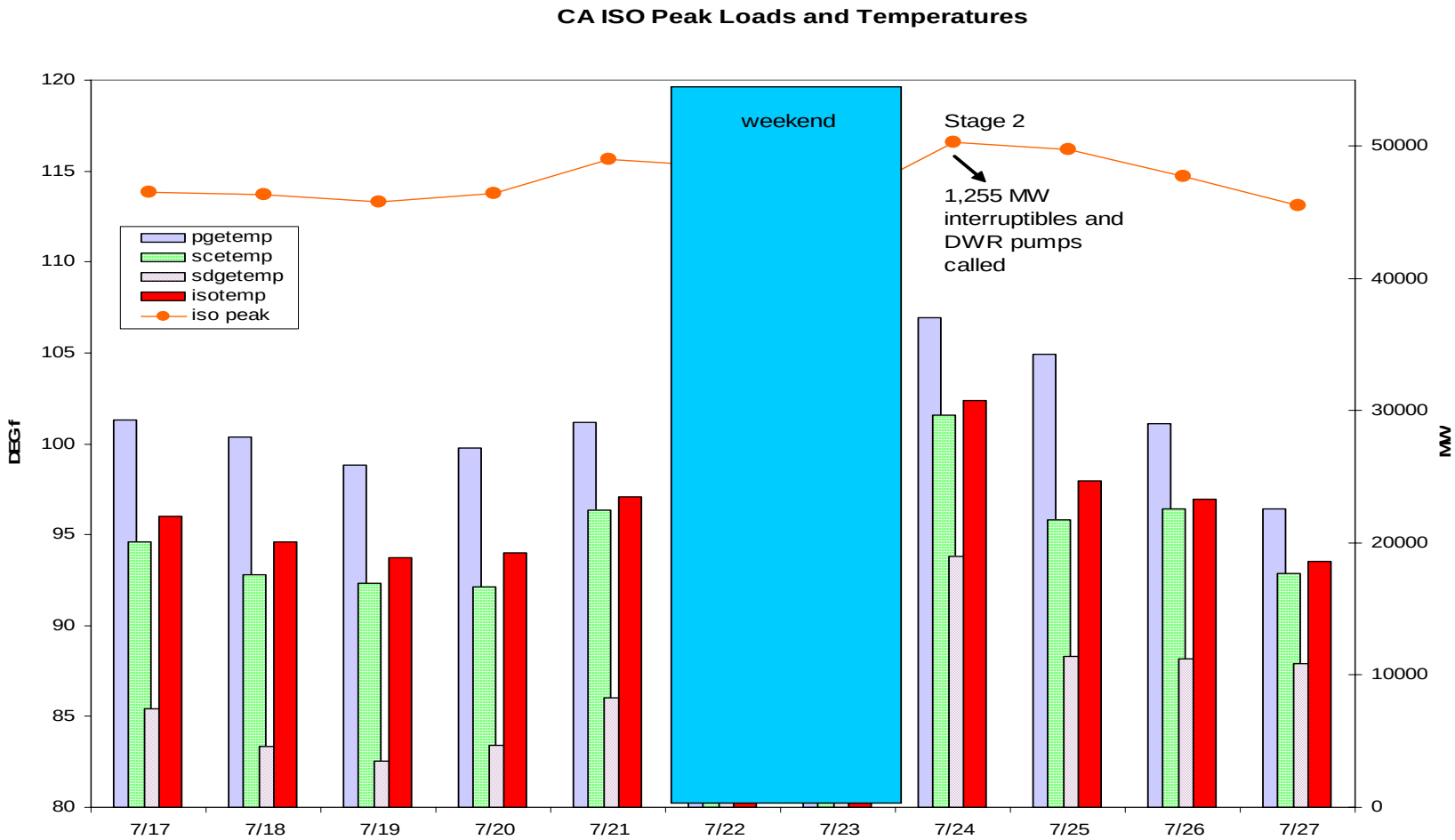
Summer Heat Storm
July 2006
Preliminary Temperature and Peak Forecast Comparisons

California Energy Commission

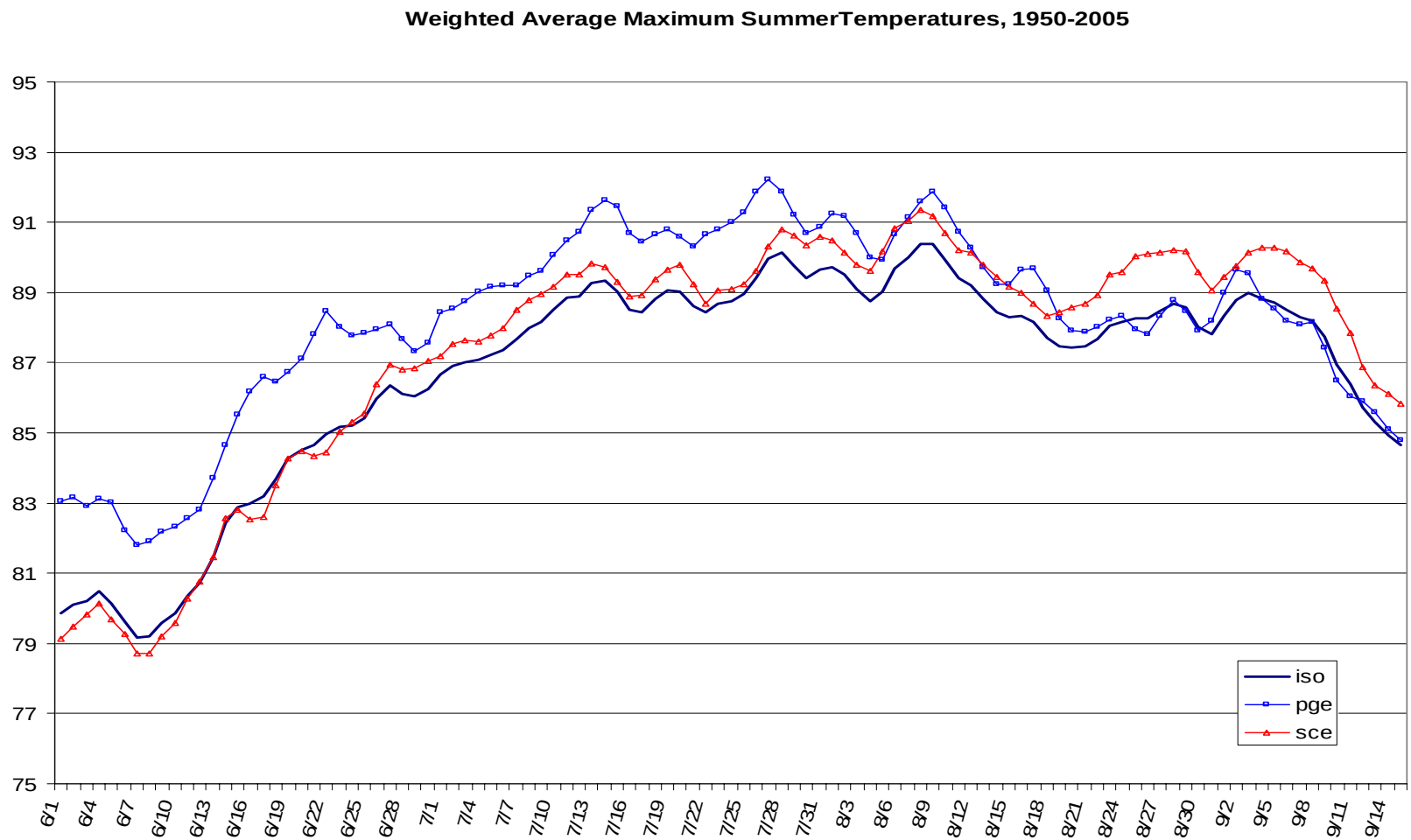
Demand Analysis Office

August 1, 2006

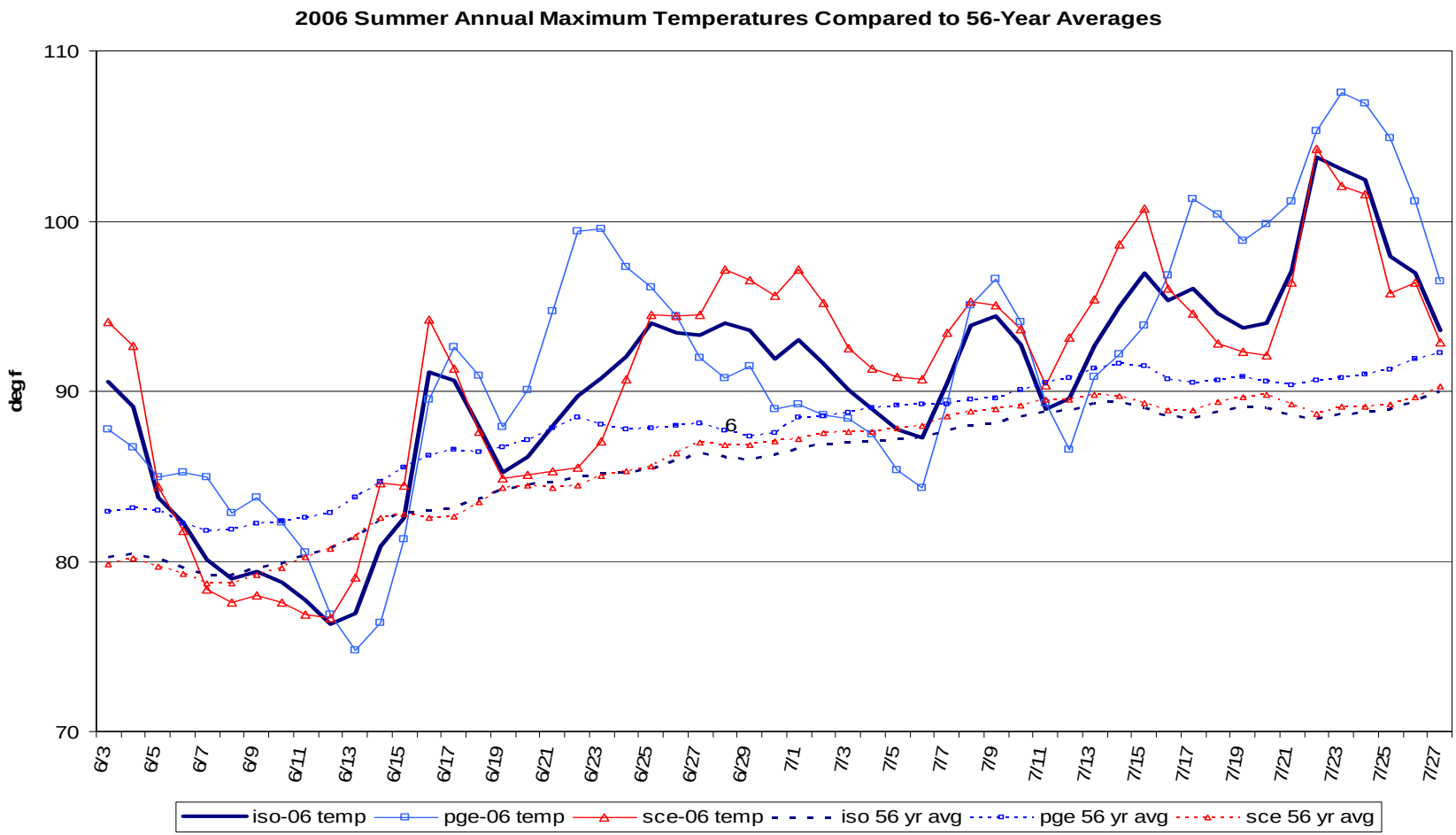
Summer 2006 Heat Storm, July 17-27



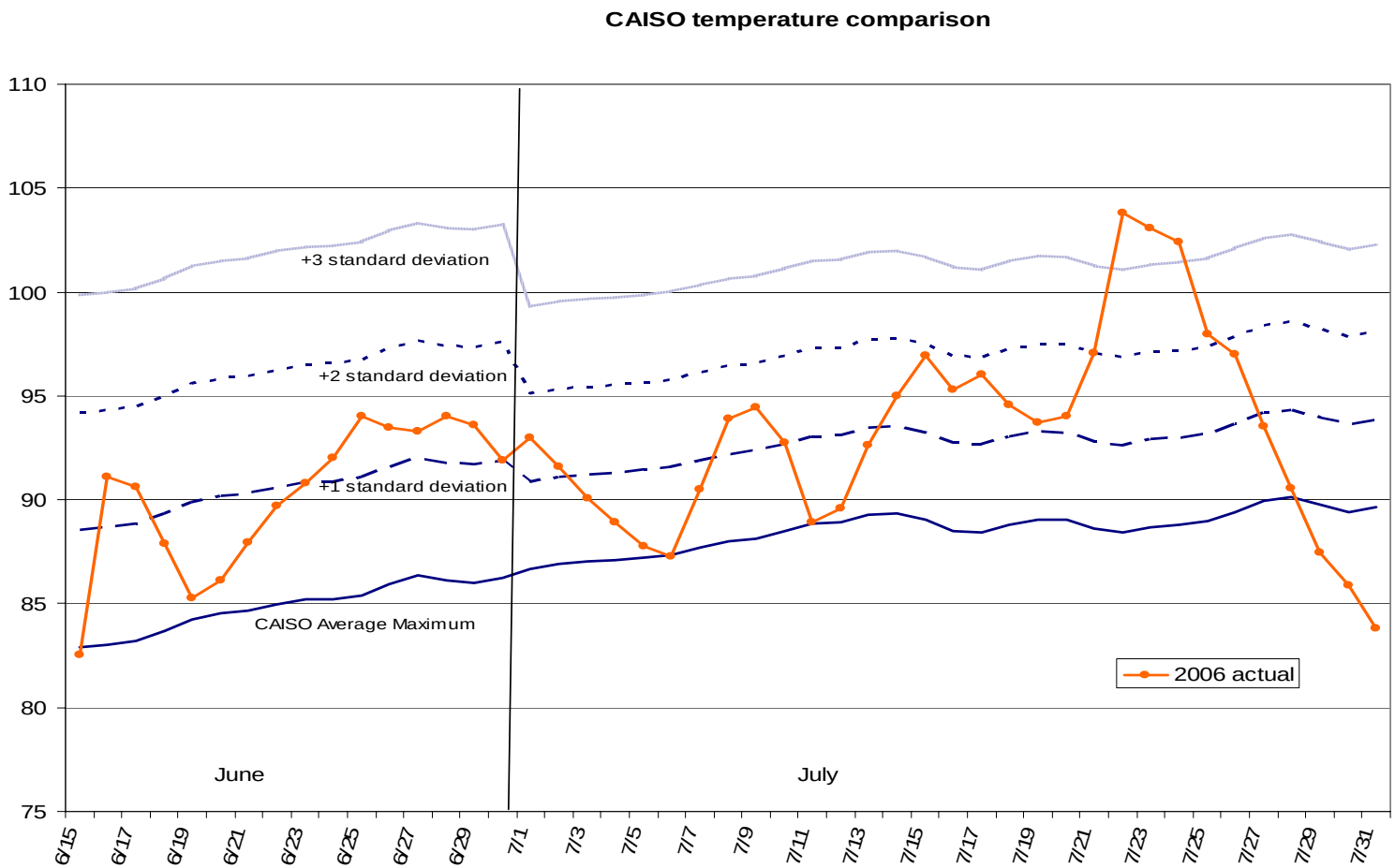
Northern and Southern California tend to peak at different times



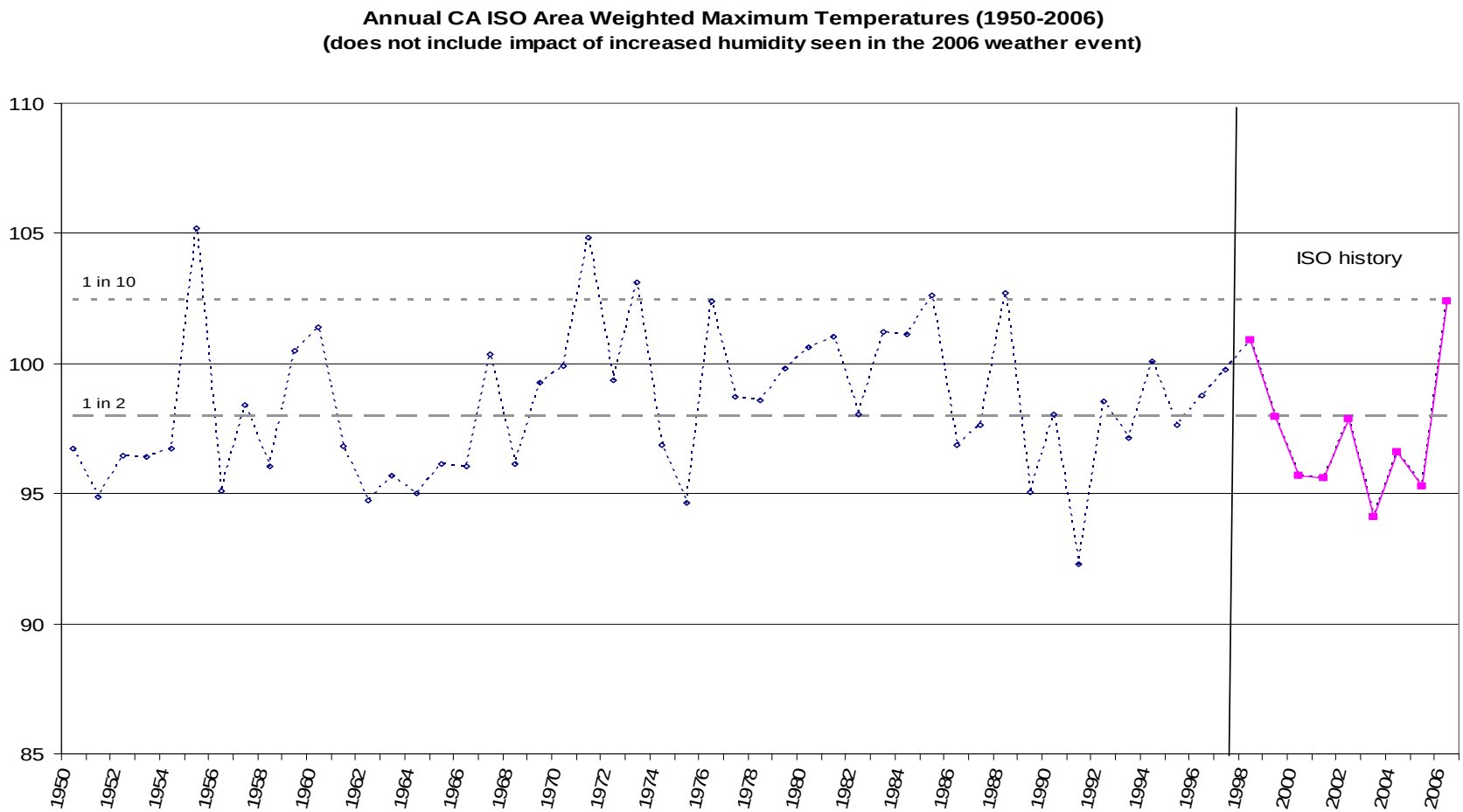
Summer 2006 has been above normal since June



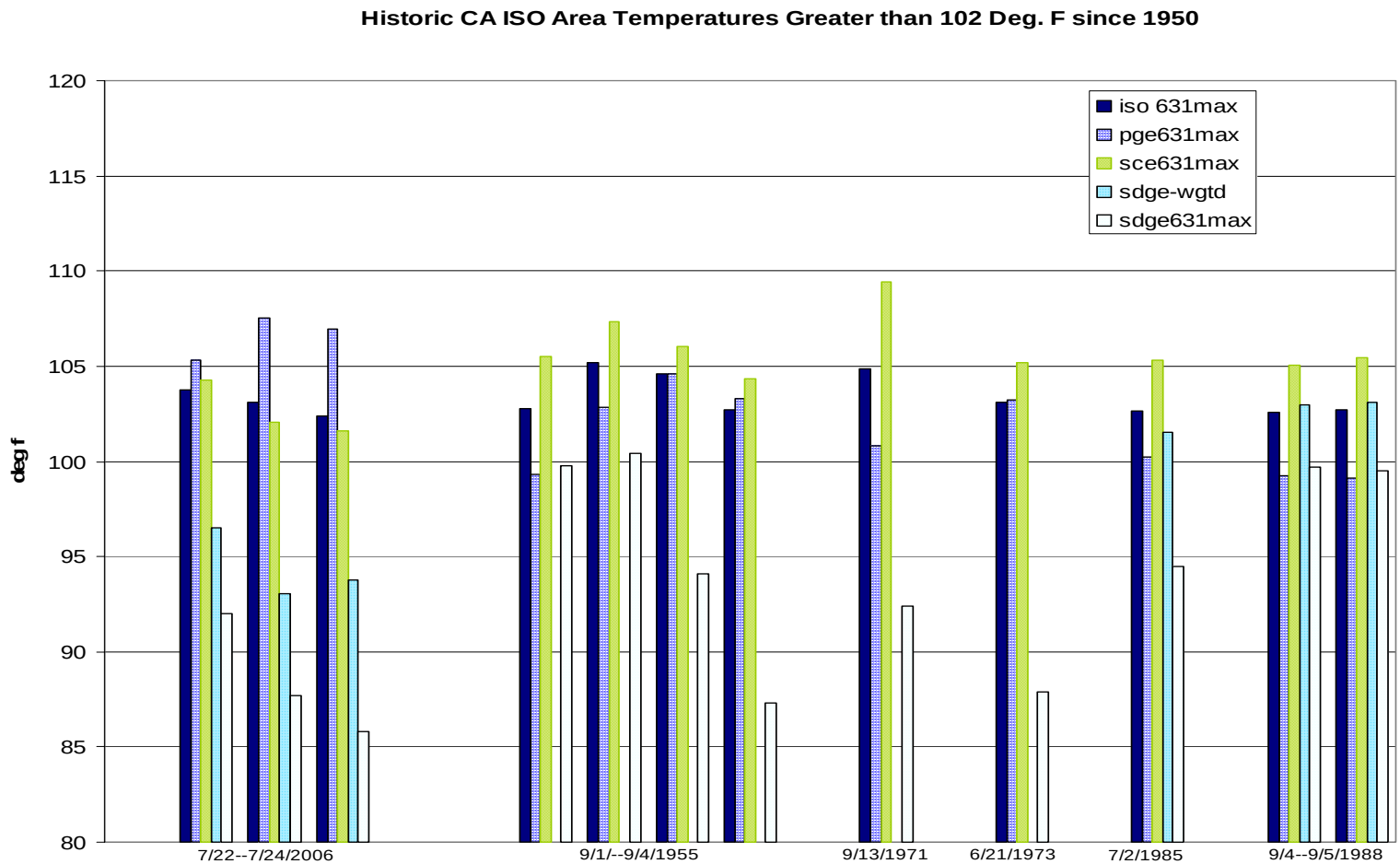
CA ISO temperatures were more then 3 standard deviations above normal



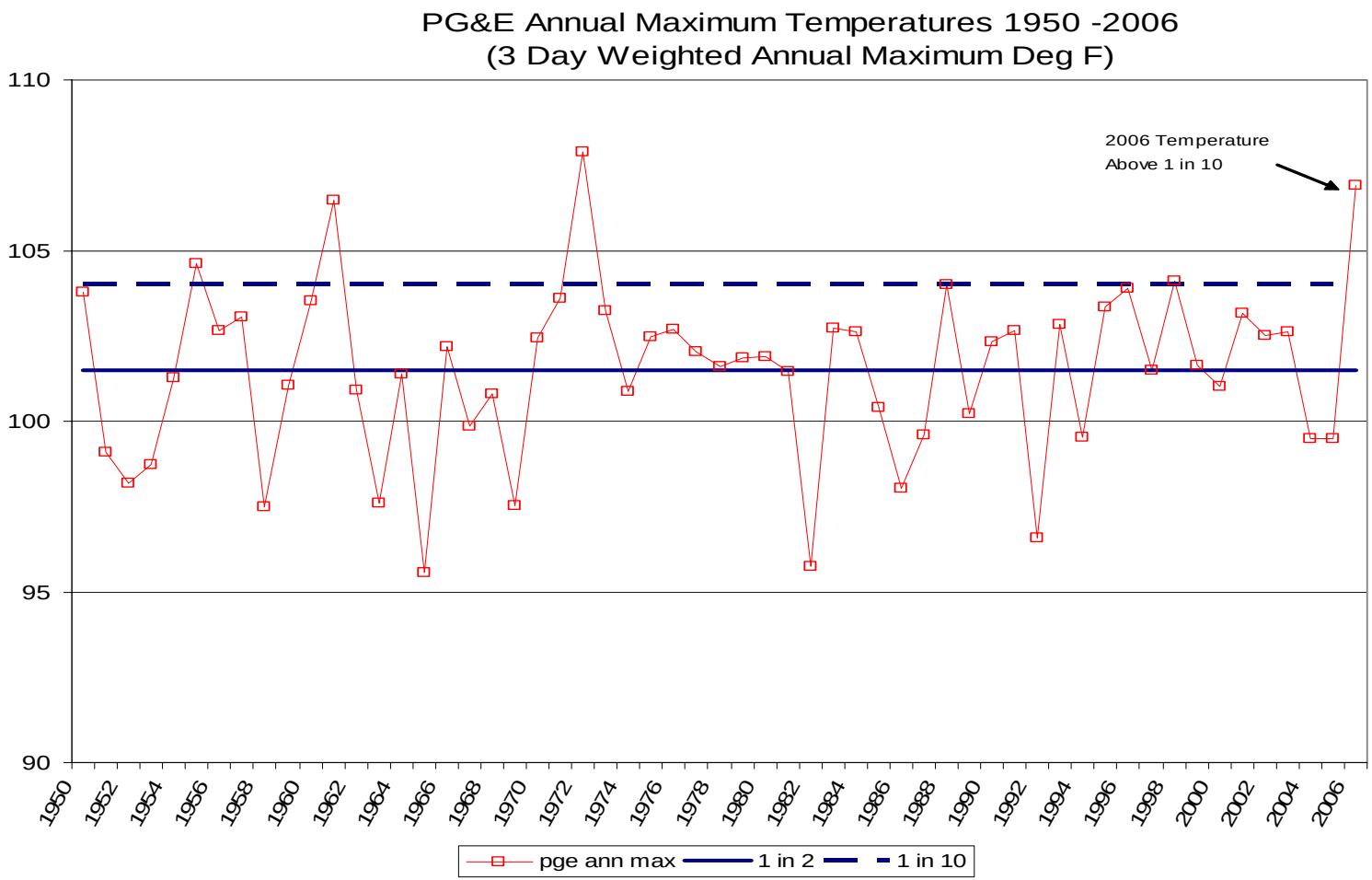
Recent temperature record has been cooler than normal



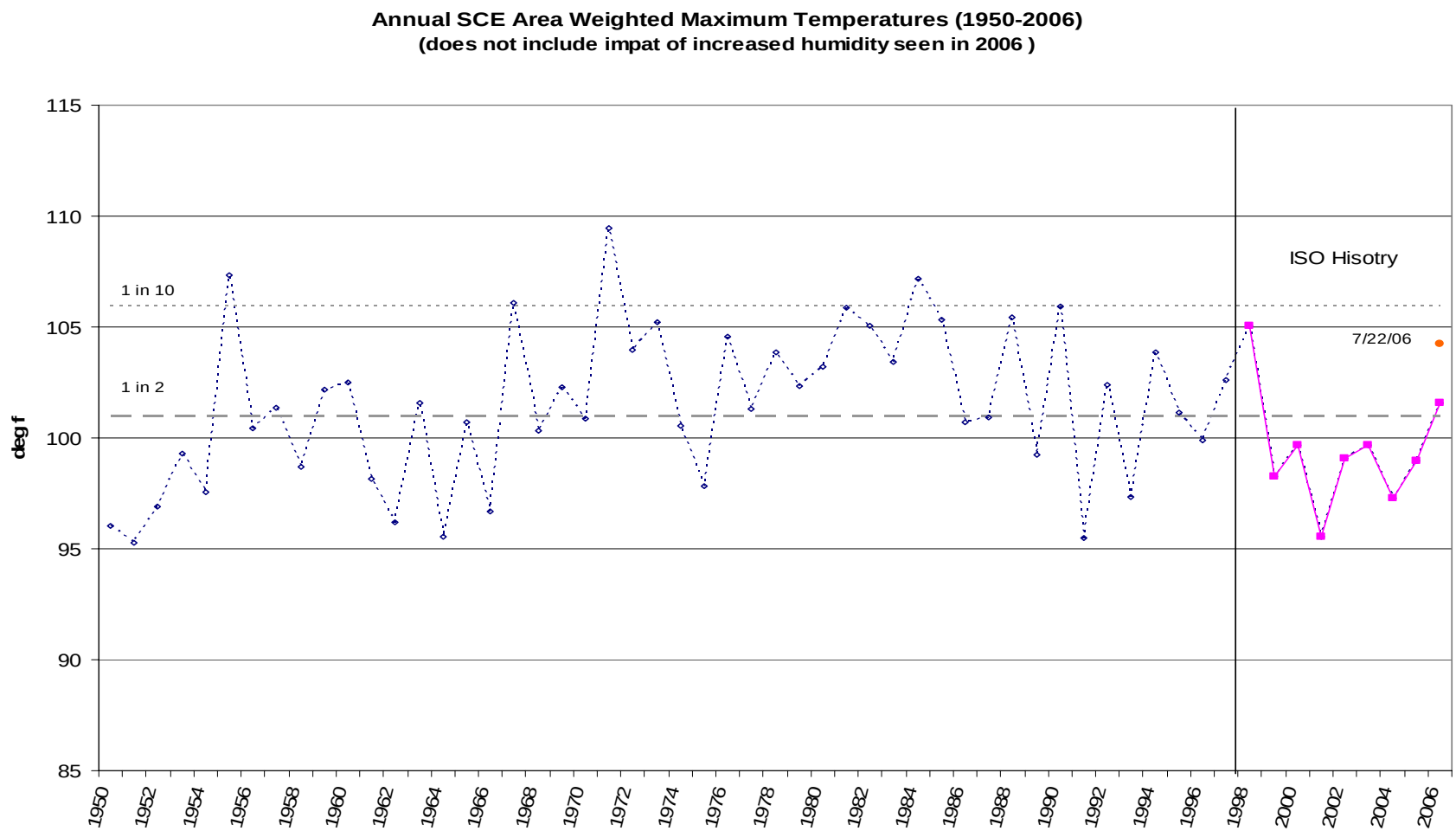
Extreme events have happened before, but not with PG&E driving peak



PG&E's maximum temperature was above a 1 in 10 event



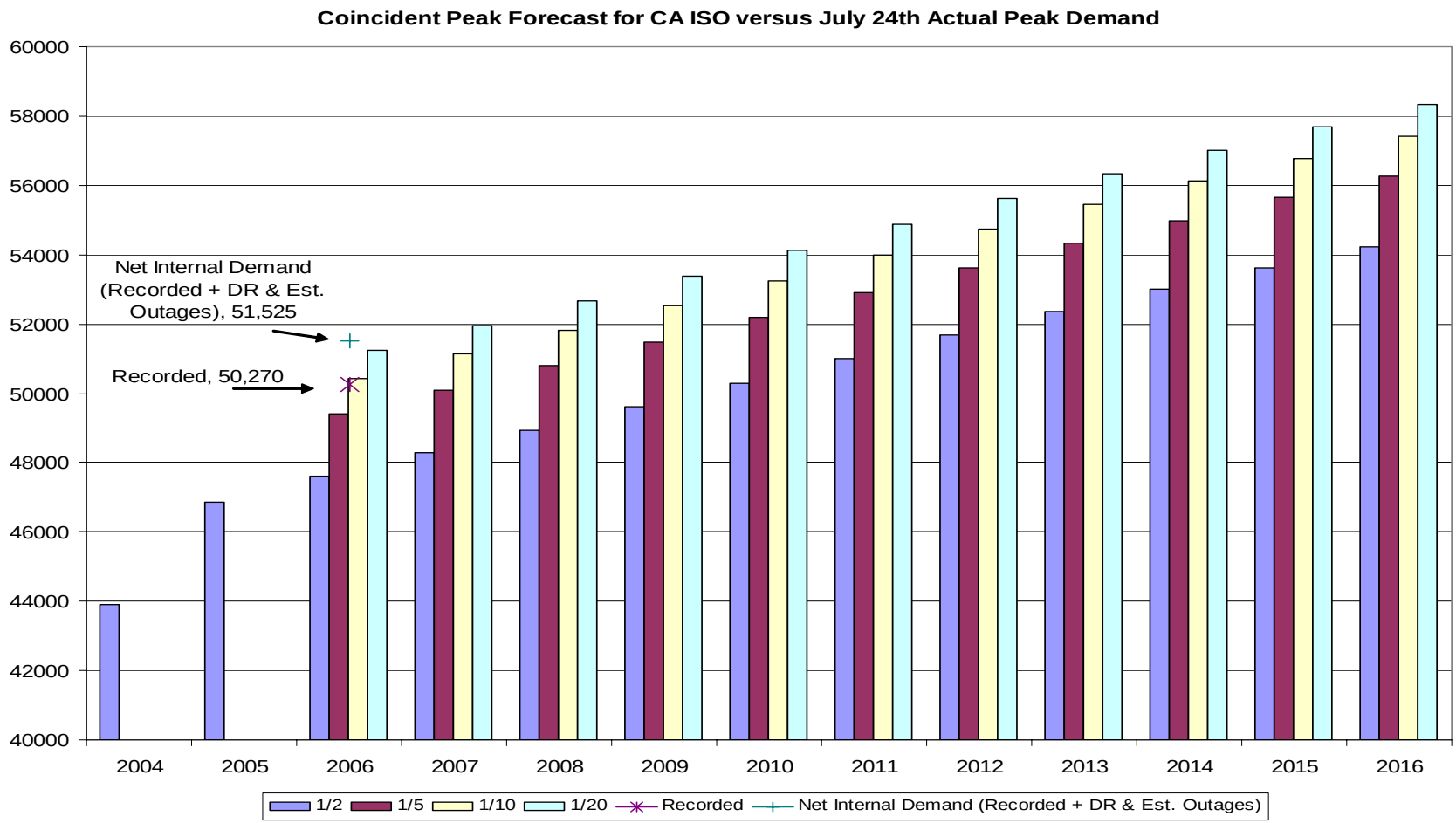
SCE's temperatures were also higher than recent history



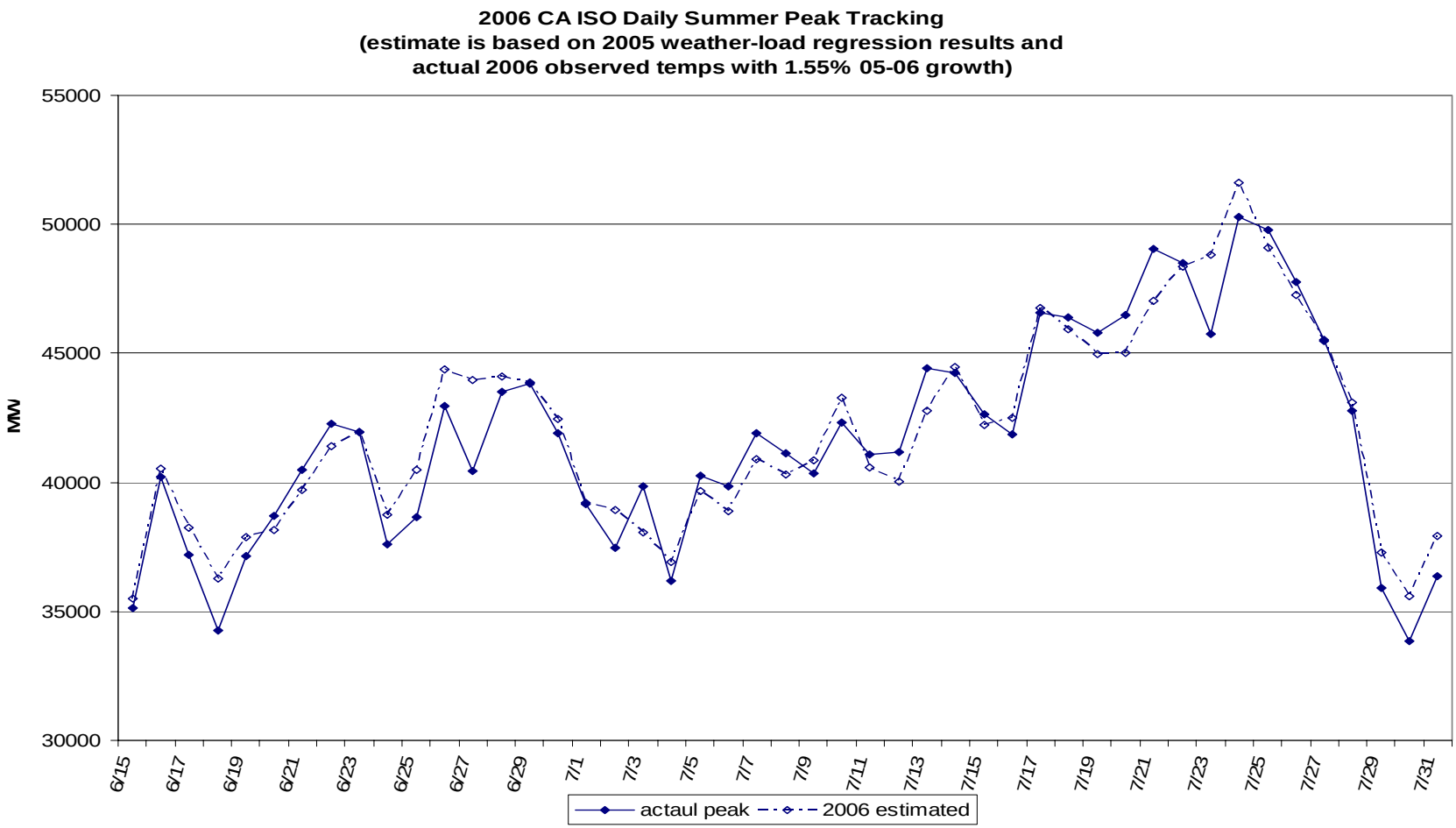
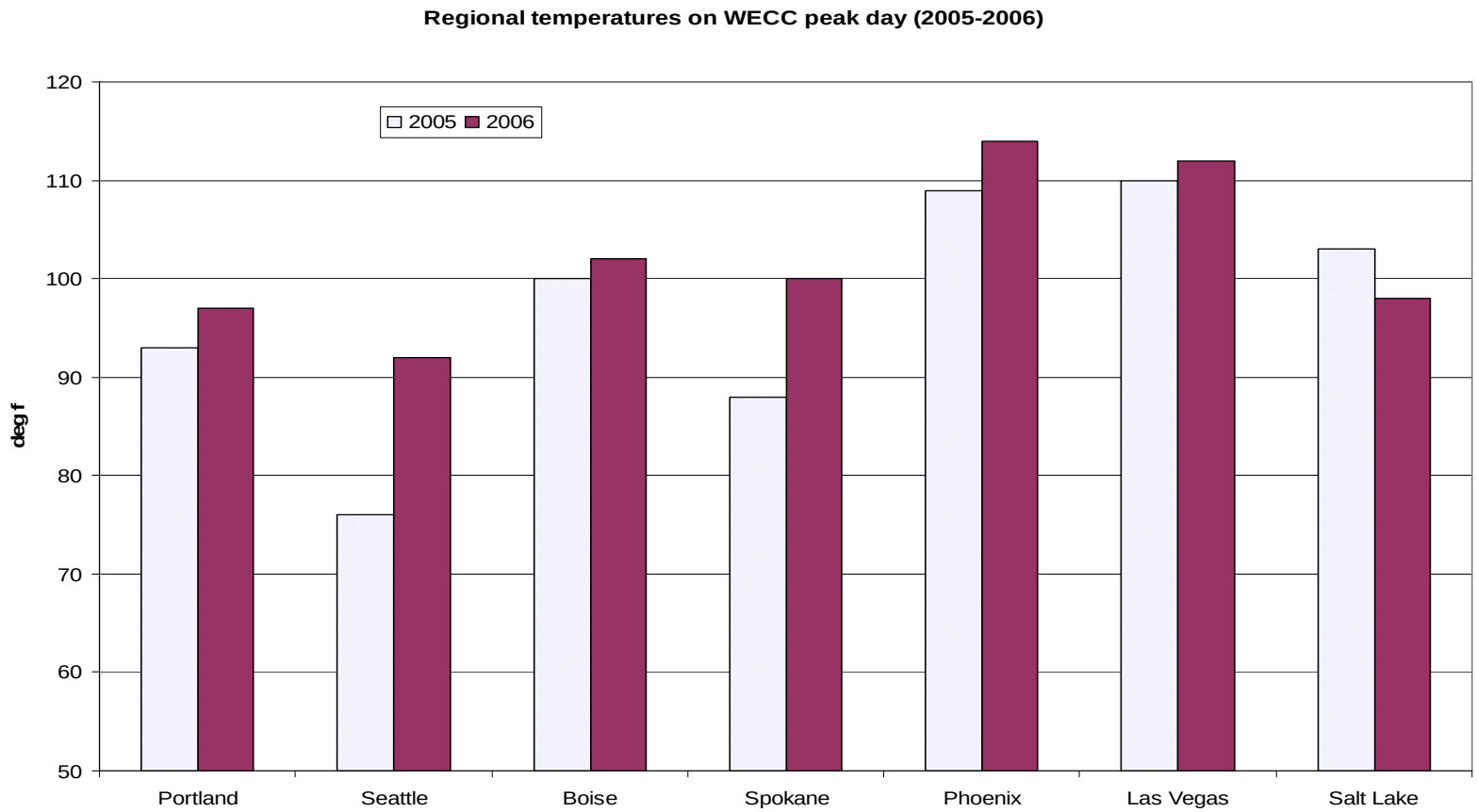
Loads and Temperature Probabilities

Forecast v. Actual Peak Demand (MW) on July 24th, 2006						
	Recorded Peak Demand	Net Internal (Recorded + DR + Est. Outages)	Predicted with actual temperatures	6/29 Forecast Update	Percent Dif. Net Internal Load/ Predicted*	Prob. Of Temps
CAISO	50,270	51,525	51,752		-0.4%	1/20
PGE PLANNING AREA	22,497	23,325	na	23,305	0.1%	1/20
SCE Planning Area	22,816	23,596	24,131		-2.2%	3/20
SDGE	4,470	4,499	4,444		1.2%	1/2
LADWP Control Area	6,807	6,813		6,732	1.2%	1/5
IID	939	939		930	1.0%	1/10?
SMUD Control Area	4,906	4,916		4,695	4.7%	1/10?
SMUD Service Area	3,299	3,309		3,297	0.4%	1/10
TID Control Area	612	612				
Statewide Noncoinc. Peak	63,534	64,805				

July 24 load is consistent with an adverse weather event for 2006



2006 loads track to 2005 forecasted temperature-load relationships



Western temperatures were hotter on the peak load day in 2006 than 2005