County Hazardous Material Flow study Date/Year



Table of Contents

Pages:	Subject:
3	Statement of purpose
4	Study Area
5	Surrounding communities
6-7	transportation summaries
8-17	highway analysis
18-19	railroad analysis
20-25	pipeline analysis
26	conclusion

Statement of Purpose

This hazardous material transportation flow study was carried out within the boundaries of _____ County, Missouri. The data in this study will enhance all _____ County Fire Fighters, emergency planning abilities, and enable the department to increase the effectiveness of their emergency response capabilities to hazardous material transportation events.

____ County has _____ fire departments in the county. (List each)

The purpose of this study is as follows:

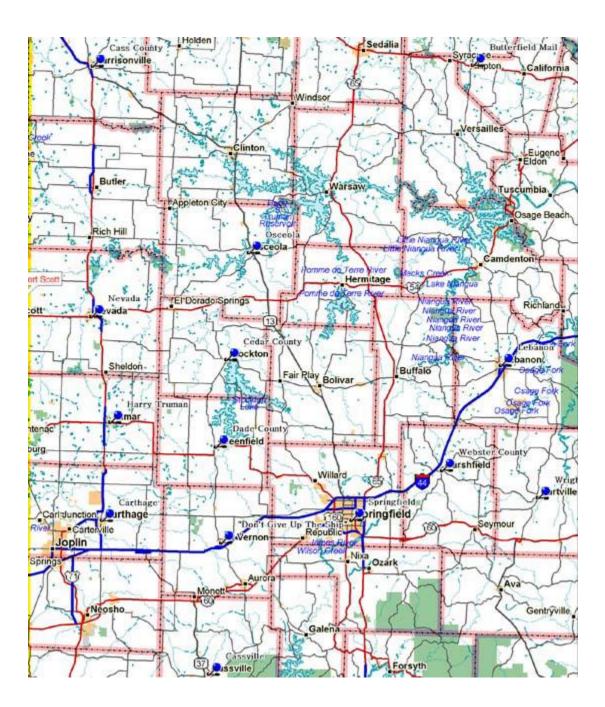
- 1. Identify modes of shipment of hazardous materials that either originate in or are destined to pass through _____ County.
- 2. Identify the routes which involve the greatest flow.
- **3.** Focus on roadway intersections that attributed to the highest occurrences of accidents within the county.
- 4. Get general feel for the amount of hazardous materials that passes through the county over a defined period of time.

Study Area

The area of analysis for this flow study was _____ County. The analysis teams set up in (Location) . _____ county has a population of _____ with the majority of population and traffic in these areas. The land use is mainly agriculture with small family farms and light industrial.



Surrounding Communities Map



Transportation Summary

<u>Highway</u>

Transportation through _____ County is in several forms with the most common mode of transport of hazardous material, or materials in general, being highway.

Most commodities travel on State Highway (list highways). These highways run (through where).

<u>Rail</u>

(Example) Rail service in the county runs across southern end of county. Burlington Northern is the service company. The exposure to rail adds a lot of hazardous material in our county. Burlington Northern has sent current flow study for out county. Burlington Northern, is to be notified immediately of any issues as they have hazard teams in our area. In an event of wreck and/or spill we would use mutual aide from Joplin and/or Springfield. Our fire departments do training to be familiar with hazards that are possible, but do not have equipment for full scale hazardous situation.

<u>Pipeline</u>

There are ____ different pipelines running in _____ County.

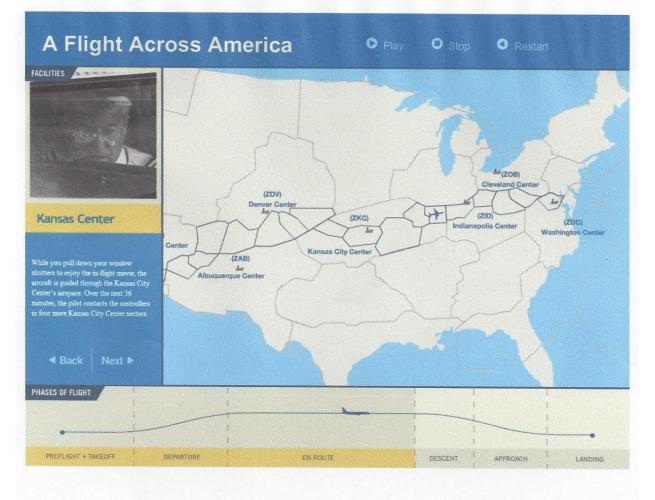
<u>Water</u>

(Example) For the purpose of this hazardous flow study we will not be including our waterways as supporting transportation. Our waterways are areas of concern for hazardous contamination. Stockton Lake is our biggest water asset and creeks/rivers that feed into it such as, Sons Creek, Sac River, and Turnback Creek.

<u>Air</u>

<u>County does not have a major airport.</u> County is in the main flight path for commercial flight transportation. There are a couple small areas in the county small planes access for individual use. Training on how to handle aircraft emergencies would be low for our area.





Page last modified: November 27, 2015 9:58:40 AM EST

HIGHWAY ANALYSIS



Highway Transportation

This section will highlight our findings of both hazardous and non-hazardous, through _____ County, as it pertains to movement on our roadways.

Nationally, the Office of Motor Carriers states that 7.2% of trucks transported amounts of hazmat large enough to require a placard warning that the truck was transporting hazmat. There is estimated over 3 million licensed Semi Trucks on US highways. It is estimated that truck move roughly 67% of the nations freight by weight according to American Trucking Association. County Volunteer Fire Departments would be challenged by an emergency involving a multi axle vehicle used for transport of commodities (including farm vehicles), since they carry several hundred gallons of fuel and gallons of lubrication oil to just move the vehicle down the road.

In the last 3 years, from analyzing the STARS report from the State Highway Patrol, there have not been any hazmat incidents in our county. See attached for STARS report and 2013 MoDot Traffic Volume.

The quantites of chemicals that move through our county on the highways are for the most part use in agriculture. The top 3 items as sheer amount are:

- 1. Fuels
- 2. Farm fertilizers
- 3. Other Farm Chemicals (lime, other)

The <u>County Volunteer Fire Departments set up in July to conduct this flow</u> study. The intersections studied were:

- 1. Hwy 160 @ junction of Hwy 97
- 2. Hwy 39 @ junction of BB Hwy

STANDARD TANK	VACUUM TA DF	RY BULK 1 STANDARD V	AN REFRIGERAT	ED SERVICE/U	ITILII FLATBED	O&STEPBEL OTHER TR	UCKS LOCATION	TIME
DAY1 3-1203		1 6 (Placard bu	t not	1	7	3	21 Hwy160/97	18:00 to 00:00
DAY 2 3-1203,2-1075,1-118	3 Cement 7 0	GRAIN 14 Penningto	n 8 Beer, Groce	ery 5 Railroad		6 5 Freight	Trucks HwyBB/160	06:00 to 12:00
DAY 3 2-1203	1 Cement	0 9 Pennington	2 Grocery	5 Railroad		6 16 Freight	Trucks HwyBB/160	12:00 to 17:00
DAY 4 4-1203, 2-1075	0	2 54 (32 NO pla	card	4	19	11	78 Hwy160/97	08:00 to18:00
DAY 5 2-1203, 2-1075	0	9	0	2 2 Empire		0 17 (12 Fre	ight 5C: HwyBB/160	17:00 to 01:00
DAY 6	0 4 Cement 10	Grain	0	0 3 Empire		4	15 HwyBB/160	00:00 to 06:00
DAY 7 1-1203, 1-1075	0	2	2	7	4	1	15 Hwy160/97	0:00 to 08:00
TOTAL	23 8	31	85	24	45	31	167	

TOTAL TRUCKS IN 7 DAYS 414 TRUCKS

TOTAL PLACARD 23 15-1203 7-1075 1-118

> COMMODITY FLOW STUDY ***2016***

Missouri Statewide Traffic Accident Record System

(STARS)

01-2013 - 01/2016

AND

Mo Dot 2013 Southwest District

Traffic Volume and Commercial

Vehicle Count Map

Souri Statewide Traffic Accident Records System Motor Vehicle Traffic Accident Summary Accident Sy Location 01/2013 - 01/2016 County: DADE Note: Note: DADE B Note: Note: DADE Note: Note: Note: DADE B CRD 111 01/2013 - 01/2016 County: DADE B CRD 111 01/4005463 114 A CRD 161 01/4005463 114 A CRD 161 01/4005463 114 A CRD 161 01/4005463 114 A CRD 171 01/4005463 114 A CRD 172 01/4005463 114 A CRD 172 01/4004725 114 A CRD 172 01/30073414 11 B CRD 172 01/30073414 11 A CRD 172 01/30073414 11 B CRD 172 01/30073414 11 B CRD 172 01/30073414 11 B CRD 172 01/30073414 11	atewide Traffic Accident Records System (STARS) Motor Vehicle Traffic Accident Summary Accidents By Location (1/2013 - 01/2016 County: DADE Cmobin (* most NStreet Accident / 01/2013 01/2017 14055325 01/2017 201/00 01/0074637 14055325 01/00 201/00 01/0074637 201/00 01/0074637 GB 111 01/0074637 130000 201/00 01/0074637 140221 201/00 01/0074637 GB 121 01/0074637 1300142 201/00 01/007463 140221 201/00 01/007463 GB 121 01/007463 140221 201/00 01/007463 201/00 01/00744 201/00 01/00744 201/00 01/00744 GB 121 01/007741 131002 201/00 01/007741 201/00 01/00774 201/00 01/007744 201/00 01/007744 201/00 01/007745 201/00 01	Date / Time Day Date / Time Day 2014/08/18 22:19:00 Sat 2014/08/18 22:19:00 Sat 2014/07/17 16:20:00 Sat 2014/07/17 16:20:00 Sat 2014/07/17 16:20:00 Sat 2014/07/17 16:20:00 Wed 2014/07/17 16:20:00 Fri 2014/07/17 16:20:00 Tue 2014/07/17 16:20:00 Wed 2014/07/17 16:20:00 Sat 2014/07/17 10:20:00:00 Sat 2014/07/17 10:20:00 Sat 2014/07/17 10:20:00:00 Sat 2014/07/17 10:20:00 Sat 2015/07/17 10:20:00 Sat 2015/07/17 10:20:00 Sat 2015/07/17 10:20:00 Sat 2015/07/17 10:20:00 Sat 2013/05/06 19:20:00 Sat 2013/05/06 19:20:00 Sat 2013/05/06 19:20:00 Mon 2013/05/06 19:20:00 Sat 2013/05/06 19:20:00 Sat 2013/05/07 12:20:20:00 Fri 2013/05/07 12:20:20:00
lent Records System Accident Summary 1/2016 ACCident 4 1/2016 1/2016 1/2016 1/2016 1/2016 1/2016 1/2016 1/2016 1/2016 1/2016 1/2016 1/2017 1/2016 1/2017 1/2016 1/2017 1/2016 1/2017 1/2	Dat Dat Dat Dat Dat Dat Dat Dat Dat Dat	Date / Time Day Date / Time Day 2014/02/30 00:18:00 Sat 2014/02/102 01:28:00 Mon 2014/02/17 17:24:00 Sat 2014/02/17 17:24:00 Sat 2014/02/17 17:25:000 Sat 2014/02/17 17:25:000 Sat 2014/02/17 17:25:000 Sat 2014/02/17 16:50:00 Sat 2014/02/16 02:50:00 Sat 2014/02/16 02:50:00 Sat 2014/02/16 02:50:00 Tue 2013/07/17 16:50:00 Tue 2014/07/17 10:20:50:00 Tue 2013/07/02 18:30:00:00:00 Sat 2013/07/03 18:30:00:00 Sat 2013/07/03 18:30:00:00 Sat 2013/07/03 18:20:00 Tue 2013/05/06 19:35:00 Tue 2013/05/06 19:35:00 Mon 2013/05/06 19:35:00 Mon 2013/05/06 19:35:00 Mon 2013/05/07 13:20:00 Sat 2013/05/07 13:20:00 Sat 2013/05/07 12:20:00 Sat 2013/05/07 12:20:0
	Dat 2014/08 2014/08 2014/08 2015/01 2015/01 2015/01 2015/01 2015/02 2014/10 2015/02 2014/10 2015/02 2014/10 2015/02 2014/10 2015/02 2014/10 2015/02 2014/10 2015/02 2015/02 2014/10 2013/05 20	Date / Time Day Date / Time Day 2011/06/30 00:18:00 Sat 2011/07/10/30 04:19:00 Sat 2013/10/02 01:38:00 Mon 2013/10/02 01:38:00 Mon 2013/10/02 01:38:00 Wied 2013/10/12 23:34:00 Mon 2013/07/17 16:39:00 Sat 2013/07/17 16:39:00 Wied 2013/07/17 16:39:00 Wied 2013/07/17 16:39:00 Wied 2013/07/17 16:39:00 Wied 2013/07/17 16:39:00 Tiue 2013/07/17 16:39:00 Wied 2013/07/17 16:39:00 Tiue 2013/07/17 16:39:00 Tiue 2013/05/07 17:39:00:00 Tiue 2013/05/07 11:30:00:00 Tiue 2013/05/07 11:30:00:00 Tiue 2013/05/07 11:30:00:00 Tiue 2013/05/07 11:30:00:00 Tiue 2013/05/07 12:30:00 Tiue 2013/05/07 12:30:00 Sat 2013/05/07 12:00 Sat 2013/05/07 12:00 Sat 2013/05/07

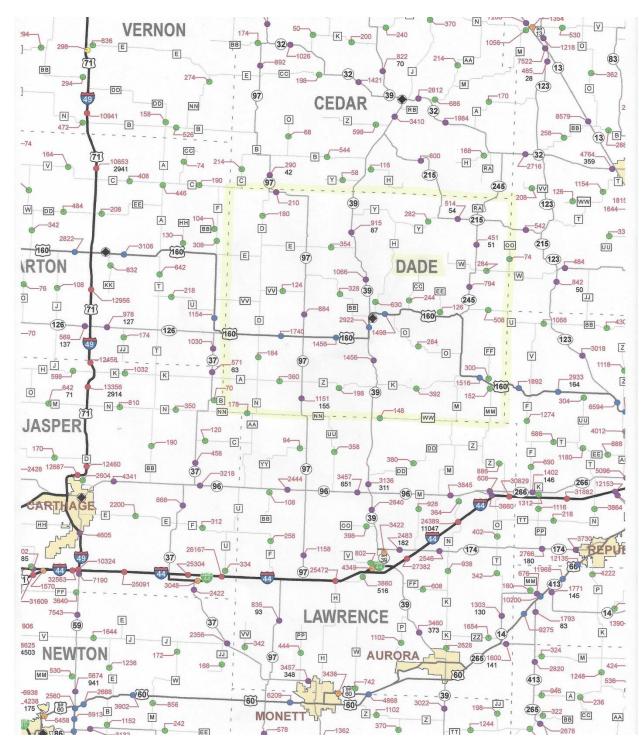
40 OM	MO 97	MO 97	MO 97	MO 97	MO 97	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	MO 39	0.5 OW	MO 30	MO 39	MO 745	MO 243	MO 245	MO 245	MO 245	MO 215	CST WATER	CST TALBUTT	CST SYCAMORE	CST SHOUSE	CST PINE ST	CST MITCHELL ST	CST MAPLE	CST MAIN ST	Un-street				
Z	Ś	S	S	N	s	Ν	z	S	N	N	N	S	S	N	S	S	N	S	N	N	N	N	S	S	5	Z Z	2 2	N	S	S	S	z	Z 3	Z M	s	Ν	S	Ν	E	П	S	Ν	N	Zī	m	S	Un-street Uir
150 feet	0.2 miles	132 feet	20 feet		500 feet	0.6 miles	5.3 miles	0.5 miles	0.4 miles	1149 feet	0.4 miles	20 feet	0.2 miles	202 feet	0.1 miles	0.3 miles	0.6 miles	0.1 miles	0.3 miles	0.6 miles	1.3 miles	0.5 miles	0.8 miles	180 feet	0.6 miles	2 0 miles	0.5 miles	0.6 miles	1.2 miles	0.4 miles	0.5 miles	0.2 miles	2.3 miles	700 foot	0.7 miles	1.0 miles		2.0 miles					50 feet	10 feet		8 feet	Distance
R	A	в	в	AT	A	Þ	в	в	в	в	A	В	в	в	в	В	A	A	в	A	A	B	в	A	σ τ	70 J	> U	A	A	B	в	A	⊳)	> Þ	B	A	AT	в	AT	AT	AT	AT	B	▶ :	AT	A	Intersect Loc
CRD W DADE 152	RT A	CST E 8TH STREET	US 160	CST 6TH ST	CRD 66	BRIDGE A2930	RT Y	CRD WEST DADE 12	CRD E DADE 154	CRD E DADE 54	CRD EAST DADE 192	RT Z	CRD 72	CRD N DADE 42	CRD 182	RT WW	CRD E DADE 72	RTE	CRD 154	CRD W DADE 144	RTK	CRD 92	RTK	RTK	CRD 192		CBD 175	CRD 192	CRD 182	CST OLD HWY 39	CRD 42	CRD 126	RTU	MU 213	CRD E DADE 96	CRD EAST DADE 42	MO 215	RTY	CST MAIN ST	CST SHOUSE	CST 6TH ST	CST GARRETT ST	CST EAST SIXTH ST	CST 3RD ST	CST ALLISON	CST BARBER ST	At-Street
2420010262	3130005897	3150001010	3140016410	0140055554	0140061067	\$ 3160000801	3160000727	3150028758	3150027139	3150012824	3150011826	3140030041	3140027917	3140023076	3130032039	3130029449	3140021676	3140005901	0140060622	3140018317	3140016427	0150031021	0150026160	0150025766	3130003771	21400007072	0140039468	0150037853	0140080120	0140032962	0130081148	0130074504	0130081149	0140007137	3150003135	3150024758	3150033050	3150018150	2140004531	0140073859	0130081576	2150029376	3130002649	2150035118	2140000077	2150006664	Accident #
120205027	130032820	150027145	140418798	1000314	14069258	160026058	160006781	150688108	150657179	150320625	150293652	140728279	140705238	140603983	130813231	130769769	140565297	140102291	1409237	140481487	140434348	1504088	1503054	1503048	130107381	300140103	1405099	1505125	1412332	1404066	131114	131029	131111	1400361	150084199	150610246	150752249	150443825	300140209	1411308	131139	300151001	130035376	302151105	300140102	300150304	Complaint #
		15		2014/08/28 14:56:00			24	2015/11/05 16:00:00	2015/10/21 16:00:00	2015/05/29 08:15:00	2015/05/19 12:45:00	2014/11/21 22:25:00	2014/11/09 10:25:00	2014/09/20 18:30:00	2013/12/29 00:15:00	2013/12/06 09:35:00	2014/09/02 14:45:00	2014/02/19 11:00:00	2014/09/06 08:35:00	2014/07/27 10:20:00	2014/07/07 16:45:00	2015/04/19 10:30:00	2015/03/13 02:00:00	2015/03/05 17:52:00	2013/02/21 10:00:00	2014/01/04 18:30:00	2014/05/21 05:50:00	2015/05/31 04:55:00	2014/12/27 15:45:00	2014/04/27 13:46:00	2013/11/12 08:09:00	2013/10/27 18:51:00	2013/11/10 22:20:00	2014/03/13 00.00.00	2015/02/10 11:10:00	2015/09/28 17:15:00	2015/12/05 15:45:00	2015/07/19 15:30:00			2013/11/28 13:25:00	2015/10/08 07:45:00			2014/01/02 13:00:00	2015/03/16 08:40:00	Date / Time
n 1	Thu	Thu	Thu	Thu	Wed	Thu	Mon	Thu	Wed	Fri	Tue	Fri	Sun	Sat	Sun	Fri	Tue	Wed	Sat	Sun	Mon	Sun	Fri	Thu	Thu	Sat	Wed	Sun	Sat	Sun	Tue	Sun	Sun	Thu	Tue	Mon	Sat	Sun	Mon	Thu	Thu	Thu	Fri.	Mon	Thu	Mon	Day
3	07	05	03	03	01	03	03	07	10	03	07	07	03	03	03	03	17	03	03	07	07	10	03	8	10	1 9	10	1 03	03	03	01	01	9 8	2 5	8 8	03	07	07	02	07	07	05	06	70	07	60	i ype
	0			0 0		0		0 0	1 0	2 0	2 0	0 0	2 1	1 0	2 0	0 0	1 0	0 0		1 0		0 0		0 0				0		1 0	0 0	1 0	<u> </u>			1 0	0 0	3 0		0 0	1 0	1 0		0		0 0	injured Killed

RT M	NI M BT M	RT M	RTK	RTK	RIK	RTK	RTK	RTH	RTH	RTH	RTH	RTH	RT H	RT FF	RTE	RTE	RTE	RTE	RIE	27	RTD	RT D	RT D	RT BB	RT A	RT A	RT A	RTA	RT A	PP 819 RT H	MO 97	MO 97	MO 97	40 97	MO 97	40 0M	26 UM	MO 97	MO 97	Un-Street				
z	o 4	z :	W	₹ ⊓	п г	. *	W	S	V	S	X	N	S	Ν	W	W	m 1		Π		1 5	S	S	S	W	m	₹ 77	W	m	W	E	W	m z	NA	N	z	S	S	z	~	z 2	: N	z	Un-Street Dir
225 feet	88 foot	70 feet	338 feet	295 feet	1.3 miles	0.3 miles	2.5 miles	0.01 miles	0.2 miles		0.92 miles	0.75 miles		0.7 miles		50 feet	0.1 miles	0.5 miles	1.6 miles	31 Teet	0.6 miles	0.4 miles	5.0 miles		0.6 miles	1.2 miles	0.1 miles	4.0 miles	0.1 miles	0.7 miles	2.2 miles	0.3 miles	6.5 miles	0.02 miles		5 feet	0.2 miles		77 feet	150 feet	U.4 miles		190 feet	Uistance
A)	> 1	⊳ (₽	A	• •	2 2	. 0.	A	в	NA	A	B	AT	A	AT	٨	σ :	▶ 3	À	• >	. B	в	в	AT	٨	A	8 8	A	A	в	B	A	B	A	AT	A	B	AT	∞ :	▶ 0	ס מ	AT	; B	Intersect Loc
CRD EAST DADE 202	CDD 472	CST MAIN ST	CRD 141	BRIDGE N0280	RI M	CRD 151	RIM	CRD 92	CRD 92	UNKNOWN	US 160	CRD 52	CRD 84	US 160	CRD 41	CRD 11	CRD NORTH DADE 11	CRD 11	MU 39	KI E	RT VV SJ	RT VV	US 160	CST JENNINGS LN	MO 39	CRD DADE	MO 97	MO 39	CRD 51	CRD 51	MO 97	MO 97	MO 97	RTH	CRD N DADE 71	RT BB	CRD W DADE 66	CRD W DADE 2	BRIDGE B0410	CRD W DADE 72	CRD WEST DADE 12	CRD WEST DADE 92	CRD 152	At-Street
3140019374	0130033242	0140033407	0140038757	3150026950	3130043455	0140019335	0140039732	0140044727	0140044726	0140032257	0130066767	0130033340	0140022483	3150026842	0150015242	0140027238	3150003780	0140072998	0130081130	0120004460	3140009108	3140021834	3150023640	2160008159	3150029572	0150065492	0140080674	3130024610	0140044479	3140000652	3150021078	3150018253	3150030202	0140052232	3160002773	3150028874	3150022029	3150005880	3150004170	3150003842	3150000852	3130031876	3130023511	Accident #
140480110	130408	1404040	1405102	150626137	70607061	1410270	1405091	1406132	1406133	1404056	131028	130415	140205	150649847	1501018	1403007	150098337	140204	131100	424406	140215314	140578229	150582661	302160110	150686994	1509234	1212313	130651973	1406124	140015599	150503583	150445208	150688939	1407152	160058158	150682530	150534830	150136819	150086425	150100747	150026060	130797748	130640313	Complaint #
2014/07/26 18:30:00	2013/04/06 21:16:00			2015/10/06 09:45:00	2013/06/22 10:20:00			2014/06/17 17:10:00	2014/06/17 16:23:00	2014/04/19 13:45:00	2013/10/27 00:00:00	2013/04/14 09:20:00	2014/02/03 20:34:00	2015/10/17 21:05:00	2015/01/19 07:27:00	2014/03/03 16:38:00		2014/02/03 02:46:00	2013/11/06 1/:20:00	2014/02/02 12:34:00	2014/04/09 14:55:00	2014/09/08 18:40:00	2015/09/16 07:20:00	2016/01/29 16:21:00	2015/11/05 05:30:00	2015/09/24 14:47:00	2014/12/02 20:37:00	2013/10/12 11:00:00	2014/06/09 22:27:00	2014/01/09 13:15:00			2015/11/06 06:30:00	2014/07/02 19:33:00	2016/01/29 19:25:00	2015/11/03 00:20:00	2015/08/27 10:00:00				2014/02/08 10:10:00			Date / Time
Sat	Cat	Mon	Sun	Jac	Sull	Tue	wed	Tue	Tue	Sat	Unk	Sun	Mon	Sat	Mon	Mon	Tue	Mon	Cat.	Mod	Wed	Mon	Wed	Fri	Thu	Thu	Tue	Sat	Mon	Thu	Fri	Mon	Fri	Wed	Fri	Tue	Thu	Sun	Wed	Thu	Jat	C+	Sun	νay
03	03	70	03	04	10	70	3 5	17	03	03	01	10	01	03	03	03	03	10	9 9	2 5	9	03	01	03	03	07	03	07	03	03	03	07	03 03	8 03	10	03	10	07	03	8	ສີະ	07	9 9	lype
	<u> </u>		1 0		 -			. 1	1 0	1 0	0 0	1 0				0 0		- 0					0 0		0 0		0 -		0 0			0 0		0		1 0	0 0	0 0	1 0	0 0	1 -	• 0	0	Injured Killed

1.0 miles 0.3 miles 0.3 miles 0.2 miles	AT RT FF 0.5 miles B RT CC 1.0 miles B MO 245	CRD E DADE 108 CRD 142 CRD NORTH DADE 107 CRD 126	0.5 miles A 0.3 miles A 0.3 miles B	1.5 miles B 1.5 miles A	0.3 miles A	E 0.4 miles A CRV S VAVE S	0.3 miles A	0.3 miles B	0.5 miles A	0.3 miles A	W 1.9 miles B MO 245 E 0.1 miles B RT MM	0.6 miles A	1.8 miles B	0.3 miles A	2 feet A	0.1 miles	W 1.0 miles A	0.2 miles	300 feet		0.4 miles	W 0.9 miles A	0.5 miles	0.7 miles		N 0.1 miles	W 1.9 miles				N 42 feet	400 feet
B MO 245 0150065493 A MO 126 3130000292 A MO 245 313000292 A CRD 5 DADE 105 3130014385	AT RTFF B RTCC B M0 245	A CRD E DADE 108 B CRD 142 A CRD NORTH DADE 107 NA CRD 126	د د ت <i>د</i>	> ∞	Þ	∞ ≽	A	в	A	A :	8 8	A	B	>)	A A										5 feet	0 1 miles	1.9 miles	150 feet	0.2 miles	0.1 miles	42 feet	
MO 245 0150065493 MO 126 313000272 MO 245 3130014078 CRD 5 DADE 105 3130014385	RT FF RT CC MO 245	CRD E DADE 108 CRD 142 CRD NORTH DADE 107 CRD 126														в	A d	в 8	B	в	D I	• •	в									
0150065493 313000292 3130014078 3130014385	-	10E 108 17H DADE 107	CRD NORTH DADE 21 MO 245	MO 97 CRD NORTH DADE 21	CRD N DADE 91	RT CC	MO 245 CRD S DADE 5	RT CC	CRD SOUTH DADE	RT CC	MO 245	CRD N	S OW	CR										A	ω τ	ע א	> >	A	8	B	> (77
	3130003 01500430 0150065	31 31 01-							221			CRD N DADE 21	7	CRD 103	CRD 121	CRD 183	CRD 201	CRD 51 CRD 5 DADE 155	CRD N DADE 1	CRD N DADE 11	CRD NORTH DADE 41	US 160	US 160	US 160	CRD S DADE 181	RPINGE 20163	MO 97	CRD 93	CRD 180	CRD 172	CRD 172	DT K
1509239 130015582 130375452 130383790	776 776 933	3140027902 3140022590 3140022992 0140067055	3150008956 3140026881	3150015624 3150008779	3150013601	3150024735	3150022661	3150020694	3150020285	3150020282	3150018246 3150019575	3160003296	0130033241	3130002805	0140060427	3130030773	3140017124	0150033586	3150027596	3150002825	3130023309	0140049748	0140049401	0140055361	3130029697	3130036004	3140020903	3130004893	0140050575	0130086194	3140007144	3140033453
	130067314 1506152 1509239	140710000 140594256 140564778 1410276	150203330 150203320 140694203	150371425 150203330	150334893	150609996	150544786	150496878	150487274	150494865	150438449 150481788	160027492	130401	130084391	1409232	130787891	140451745	1511290 150438875	150613882	150072375	130619921	1407174	1407156	1408212	130761249	130707371	140554825	130138046	1407150	131214		140796896
2015/09/30 19:35:00 2013/01/08 18:00:00 2013/06/19 14:45:00 2013/06/22 18:35:00	2013/02/02 11:10:00 2015/06/27 09:30:00 2015/09/30 19:35:00	2014/11/11 19:45:00 2014/09/16 13:00:00 2014/09/02 10:30:00 2014/10/11 12:15:00	2013/04/09 03:30:00 2015/04/09 05:31:00 2014/11/04 11:20:00	2015/06/20 15:25:00 2015/04/09 05:30:00	2015/06/04 15:20:00	2015/09/28 15:30:00	2015/08/31 14:20:00	2015/08/09 22:01:00	2015/08/06 23:45:00	2015/08/09 22:00:00	2015/07/17 17:30:00 2015/08/02 05:50:00	2016/01/14 15:45:00	2013/04/03 04:08:00	2013/02/10 02:00:00	2014/09/04 22:13:00	2013/12/16 07:45:00	2014/07/14 23:50:00	2015/09/30 14:20:00	2015/09/30 14:30:00	2015/02/05 08:06:00	2013/09/27 14:50:00	2014/07/17 17:35:00	2014/07/06 15:09:00	2014/08/14 07:40:00	2013/12/02 07:30:00	2013/11/05 09:35:00	2014/08/29 21:18:00	2013/03/08 00:30:00	2014/07/02 18:10:00	2013/12/13 22:48:00	2014/03/04 07:50:00	2014/12/22 22-25-00
Wed Tue Wed Sat	Sat Sat Wed	Tue Tue Sat	Tue Thu	Sat Thu	Thu	Mon	Mon	Sun	Thu	Sun	Sun	Thu	Wed	Sun	Thu	Mon	Mon	Fri	Wed	Thu	Fri	Thu	Sun	Thu	Mon	Tue	Fri	Fri	Wed	Fri	Tue	Sat
07 01 11	07 03	03 03 10	3 2 9	07	03	03	10	07	03	03	07	07	03	10	01 03	07	10	07	07	10	07	8 03	10	03	03	10	3 9	01	. 03	03	03	2
0 0 0 0 0 0 0	0 0 0	0 0 1 0 1 0				0 0					0 0			1 0			1 0		0 0			0 0	1 0		0 0			0 0	0 0	1 0	0 0	-

	US 160	US 160	US 160	US 160	US 160	US 160	US 160	US 160	US 160	US 160	115 160	US 160	US 160	US 160	US 160	US 160	US 160	JS 160	US 160	On-Street												
	m	п	E	W	Ē	m	m	W	•	mı	τī i	m I	m 1	m	W	W	W	×	Π		E	W	W	E	F	m	W	m	W	m 1	E	On-Street Dir
	0.7 miles	0.2 miles	0.5 miles	0.2 miles	0.1 miles	0.2 miles	853 feet		0.5 miles	0.6 miles	300 feet	0.08 miles	0.3 miles	50 feet	279 feet		0.4 miles		165 feet	0.6 miles		400 feet		0.7 miles	1033 feet	3.1 miles	114 feet	0.5 miles	1.1 miles	0.2 miles	0.4 miles	r Distance
	A	A	в	A	A	A	A	NA	A	ω)	▶ :	A	A	8	A	NA	8	AT	A	A	AT	A	AT	A	B	В	A	В	A	B	A	Intersect Loc
	CRD 105	CRD 91	CRD 115	MO 245	RT O	CRD 91	CRD 181	PP 841 US 160	RTO	CRD 115	CRD 115	RT M	CRD 173	CRD 142	CRD 115	CRD 105	CRD 55	MO 39	CST LAKE	MO 9/	MO 97	CST COTTONWOOD ST	CST SYCAMORE ST	CRD 241	CST SCHOOL	MO 39	CRD 181	CRD S DADE 105	RT FF	MO 245	CRD 91	At-Street.
	0140032540	0140022717	0140017155	0130086488	0130080229	0140055362	0140040649	0150020221	0150014474	0140080665	0130060735	0130054214	0130047049	0130046661	0130040052	0130033243	0130022132	0130022131	0140061246	3140003545	3130031943	3130016857	0140067056	3140021046	3140021858	3130017109	3130013229	3140000314	3130005266	3130010276	3130010257	Accident #
	1404050	140211	140108	131201	131125	1408207	1405078	1502029	1501017	1412316	130801	130711	130627	130602	130503	130422	130201	130202	1409266	1400/3488	130806593	130451612	1410275	140556048	140583325	130450355	130356779	140010075	130145274	130265951	130274718 🔦	Complaint #
	2014/04/12 12:15:00	2014/02/13 01:32:00	2014/01/05 13:35:00	03		2014/08/01 14:23:00	2014/05/05 05:39:00		2015/01/09 18:51:00	2014/12/06 10:55:00	2013/08/01 14:55:00	2013/07/11 20:35:00	2013/06/23 21:19:00	2013/06/01 18:54:00	2013/05/04 07:11:00	2013/04/27 05:08:00	2013/02/02 07:35:00	2013/02/02 09:35:00	2014/09/73 17:47:00	2014/02/03 22:27:00	2013/12/25 19:00:00	2013/07/19 12:50:00	2014/10/10 15:19:00	2014/08/30 11:00:00	2014/09/11 11:40:00	2013/07/18 21:40:00	2013/06/11 07:45:00	2014/01/06 14:05:00	2013/03/11 16:05:00	2013/05/05 01:15:00	2013/05/09 05:30:00	Date / Time
	Sat	Thu	Sun	Tue	Tue	Fri	Mon	Fri	3.	Sat	The second	Thu	Sun	Sat	Sat	Sat	Sat	Sat	Tue	MON	Wed	Fri	Fri	Sat	Thu	Thu	Tue	Mon	Mon	Sun	Thu	Day
	07	03	03	03	03	03	01	07	07	03 03	03	10	01	03	03	03	10	07	9 3	07	07	07	07	07	07	03	03	. 10	03	03	10	
	0	0	1	2	0	1	0	2	0	0 .	<u> </u>	-	0	0	0	0	2	2	ω -	• 1	0	1	0	2	0	1	0	0	0	1	-	
	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0 0		0	0	0	0	0	0	0	0	0	0	0	

MoDOT 2013 Traffic Volume and Commercial Vehicle Count



RAILROAD ANALYSIS



Railroad Transportation Section

Burlington Northern Railroad has track that runs all the way across the southern end of _____ County. The track goes East and West into adjoining counties of Barton and Greene. Training for hazmat emergencies and being familiar with procedure for rail incident should be high. The amount of hazardous material is high coming through the county. The actual risk of derailment is low. Burlington Northern reported a rate of 3.19 reportable incidents per million train miles in 2005. Below is a map with track highlighted in orange. A current Flow Study is available for _____ County, from Burlington Northern, it is not for public use but is in the Emergency Managers office of _____ County.



PIPELINE ANALYSIS







Pipeline Transportation Section

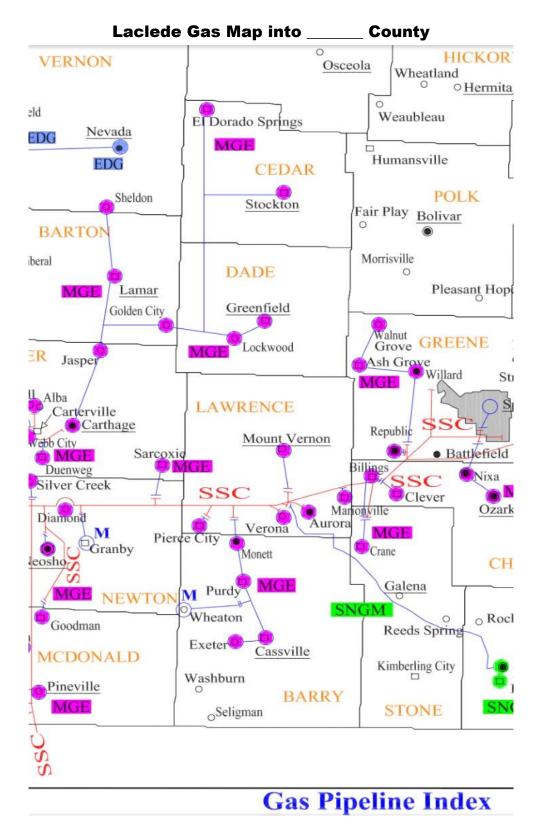
_ County has 3 different pipelines in our County.

The longest line is *Laclede Gas,* they run natural gas. It enters from the west out of Barton County and runs to Greenfield. See attached map.

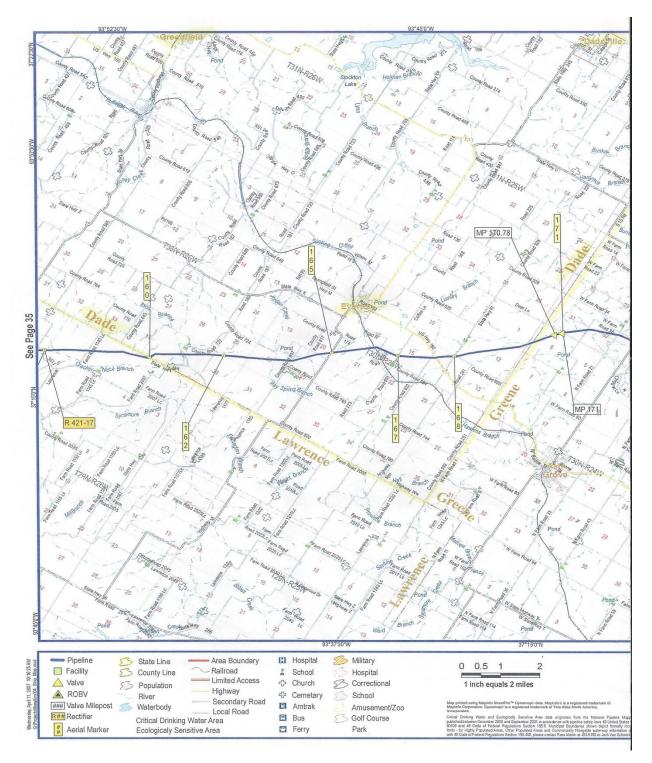
Explorer Pipeline runs a 24" diameter pipeline across the southeast corner from Lawrence County, across _____ County and into Greene County. Explorer carries Diesel, Gasoline, Jet Fuel, and Natural Gasoline. See attached map.

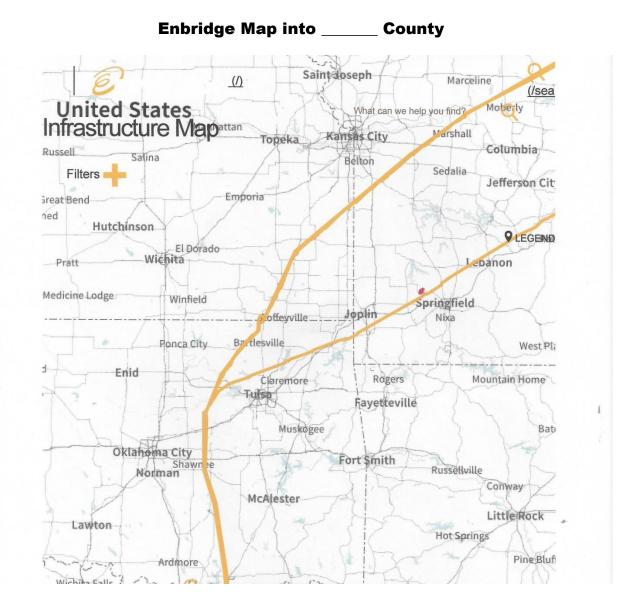
Enbridge Pipelines goes aross the southeast tip of the county, again coming from Lawrence County into Greene County. Their pipeline carries petroleum. See attached map.

These lines are all well monitored by the suppliers. Yearly training should be done by our fire departments to keep them aware of current contacts with the companies and proper procedure.



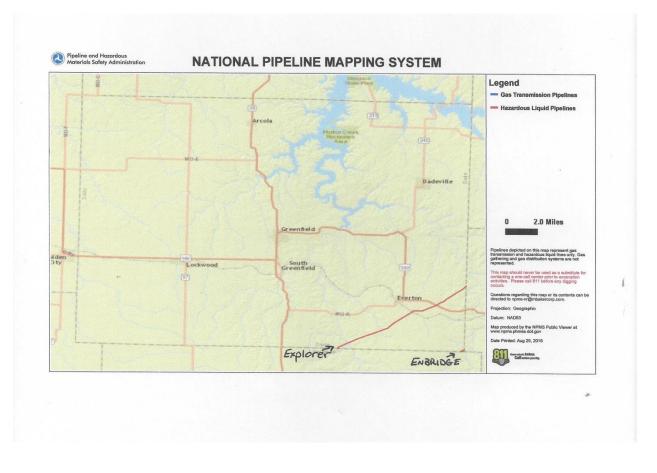
Explorer Pipeline in _____ County





National Pipeline Map into _____ County

Explorer and Enbridge



Conclusion

_____ County does not have a high volume of end point users of hazmat material. The majority of the hazmat material in our county is passing through.

Training focus for hazmat in our county should be focused on rail and chemicals used mainly in our county such as propane and fertilizers.