

THE HARMIS GROUP

November 18, 2013

Change in the Market: 2011 and today

What they said then? In 2011 proponents of WAWS asserted that:

- there would be enough water (sales) for everyone
- That we would reach 4.6 billion gallons of water by 2011 (or 14,000 acre feet)
- We used 2.3 billion for fracing (total of 3 billion for all oil and gas)

The Plan: was to build 12-15 water depots and trunk lines along main highways in northwest North Dakota. (No spider-web design to blanket that region was every revealed nor approved).

Permits:

2011: 47,000 acre feet (5 times the need)

2013: 116,000 acre feet (9 times the need)

Trends: (displayed in acre feet)

	Fracs	All depots	Private	WAWS	WAWS %
2011	7124	9400	8230	1170	12%
2012	12629	17000	15215	1785	10%
2013*	_____	15600	12256	3344	21% to date
	*Jan-Oct				

Trends: (displayed in acre feet)

	Fracs	Water in Williams	Water in McKenzie	Total water	Water by WAWS	%
2013*	_____	4732	4249	<u>8981</u>	<u>3344</u>	37%
	*Jan-Oct				3700	41%