

## Summary, PHMSA Crude Oil Pipeline Incidents (Gallons per spill)

	All Interstate Pipelines			Enbridge*			Enterprise**			Teppco***			Enbridge, Enterprise, Teppco			Other Interstate Pipelines		
	spills	gallons	gallons per spill	spills	gallons	gallons per spill	spills	gallons	gallons per spill	spills	gallons	gallons per spill	spills	gallons	gallons per spill	spills	gallons	gallons per spill
all 2002-2012 onshore crude spills	1,671	18,762,204	11,228	165	2,445,170	14,819	55	930,025	16,910	91	499,202	5,486	310	3,874,397	12,498	1,361	14,887,807	10,939
Annual average, 2002-2012	159	1,786,877	11,228															
2002 spills	180	856,931	4,761	13	258,192	19,861	0	0		9	72,134	8,015	22	330,326	15,015	158	526,605	3,333
2003 spills	180	1,217,074	6,762	16	257,280	16,080	0	0		11	39,389	3,581	27	296,669	10,988	153	920,405	6,016
2004 spills	146	837,368	5,735	18	49,864	2,770	0	0		6	2,140	357	24	52,004	2,167	122	785,364	6,437
2005 spills	165	4,282,492	25,954	16	119,625	7,477	1	210	210	15	96,640	6,443	32	216,475	6,765	133	4,066,017	30,572
2002-2005 spills	671	7,193,865	10,721	63	684,961	10,872	1	210	210	41	210,303	5,129	105	895,474	8,528	566	6,298,391	11,128
Annual average, 2002-2005	168	1,798,466	10,721	16	171,240	10,872	0	53	210	10	52,576	5,129	26	223,869	8,528	142	1,574,598	11,128
2006 spills	158	3,521,729	22,289	10	8,275	828	0	0		19	79,556	4,187	29	87,831	3,029	129	3,433,898	26,619
2007 spills	157	655,974	4,178	22	292,750	13,307	0	0		8	21,925	2,741	30	314,675	10,489	127	341,299	2,687
2008 spills	153	2,488,565	16,265	9	39,868	4,430	2	85	43	13	179,430	13,802	24	219,383	9,141	129	2,269,182	17,591
2009 spills	152	1,015,701	6,682	18	8,350	464	1	5,040	5,040	9	7,988	888	28	21,378	764	124	994,323	8,019
2010 spills	150	2,213,355	14,756	21	1,326,815	63,182	13	6,329	487	0	0		34	1,333,144	39,210	116	880,210	7,588
2011 spills	146	1,367,433	9,366	12	18,999	1,583	28	884,105	31,575	0	0		40	903,104	22,578	106	464,329	4,380
2012 spills thru June	84	305,582	3,638	10	65,152	6,515	10	34,256	3,426	0	0		20	99,408	4,970	64	206,174	3,221
2006-2012 thru June spills	1,000	11,568,339	11,568	102	1,760,209	17,257	54	929,815	17,219	49	288,899	5,896	205	2,978,923	14,531	795	8,589,416	10,804
Annual average, 2006-2012	154	1,779,744	11,568	16	270,801	17,257	8	143,048	17,219	8	44,446	5,896	32	458,296	14,531	122	1,321,449	10,804

Average Teppco Spill Volume 2006-2008	5,896	gallons per spill	exceptionally good
Industry Average Spill Volume 2006-2012	11,568	gallons per spill	industry average
Average Enterprise Spill Volume 2006-2012	17,219	gallons per spill	Alarming !!!
Enterprise Spill Volume 2011 (Worst Year)	31,575	gallons per spill	Alarming !!!

Sources: Pipeline Hazardous Materials Safety Administration spreadsheets "Hazardous Liquid Accident Data - January 2010 to present" and "Hazardous Liquid Accident Data - January 2002 to December 2009"

\* Enbridge announced its first tar sand oil shipment to Cushing OK March 6, 2006. <http://www.marketwire.com/press-release/enbridges-spearhead-pipeline-delivers-canadian-crude-oil-to-cushing-oklahoma-tsx-enb-582532.htm>.

\*\* Enterprise, founded as a natural gas liquids (NGL) company, began acquiring and building crude oil pipelines in 2005

\*\*\* Teppco merged with Enterprise in 2009