoline		M.G.			W		1342
	3139, Expl	5.1, 1.1D	Explosives		Specialized			E		1343
	1203	3	Gasoline		M.G.			E		1343
	1203	3	Gasoline		Delivery			E		1353
	1977	2	Liquid Nitrogen		Tanker			W		1409
	1203	3	Gasoline		M.G.			N		1417
	Dangerous	8	General		Dual Pup			W		1442
	1203	3	Gasoline		M.G.			W		1447
	1075	2	Propane		Delivery			N		1453
	1760	8	Gen. Ag.		Delivery			E		1623
	1993	3	Liquids		M.G.			W		1634
	1977	2	Liquid Nitrogen		Tanker			E		1727
	1977	2	Liquid Nitrogen		Tanker			E		1746
	1977	2	Liq. Nitrogen		Pickup			W		1853



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Dodgeville, Hwy 151

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	S.I. 1993, 11D	1.1, 5.1 3	Explosives	Road	Specialized		R Equipment	N	8/10/12	0600
	1203	3	Gasoline		MG			S		0613
	1203	3	Gasoline		MG			S		0615
	1993	3	Liquid		MG			S		0627
	1943, 1993 1.1D	3, 5.1 1.1	Explosives		Specialized			N		0638
	1203	3	Gasoline		MG			N		0645
	1203	3	Gasoline		MG			N		0702
	1203	3	Gasoline		MG			S		0728
	1977	2	Liq. Nitrogen		Tanker			S		0736
	1203	3	Gasoline		MG			N		0740
	Dangerous		Mixed HazMat		53' Van			N		0805
	1203	3	Gasoline		MG			N		0813
	1203	3	Gasoline		MG			S		0821
	1203	3	Gasoline		MG			N		0840
	1977	2	Liq. Nitrogen		Pickup <sup>Acetate Containers</sup>			N		0850
	1203	3	Gasoline		MG			N		0859
	1203	3	Gasoline		MG			N		0904
	Explosives	1.1D	Explosives		Van			S		0920
	1203	3	Gasoline		MG			S		0948
	1075	2	Propane		Specialty Small Tank			S		1016



DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Dodgeville, Hwy 151

Non-Haz	Placard #	Class	Material or Category	Mode	Truck Type	Rail Car Type	Point Location	Direction of Travel	Date	Time
	1203	3	Gasoline	Road	MG		R Equipment	N	8/10/12	1031
	1203	3	Gasoline		MG			N		1031
	1203	3	Gasoline		MG			N		1048
	N/A	6	Ag. Supplies		53' Van			N		1030
	N/A	8	General		Van			S		1123
	2821	6	Liquid		Tanker			S		1136
	1203	3	Gasoline		MG			S		1142
		3,6,8,9	Haz Waste		53' Van <sup>ELCA's Marked</sup>			S		1155
	N/A	8	General		53' Van			S		1219
	2187	2	CO <sub>2</sub>		Tanker			S		1231
	1824	8	Liquid		Tanker			N		1243
	1203	3	Gasoline		MG			S		1256
	1203	3	Gasoline		MG			S		1314
	1203	3	Gasoline		MG			N		1324
	1203	3	Gasoline		MG			S		1341
	1443, 1442 1410	1,3,5.1	Explosives		Specialized			S		1404
		3	General		53' Van			S		1408
	1203	3	Gasoline		MG			S		1409
	1203	3	Gasoline		MG			S		1425
	3257		Liquid		Tanker			N		1514

## DOT ROADWAY/RAILWAY DATA COLLECTION FORM

CITY: Dodgeville, Hwy 151[illegible]

## Non-Hazmat Truck Count

Location: 14880, Richland Center Date: 7/25/12 Time: Start 0555 | End 1230

53' Van General	
53' Van Reefer	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	1 <sup>Refrigerator</sup>
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

### Non-Hazmat Truck Count

Location: Prairie Dog Creek Wildlife Refuge  
13400 E. Main St. #100  
Date: 7/31/12 Start Time: 0530 End Time: 2106

53' Van General	
53' Van Reefer	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	



## Non-Hazmat Truck Count

Location: *Proctor in Chiles - Walgreens* Date: *8/01/12* Start Time: *0600* End Time: *1600*  
*27-Blackhawk; 35-Marysville*

53' Van General	
53' Van Reefer	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

## Non-Hazmat Truck Count

Location: Genco Tobacco Warehouse

Date: 8/02/12

Start Time: 0800

End Time: 2100

53' Van General	
53' Van Reefer	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

### Non-Hazmat Truck Count

Location: Vroegna; Main & Decker

Date: 8/07/12

Start Time: 0525

End Time: 2030

53' Van General	
28' Van 53' Van Reefer	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
1, 2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

## Non-Hazmat Truck Count

Location: *Viroqua, Main & Decker* Date: *8/08/12* Start Time: *0505* End Time: *1800*

53' Van General	
53' Van Reefer <i>Pup 23' &amp; Van</i>	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	



## Non-Hazmat Truck Count

Location: Dodgeville, 18 & 23

Date: 8/09/12

Start Time: 0545

End Time: 1930

53' Van General	 
53' Van Reefer 28' end Van	
53' Van Food	
40' - 48' Van General	 Intermodal
Small Van/Truck	 
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

## Non-Hazmat Truck Count

Location: Dodgeville, R Equipment Date: 8/10/12 Start Time: 0530 End Time: -

53' Van General	
53' Van Reefer 28' and Van	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

1321 - 081012

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## Non-Hazmat Truck Count

Location: Dodgeville, R Equipment

Date: 8/10/12

Start Time: 0530

End Time: 2030

53' Van General	
53' Van Reefer 28' and Van	
53' Van Food	
40' - 48' Van General	
Small Van/Truck	
28' Pup Single	
28' Pup Dual	
Open Box Bulk	
Open Box Specialty	
Grain (Auger)	
2-Cell Hopper	
3, 4-Cell Hopper	
Rack Truck (Logs)	
Flat Bed	
Low Boy	
Large Tanker	
Small Tanker	
Chemical Tanker	
Heavy Liquids Tanker	
Cattle Truck	
Car Carrier	
Other	

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