

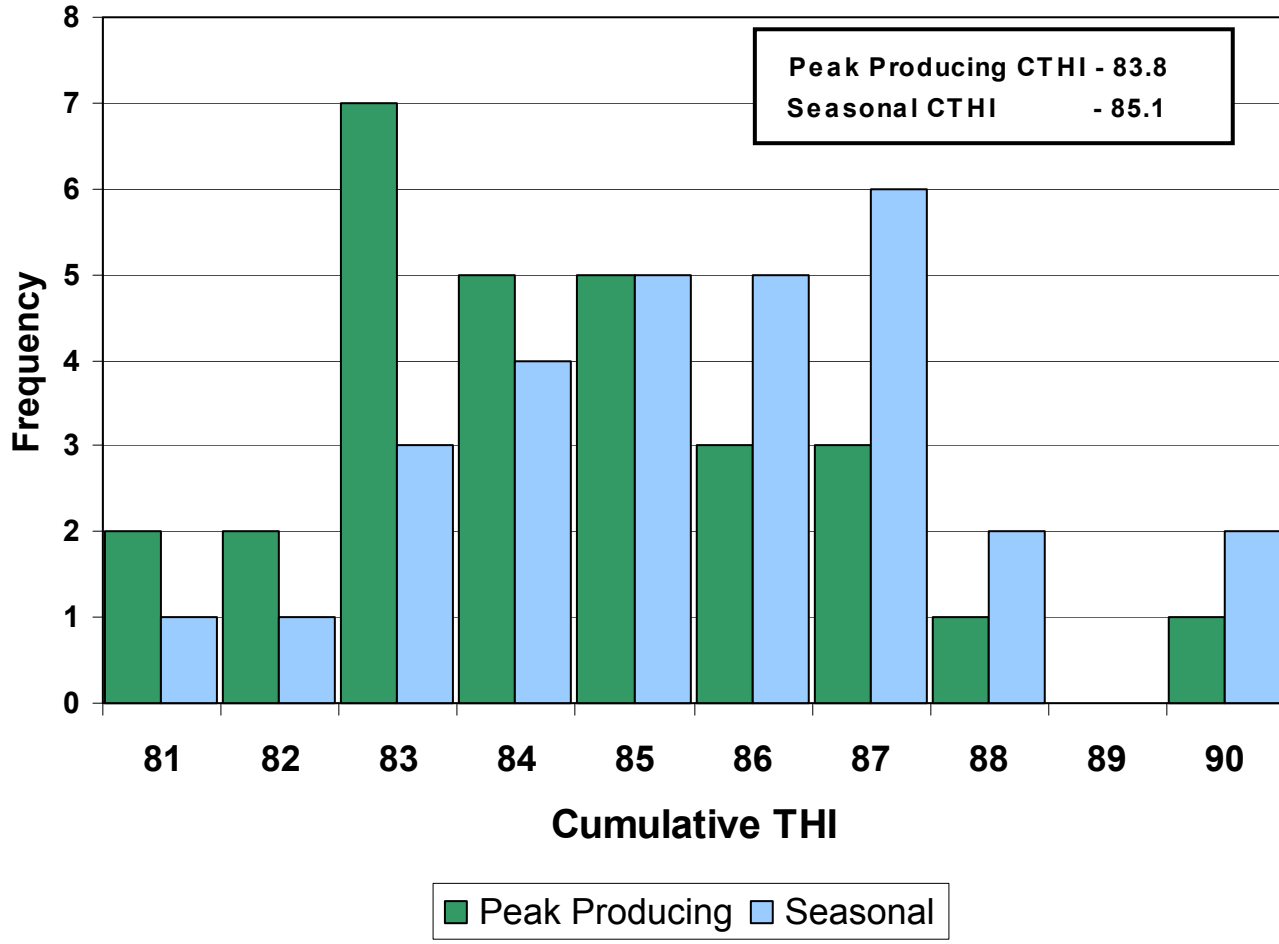
2003 Weather Adjustments to Coincident Loads

NYISO Load Forecasting Task Force
December 18, 2003

Overview of Results

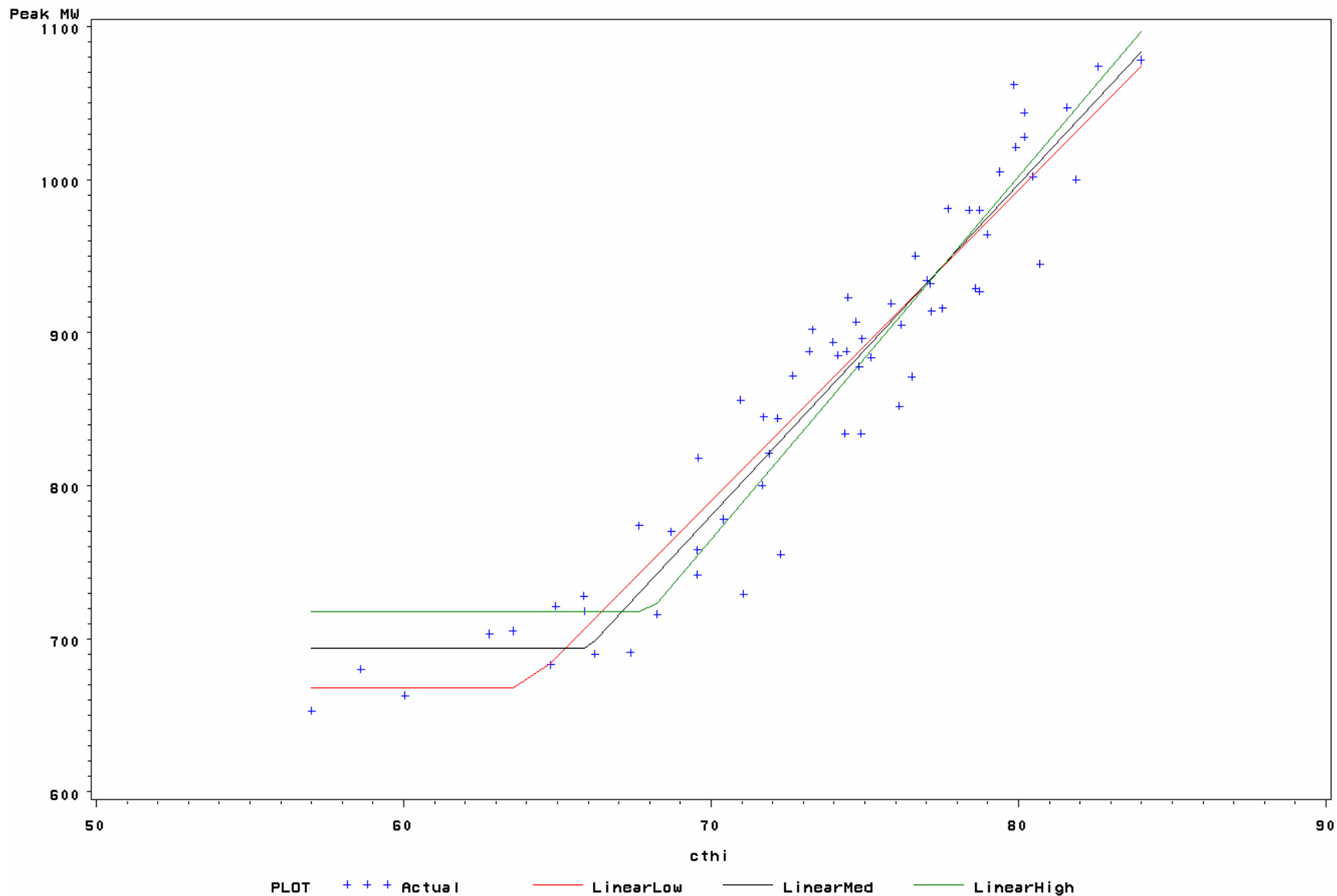
- Results for Each Transmission Owner
 - Seasonal & Peak-Producing CTHI
 - Regression Model of T.O. 2003 Loads
 - NYISO Estimate of Adjustment
 - Comparison to T.O.'s Estimate
 - Discussion of Results
- Next Steps
 - Resolution of Differences
 - Regional Load Growth Factors for 2004

Central Hudson



Central Hudson Summer Peak vs CTHI

Low=64, Med=66, High=68
year=2003



New York Independent System Operator

ICAP 2003 Weather Normalization

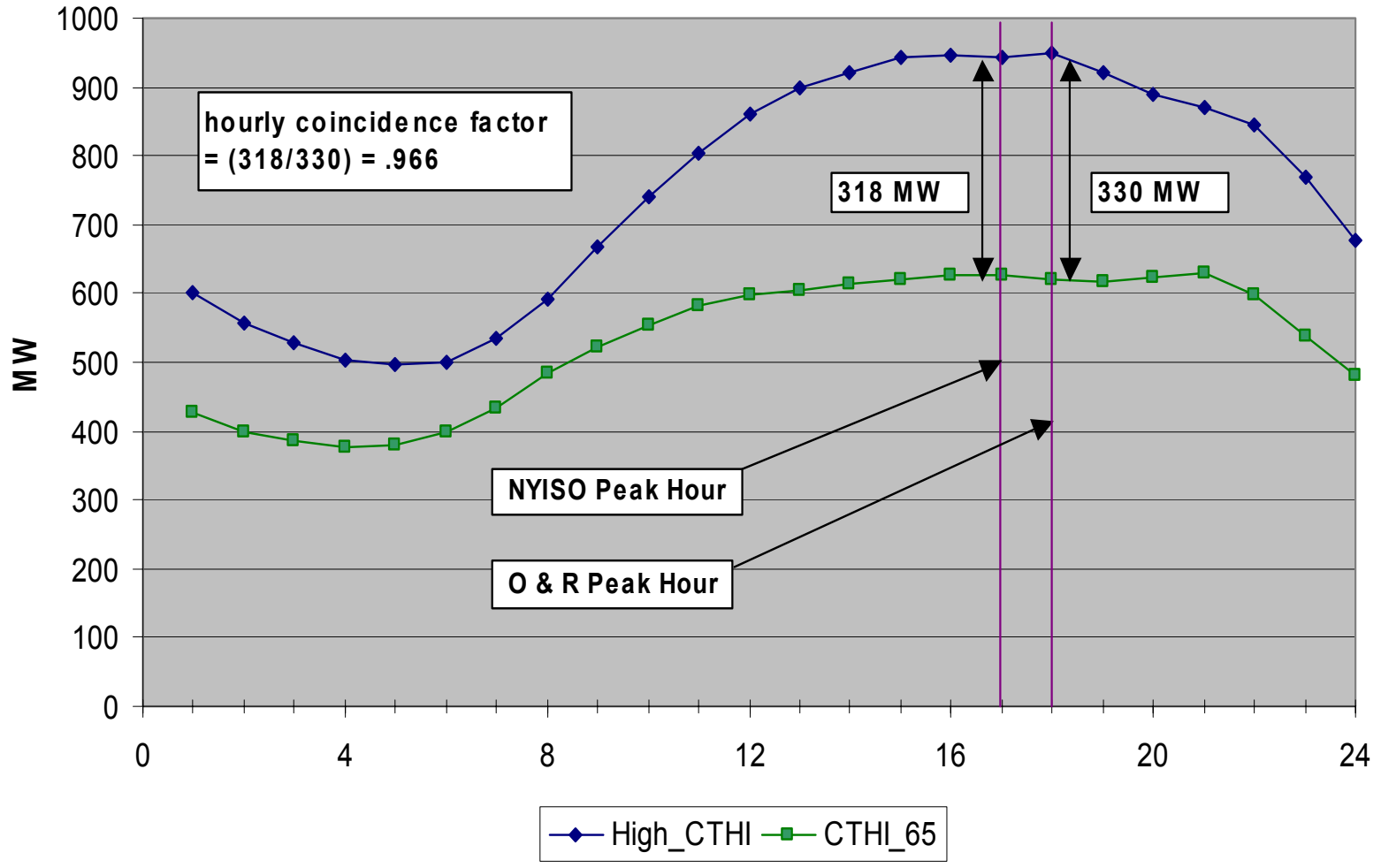
for Central Hudson

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

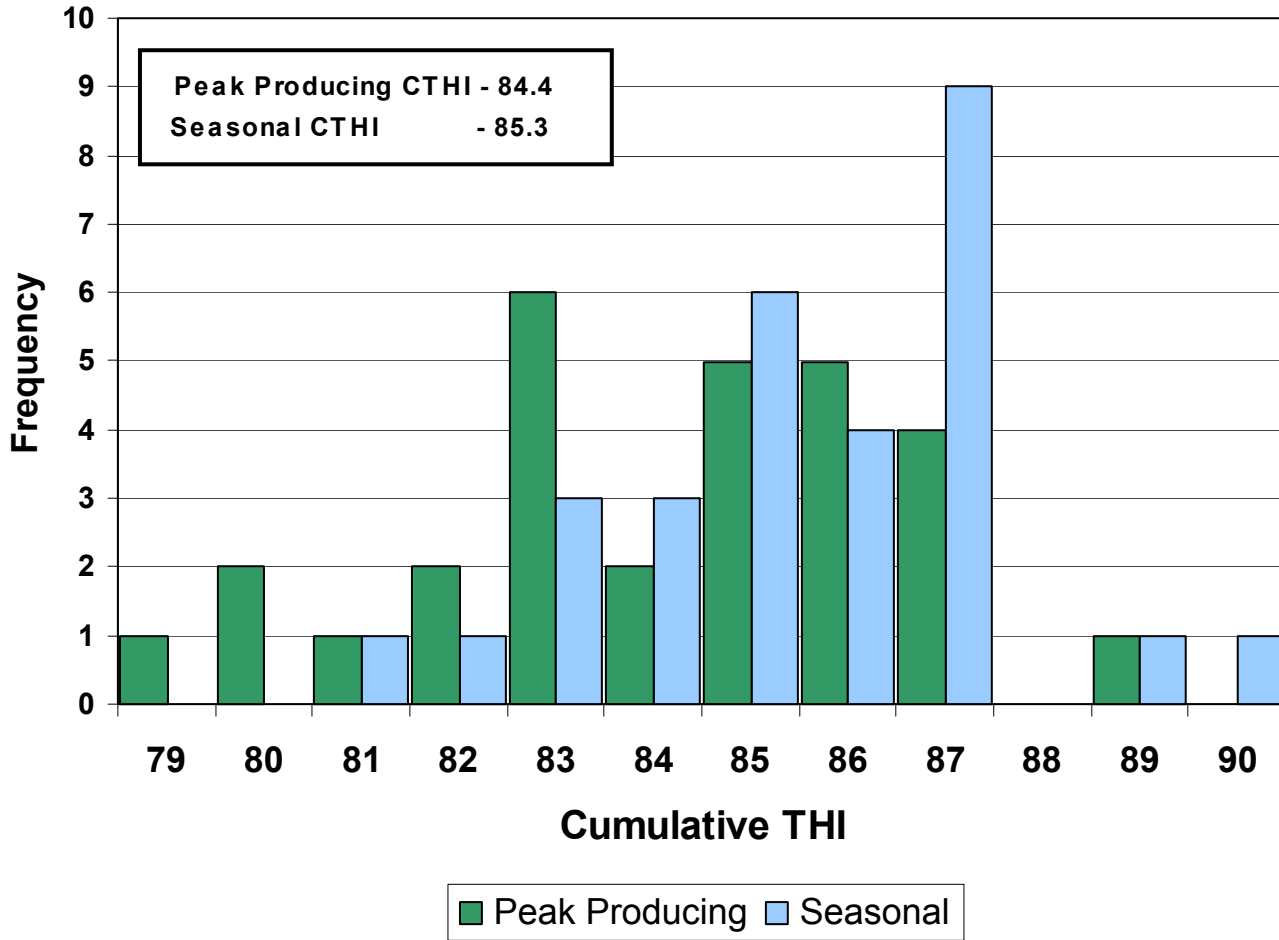
Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	83.8	F	
(b)	Actual CTHI	84.0	F	
(c)	Delta CTHI	-0.2	F	(a) - (b)
(d)	CTHI Coefficient	21.68	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	-4	MW	(c) * (d)
(f)	Hourly Coincidence Factor	1.000		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	-4	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	1078	MW	
(i)	Normal 2003 Coincident Load	1074		(g) + (h)

Orange & Rockland Reference Load Profiles - 2003

Reference Load Peaks at Hr 18, One Hour After NYISO Peak

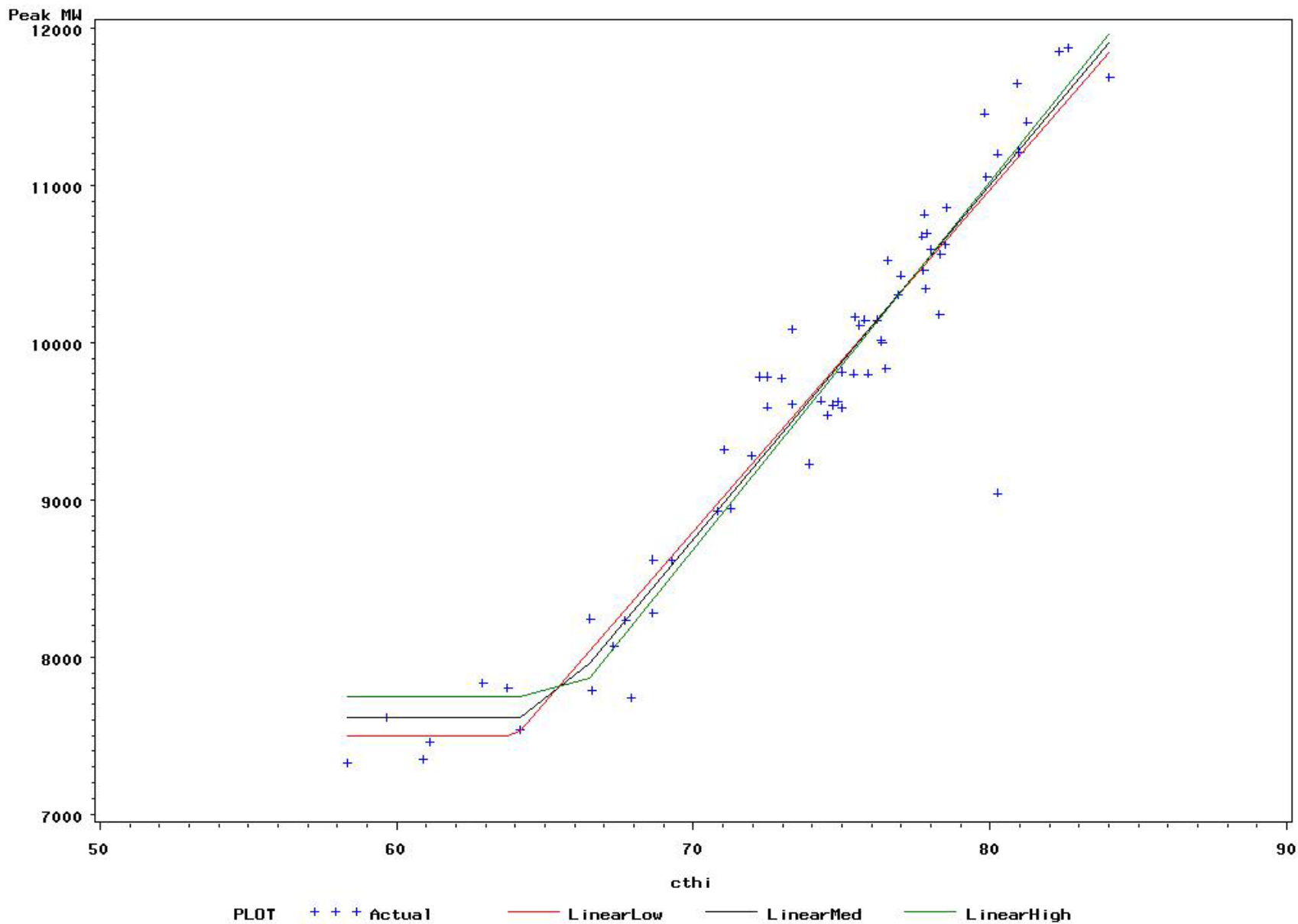


Consolidated Edison



Con Edison Summer Peak vs CTHI

Low=64, Med=65, High=66
year=2003



New York Independent System Operator

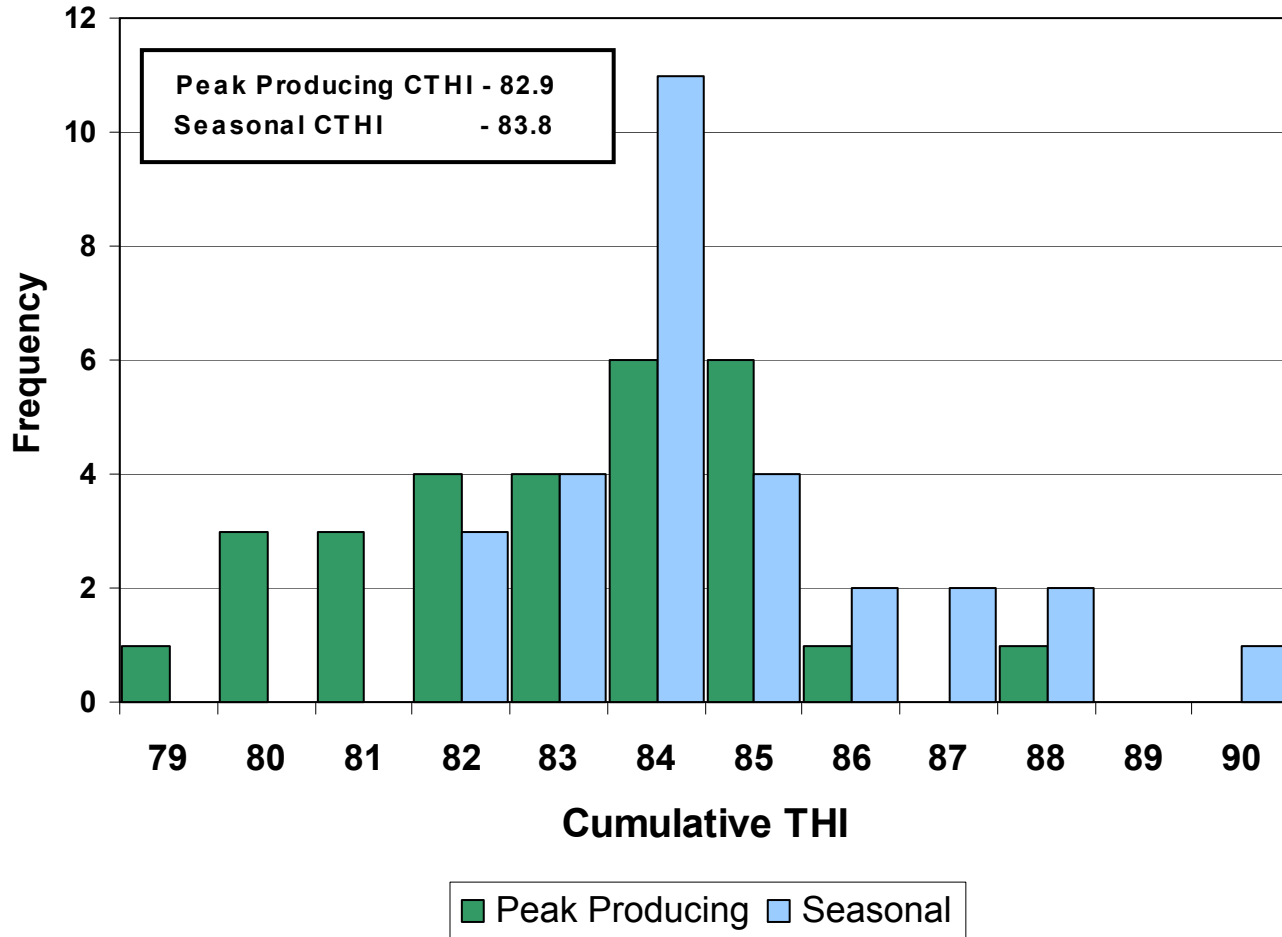
ICAP 2003 Weather Normalization

for Consolidated Edison

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

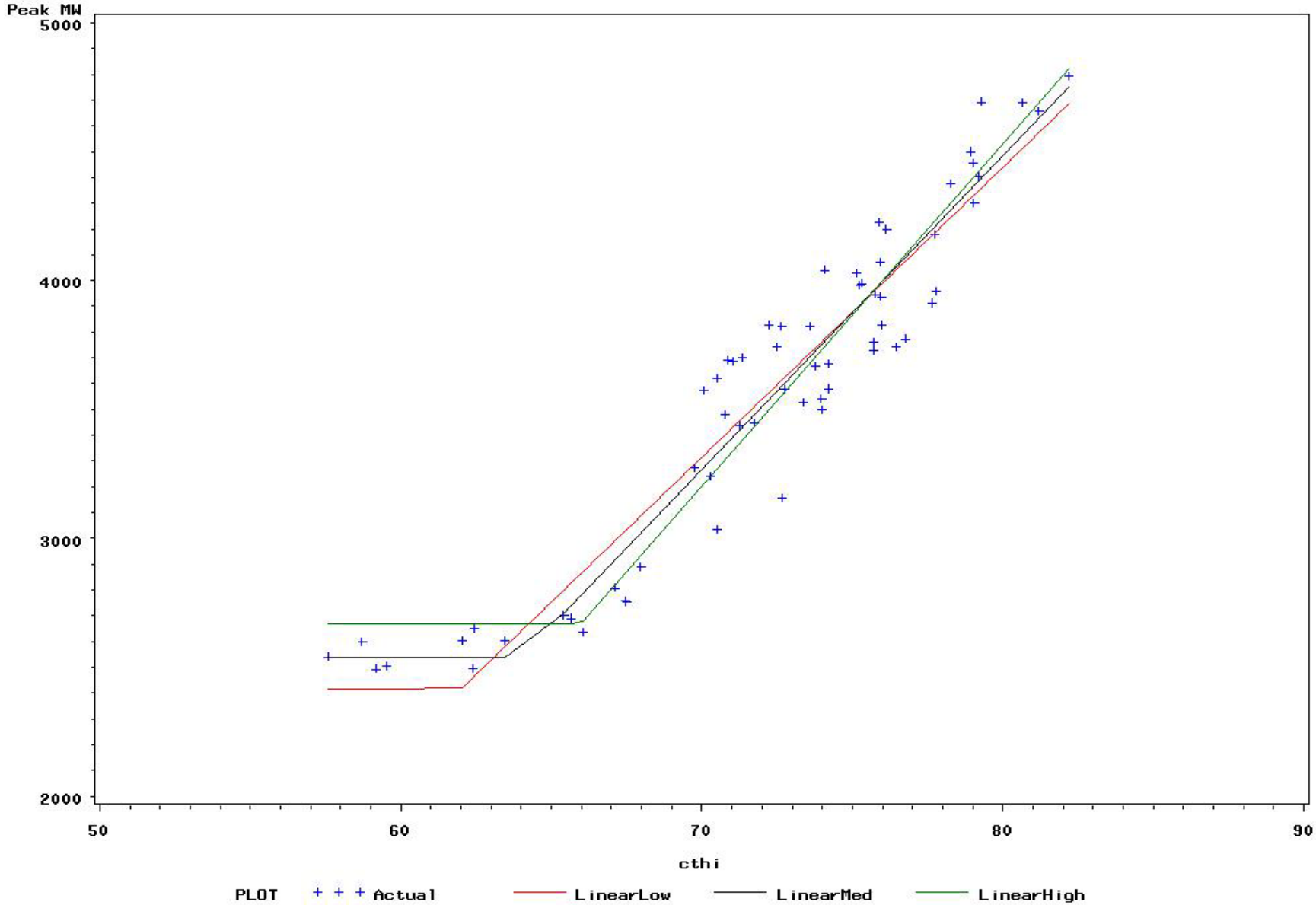
Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	84.4	F	
(b)	Actual CTHI	82.6	F	
(c)	Delta CTHI	1.8	F	(a) - (b)
(d)	CTHI Coefficient	225.5	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	406	MW	(c) * (d)
(f)	Hourly Coincidence Factor	0.996		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	404	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	11852	MW	
(i)	Normal 2003 Coincident Load	12256		(g) + (h)

Long Island Power Authority



Long Island Summer Peak vs CTHI

Low=62, Med=64, High=66
year=2003



New York Independent System Operator

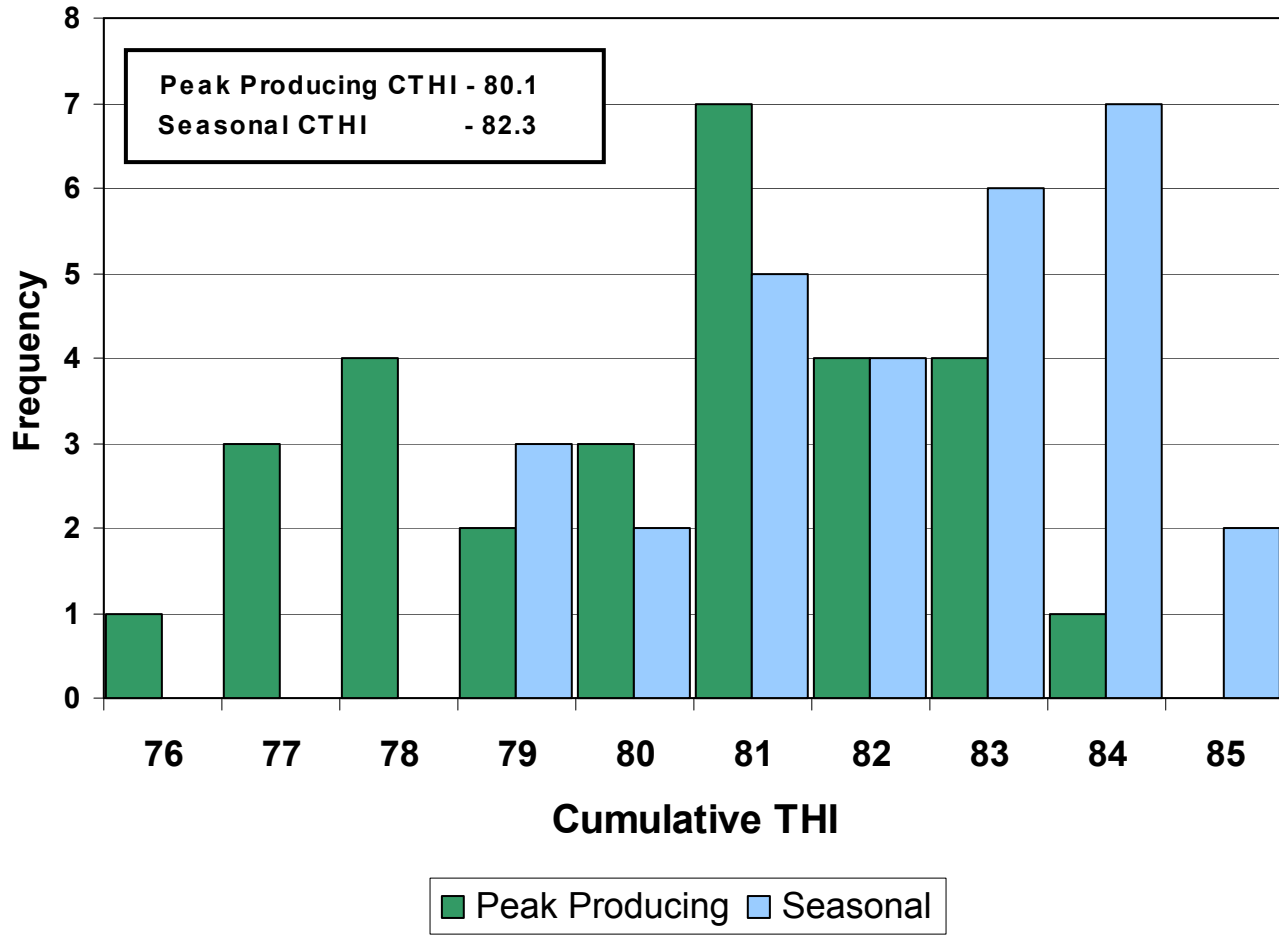
ICAP 2003 Weather Normalization

for Long Island Power Authority

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

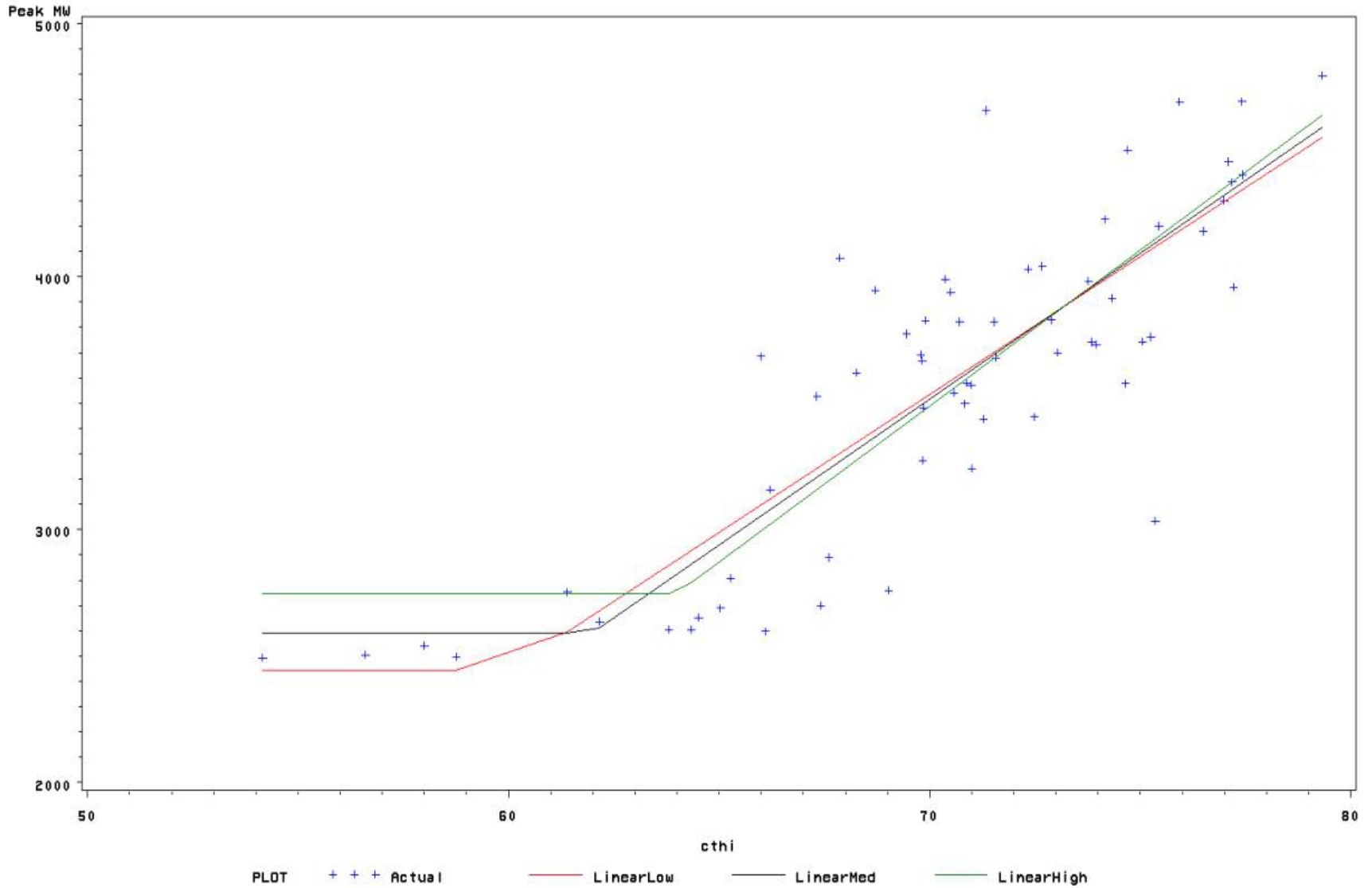
Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	82.9	F	
(b)	Actual CTHI	82.2	F	
(c)	Delta CTHI	0.7	F	(a) - (b)
(d)	CTHI Coefficient	121.8	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	85	MW	(c) * (d)
(f)	Hourly Coincidence Factor	1.000		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	85	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	4794	MW	
(i)	Normal 2003 Coincident Load	4879		(g) + (h)

New York State Electric & Gas



NYSEG Summer Peak vs CTHI

Low=60, Med=62, High=64
year=2003



New York Independent System Operator

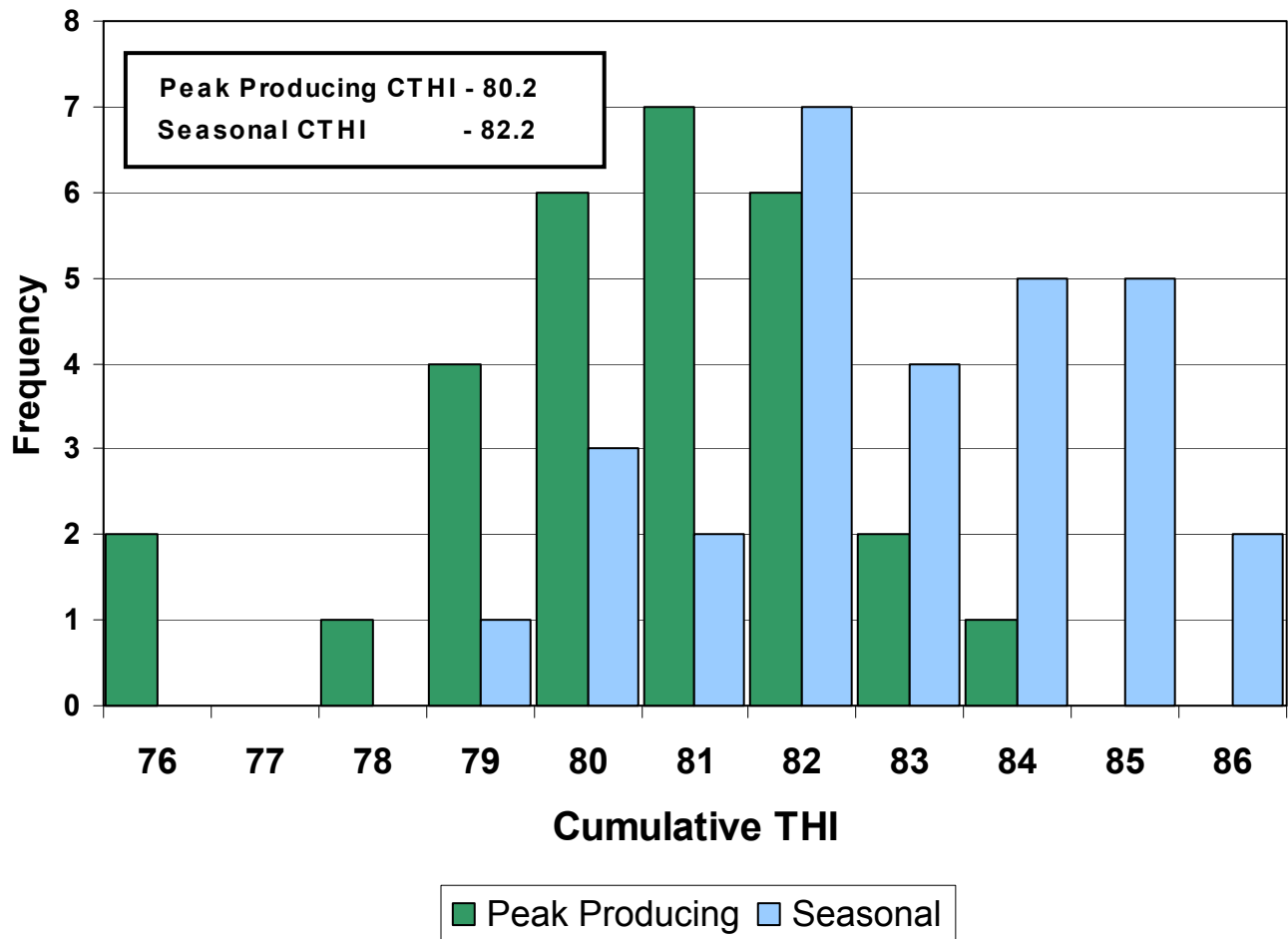
ICAP 2003 Weather Normalization

for New York State Electric and Gas

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

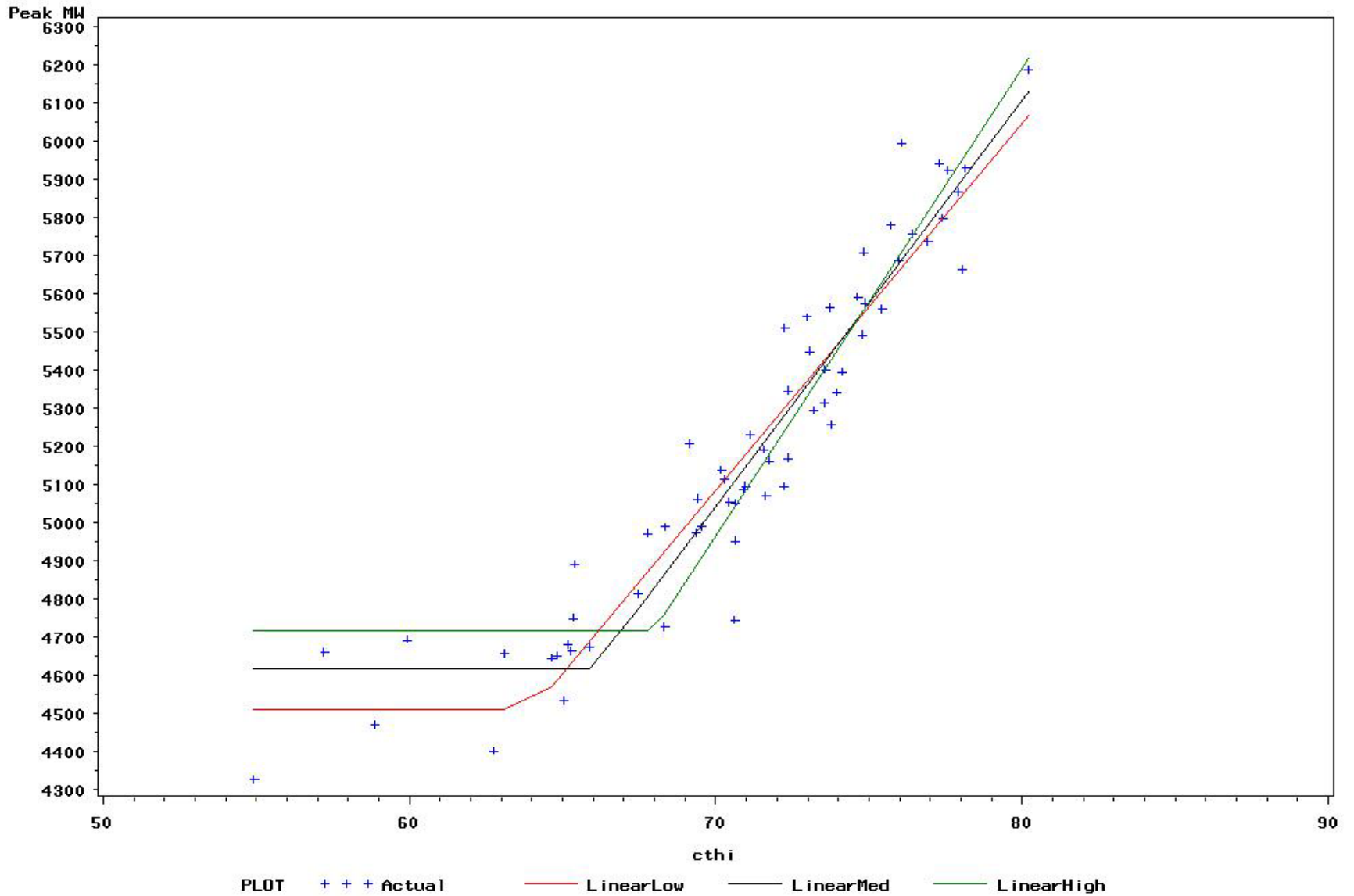
Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	80.1	F	
(b)	Actual CTHI	79.3	F	
(c)	Delta CTHI	0.8	F	(a) - (b)
(d)	CTHI Coefficient	115.4	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	92	MW	(c) * (d)
(f)	Hourly Coincidence Factor	1.000		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	92	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	2501	MW	
(i)	Normal 2003 Coincident Load	2593		(g) + (h)

Niagara Mohawk



Niagara Mohawk Summer Peak vs CTHI

Low=64, Med=66, High=68
year=2003



New York Independent System Operator

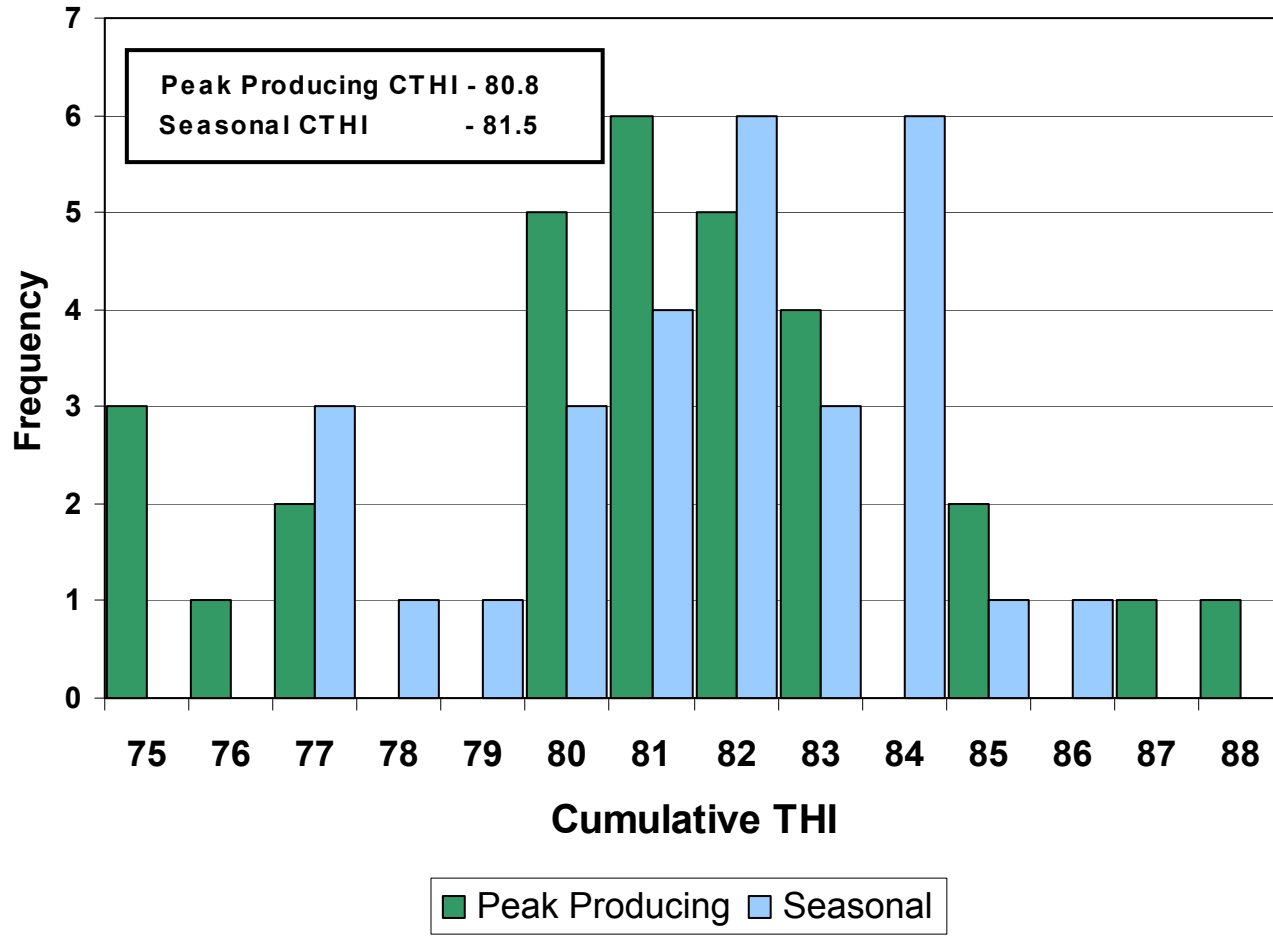
ICAP 2003 Weather Normalization

for Niagara Mohawk

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

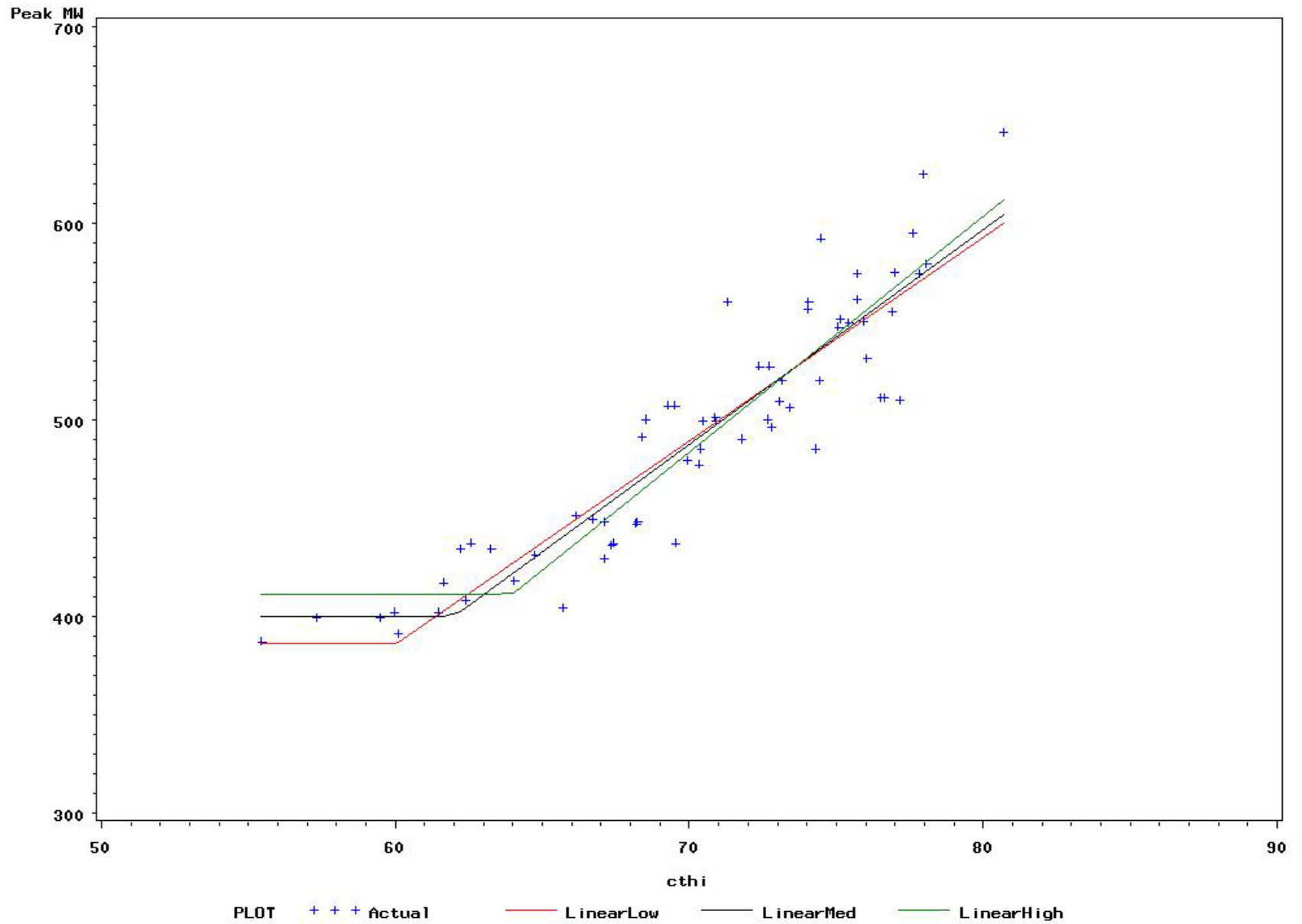
Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	80.2	F	
(b)	Actual CTHI	80.2	F	
(c)	Delta CTHI	0	F	(a) - (b)
(d)	CTHI Coefficient	106.5	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	0	MW	(c) * (d)
(f)	Hourly Coincidence Factor	1.000		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	0	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	6127	MW	
(i)	Normal 2003 Coincident Load	6127		(g) + (h)

Orange & Rockland



Orange & Rockland Summer Peak vs CTHI

Low=60, Med=62, High=64
year=1975



New York Independent System Operator

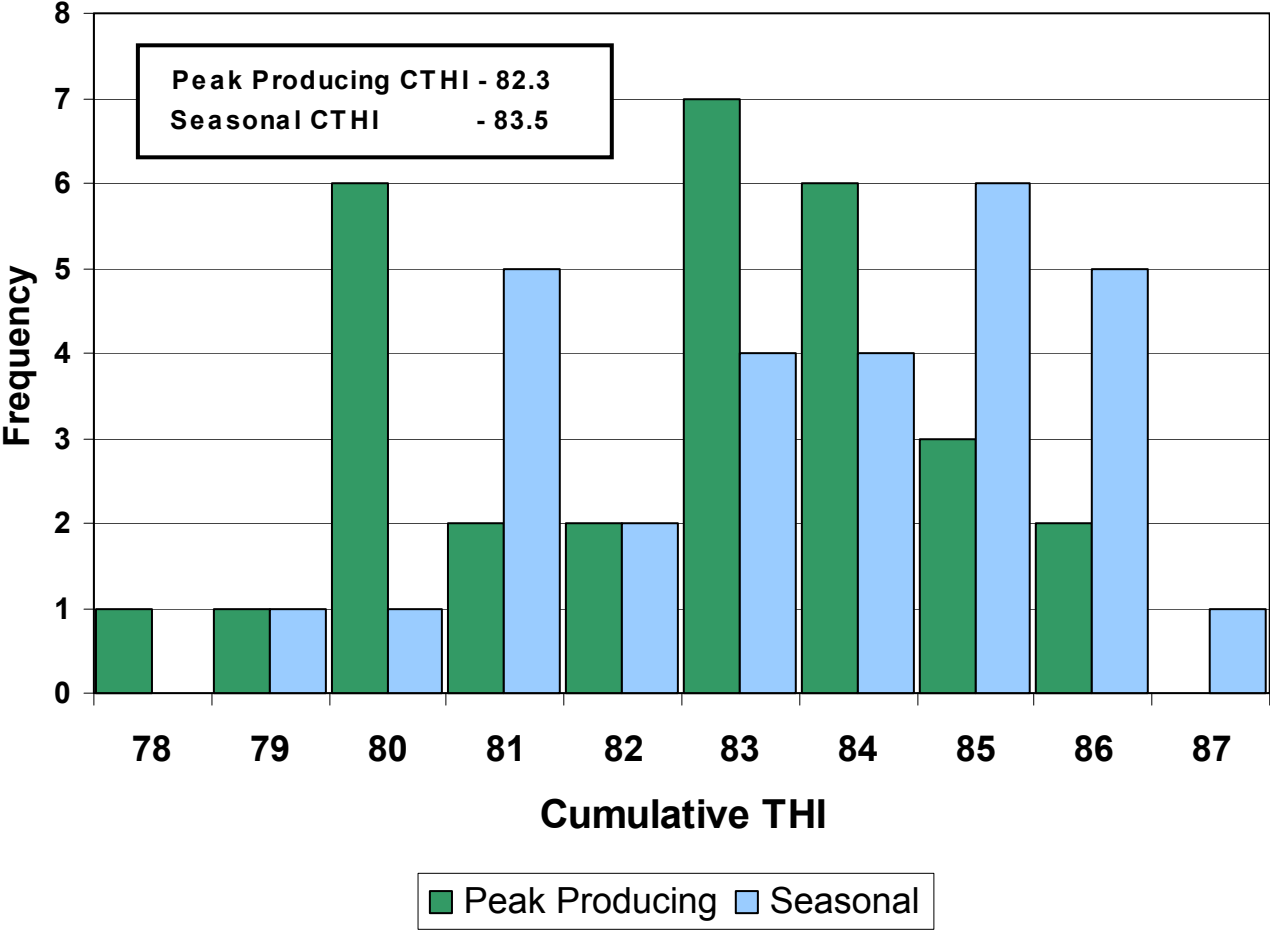
ICAP 2003 Weather Normalization

for Orange & Rockland

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

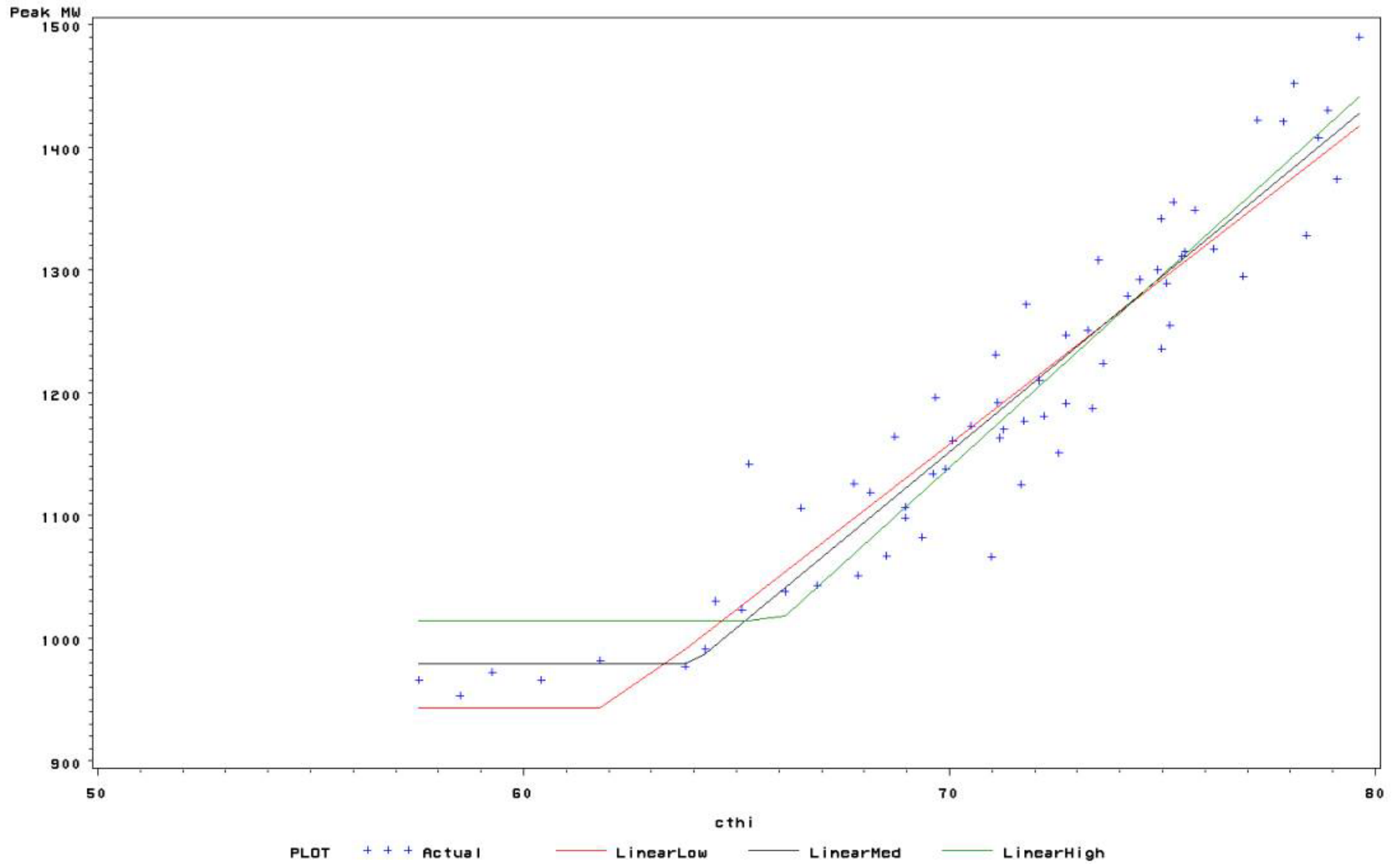
Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	80.8	F	
(b)	Actual CTHI	79.9	F	
(c)	Delta CTHI	0.9	F	(a) - (b)
(d)	CTHI Coefficient	23.4	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	21	MW	(c) * (d)
(f)	Hourly Coincidence Factor	0.966		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	20	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	995	MW	
(i)	Normal 2003 Coincident Load	1015		(g) + (h)

Rochester Gas & Electric



Rochester Summer Peak vs CTHI

Low=62, Med=64, High=66
year=2003



New York Independent System Operator

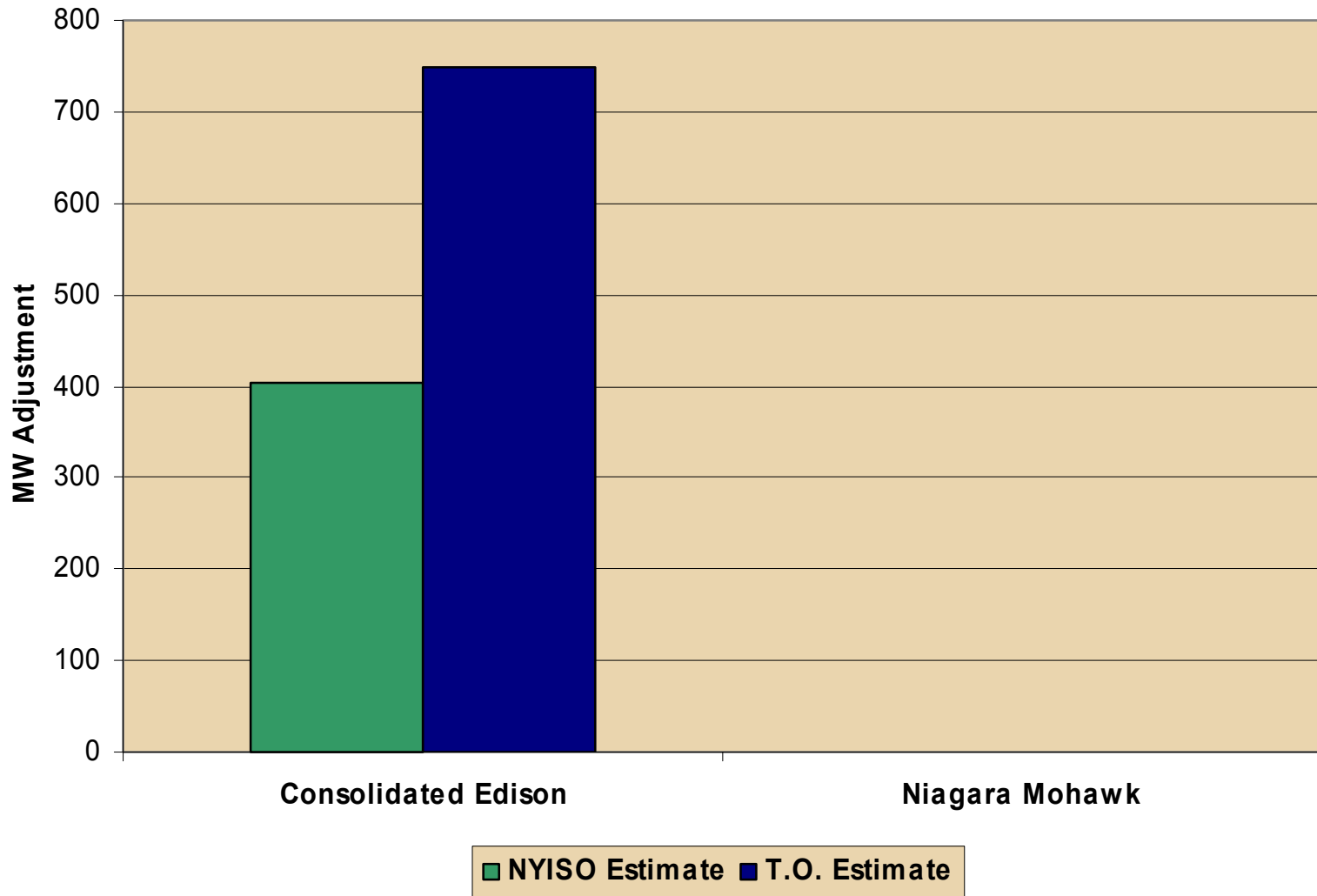
ICAP 2003 Weather Normalization

for Rochester Gas & Electric

(1) Estimate of 2003 & 2004 Weather Normalized Coincident Peak Demand

Row	Description	Value	Units	Notes
(a)	Normal CTHI, 1-in-2 Design Value	82.2	F	
(b)	Actual CTHI	79.6	F	
(c)	Delta CTHI	2.6	F	(a) - (b)
(d)	CTHI Coefficient	28.7	MW/F	from regression model
(e)	MW Adjustment, Peak Hour	75	MW	(c) * (d)
(f)	Hourly Coincidence Factor	1.013		from reference load profiles
(g)	MW Adjustment, at Coincident Hour	76	MW	(e) * (f)
(h)	Actual 2003 Coincident Load	1485	MW	
(i)	Normal 2003 Coincident Load	1561		(g) + (h)

Comparison of Weather Adjustments to 2003 Coincident Load



Comparison of Weather Adjustments to 2003 Coincident Load

