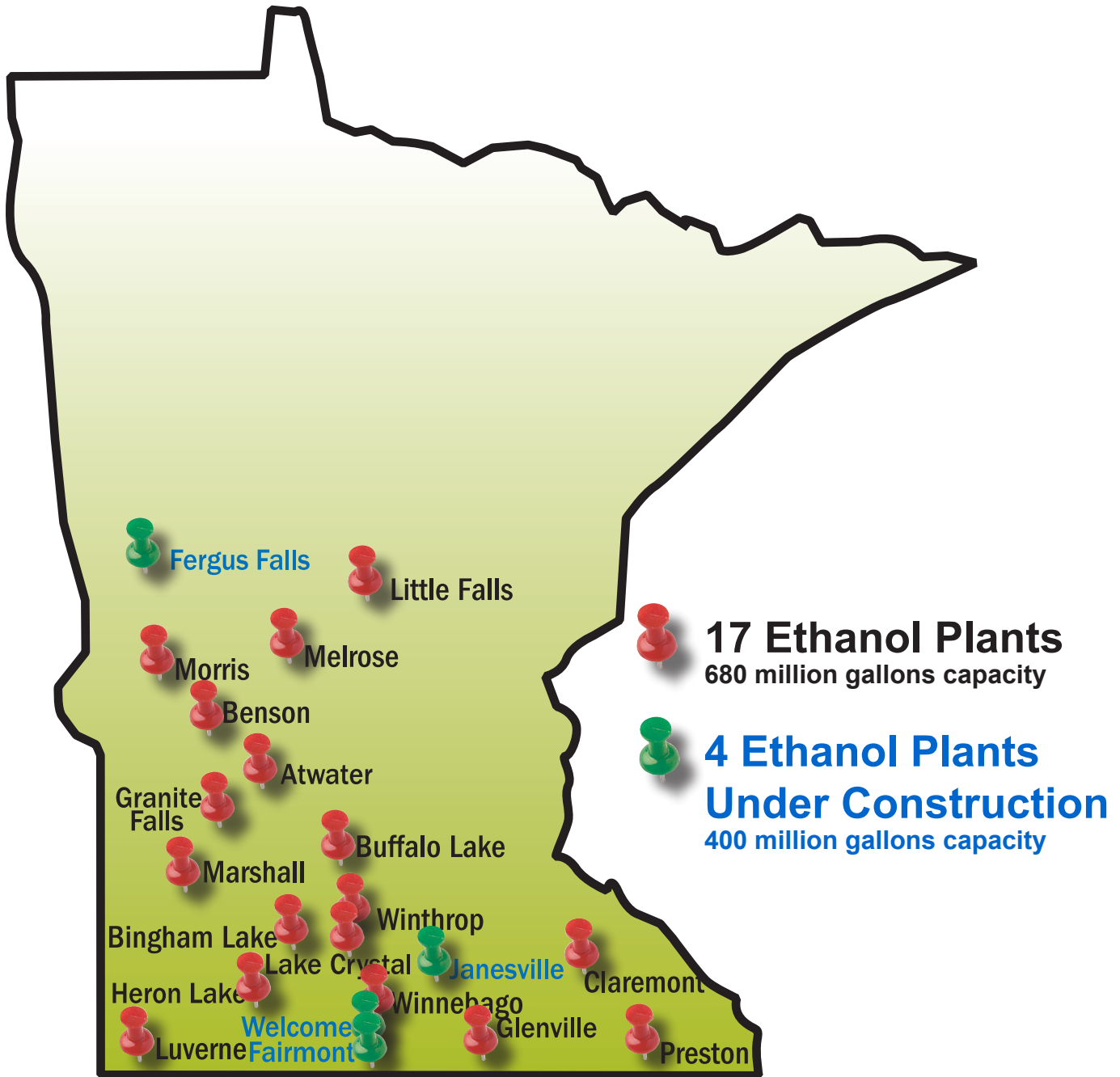


Ethanol Plants in Minnesota

October 2007

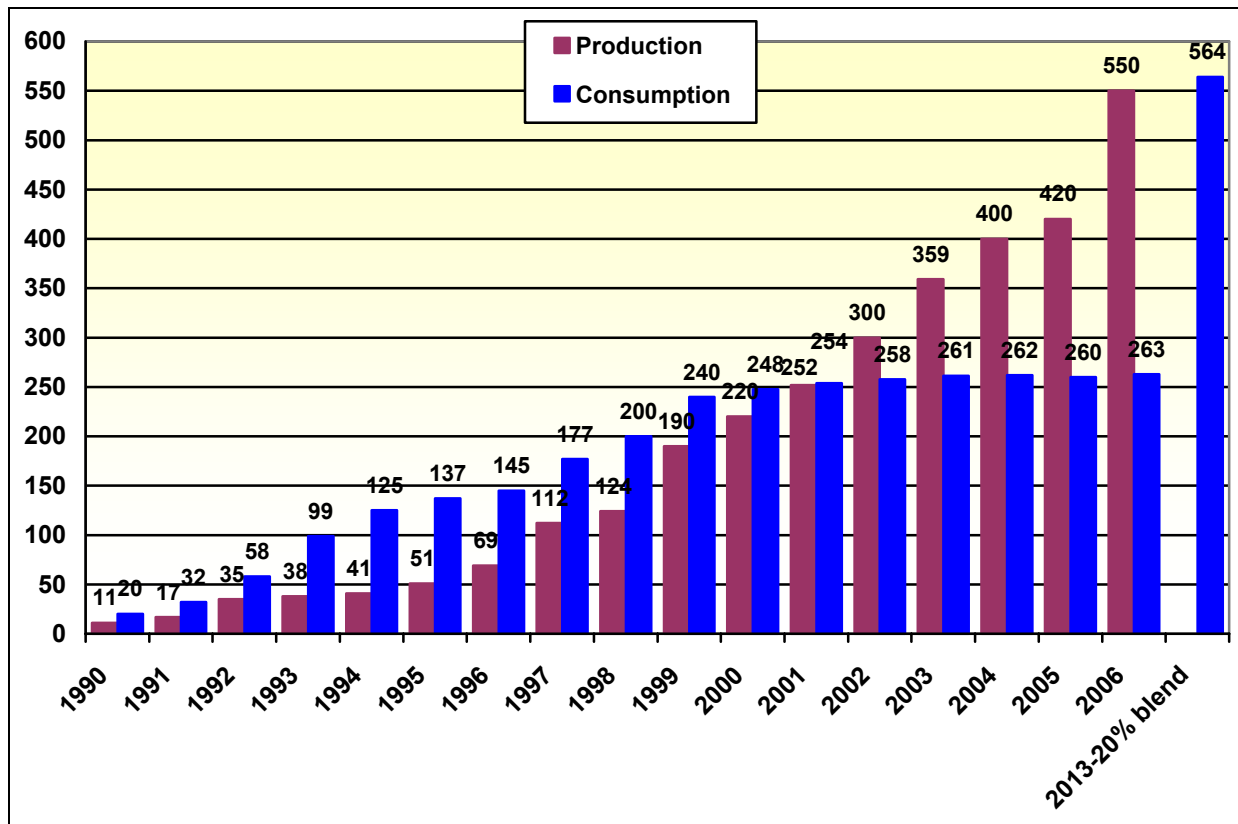


www.mda.state.mn.us/ethanol

Minnesota Ethanol: Production, Consumption, and Economic Impact

- Minnesota produced 550 million gallons of ethanol from 16 plants in 2006. About 260 million gallons were consumed in Minnesota. The state's net ethanol export was 290 million gallons - or 53% of Minnesota's total annual ethanol production.
- To meet the requirement of 20% blend of ethanol in Minnesota's gasoline by 2013, as proposed by Governor Pawlenty, Minnesota would need to produce 564 million gallons of ethanol (only a 14-million-gallon or 3% increase over the 2006 production level).
- Minnesota's 2007 ethanol production is projected to reach 620 million gallons.
- In January 2007, five new ethanol plants are under construction in the state, with an estimated annual combined production capacity of over 450 million gallons. Considering new plants and several plant expansions, Minnesota's projected ethanol production capacity for 2008 could reach 1 billion gallons.
- At the 550 million-gallon production level in 2006, Minnesota's ethanol industry generated an estimated \$2.77 billion in total economic impacts and over 10,321 jobs. The 1-billion gallon production by 2008 is projected to generate a total of \$4.95 billion in economic impacts and 18,461 jobs.

Minnesota Ethanol Production and Consumption (Million Gallons)



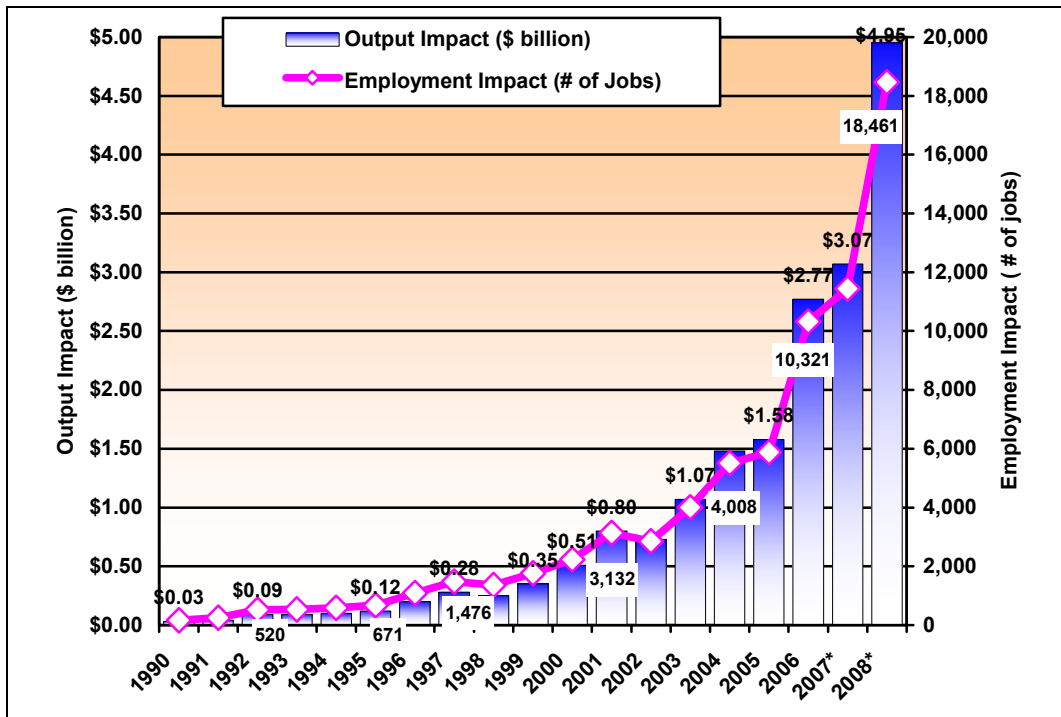
*Estimated consumption based on Gov. Pawlenty's proposed 20% blend ethanol by 2013.

Source: AMS, MDA

Minnesota Ethanol: Economic Impact

	Production (Million Gallons)	Output Impact (\$ million)	Employment Impact (# of Jobs)
1990	11	28.51	166
1991	17	42.38	247
1992	35	89.30	520
1993	38	90.96	529
1994	41	101.45	590
1995	51	115.26	671
1996	69	203.51	1,089
1997	112	275.66	1,476
1998	124	254.38	1,362
1999	190	352.47	1,759
2000	220	511.48	2,231
2001	252	802.60	3,132
2002	300	732.24	2,858
2003	359	1,074.32	4,008
2004	400	1,476.02	5,506
2005	420	1,577.00	5,883
2006	550	2,766.61	10,321
2007 (Projected)	620	3,067.80	11,444
2008 (Projected)	1,000	4,948.61	18,461

Minnesota Ethanol: Output Impact & Employment Impact

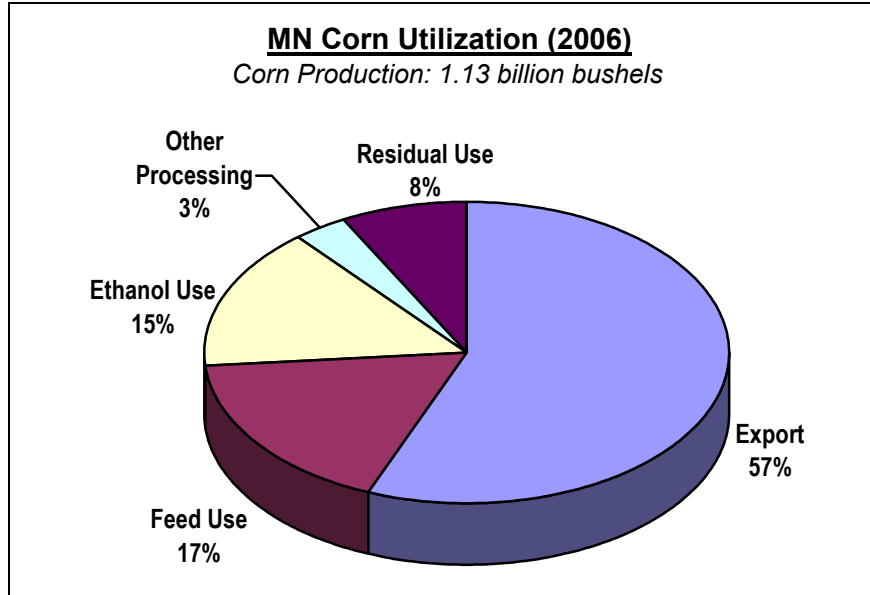


*Projected

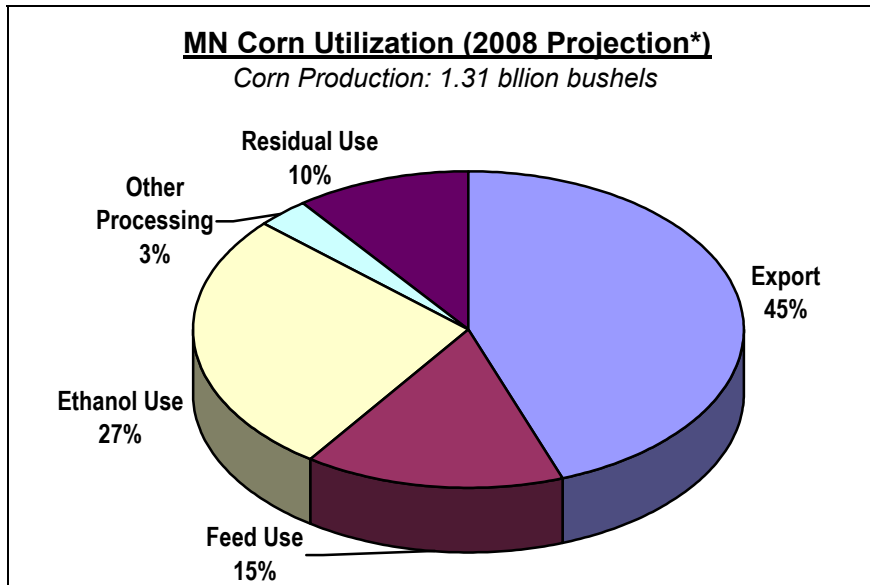
Source: AMS, MDA

Minnesota Ethanol: Corn Utilization

- In 2006, Minnesota processed 196 million bushels of corn into ethanol. This amount represents 15 percent of Minnesota's total annual corn crop.
- By 2008, Minnesota's ethanol production is projected to reach 1 billion gallons, consuming approximately one-fourth of the state's corn crop.



Source: PRX and MDA



*Based on PRX data and MDA estimates