

## MERC Peak Day Forecast - 2010 (in Dekatherms)

### By Demand Area

Demand Area	Weather Station Data						Regression Analyses (1)			Volume Risk Adjustment (2)				Adjustments					2010 Final Result
	A						B	C	D=B+(A*C)	E	F	G=E*F	G(A)=D+G	H	I	H-I	J=D+G-H+I	K	L=J*(1+K)
Service Area/ Pipeline	Bemidji	Fargo	International Falls	Cloquet	Minneapolis	Rochester	Base load	Use/ AHDD	Point Estimate	Sigma	Factor Needed for Confidence Level Above	Total Throughput Peak Day Risk Adjustment (6)	Total Throughput Peak Day w/ Risk Adjustment	(Remove) Interruptible, Transportation & Joint Interruptible	(Add Back) Daily Firm Capacity - Jan 2008	Adjust ment Sub Total	Sub-Total 2010 Peak Day Estimate	Sales Forecast Growth Rate (2)	2010 Total Peak Day Estimate
7 PNG-NNG				103	97	101	29,709	2,198	249,184	9,336	1.96	18,298	267,482	57,765	-	57,765	209,717	-1.6%	206,333
				4%	35%	60%													

2/1/1996	1/18/1996	2/1/1996	2/2/1996	2/2/1996	2/2/1996
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(1) Paper mills, taconites, direct-connects and off-system end users with daily meters removed before regression.

(2) adjustments needed to achieve 97.5% Confidence Level that actual demand under design conditions will not exceed estimate.

(2) General Service Customers (2009 - 2010) from FCST 200904

Coldest Adjusted HDD in 20 years (AHDD65)

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Demand Area	2010 Final Result	2009 Demand Entitlement Filing			Comparison to Prior Year		Comparison of 2010 Estimate to Actual Prior Year Peak Day Results							Comparison to 2008		
	L=J*(1+K)	M	N	O	L-M	N - L	L2	P	Q	R=Q-A	S	T=R*S	U=P+T	L2-U	V	L2-V
Service Area/ Pipeline	2010 Total Peak Day Estimate	2008 Forecast for 2009 Peak Day	2009 Entitlement	2009 Reserve Margin	2010 Peak Day Estimate vs 2009 Peak Day Estimate	2009 Entitlement vs 2010 Peak Day Estimate (3)	2010 Total Peak Day Estimate (Demand Area 5 Re-Allocated)	2008-09 Actual Peak Firm	Actual Peak AHDD65	Weather Diff - Actual Peak AHDD65 vs 20 Yr Coldest	Adj Firm Use/ AHDD	Additional Usage if at 20 Yr Peak	Extrapolated Firm Peak Day if at 20 Yr Max	Difference: 2010 Total Peak Day Estimate to Extrapolated 2009 Actual	2008 Peak Day Estimate	Difference: 2010 Total Peak Day Estimate to 2008 Peak Day Estimate
7 PNG-NNG	206,333	225,397	226,785	0.6%	(19,064) -8.5%	20,452 1.1%	206,333	176,225	82	(18)	1,688	30,368	206,593	(260) -0.1%	202,263	4,070 2.0%

(3) Approx 2009 Reserve Margin (assuming same entitlement capacity)

Use / AHDD reduced based on ratio of "Adjustments" to "Point Estimate"