Cornell Life Sciences Initiative
$500 Million total investment

Duffield Hall

- currently under construction for ‘04
- $58.5M
- 150,000 sq. ft.
- energy cost estimated ~ $30/gsf/yr

Cornell Life Sciences Initiative
$500 Million total investment

Transgenic Mouse

- planned for 2005
- $18-20 Million
- 5,000 sq. ft.
- dnergy cost $4-5/sq. ft./yr

Cornell Life Sciences Initiative
$500 Million total investment

Life Sciences Technology Building

- planned for 2006
- $110 Million
- 240,000 sq. ft.
- energy cost ~ $7/sq. ft/yr

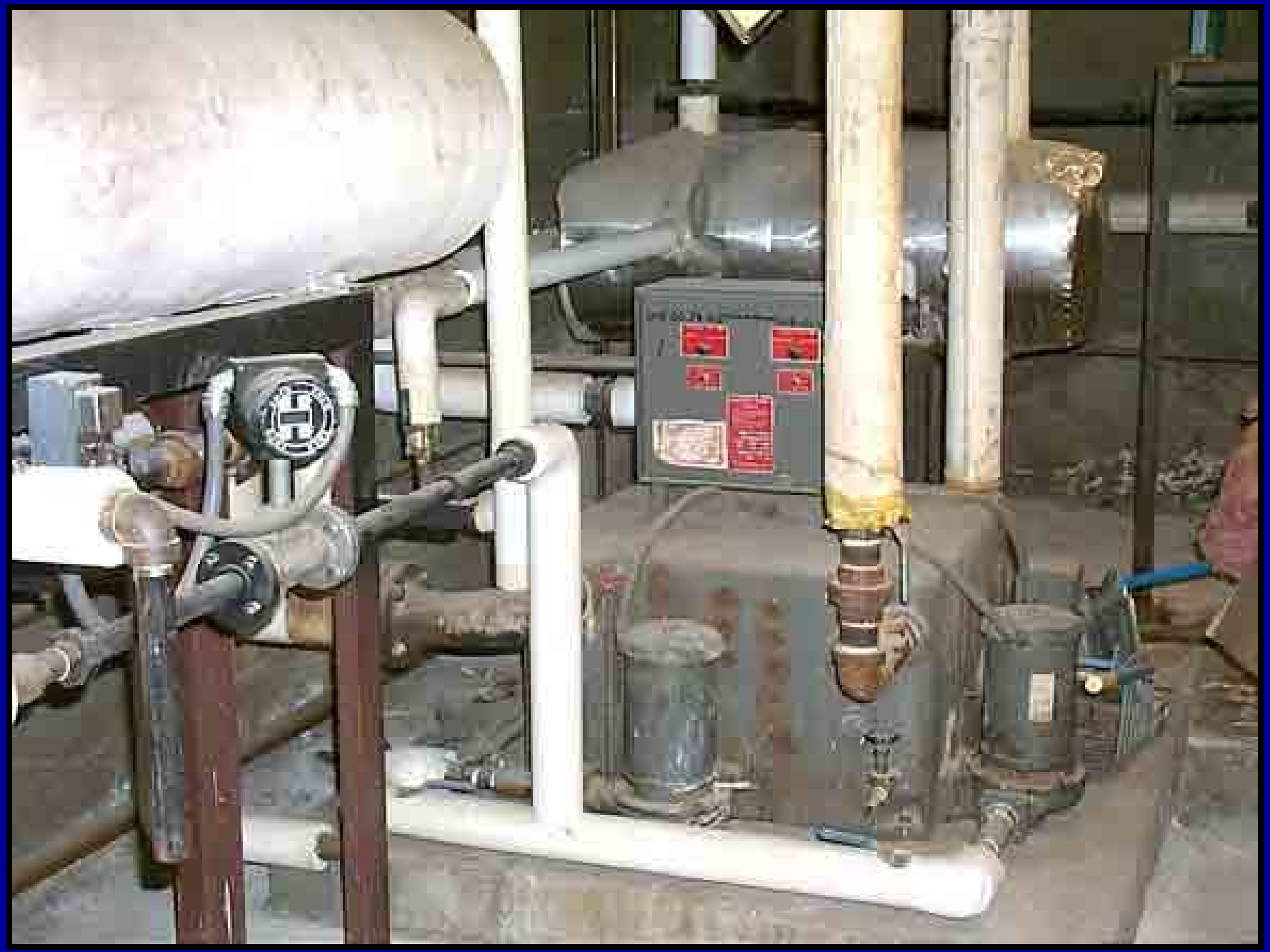
flammable
keep fire away

flammable
keep fire away

MEN

SIEMENS
SIEM
1
2
3
4
5

PUMP
CONDENSATE



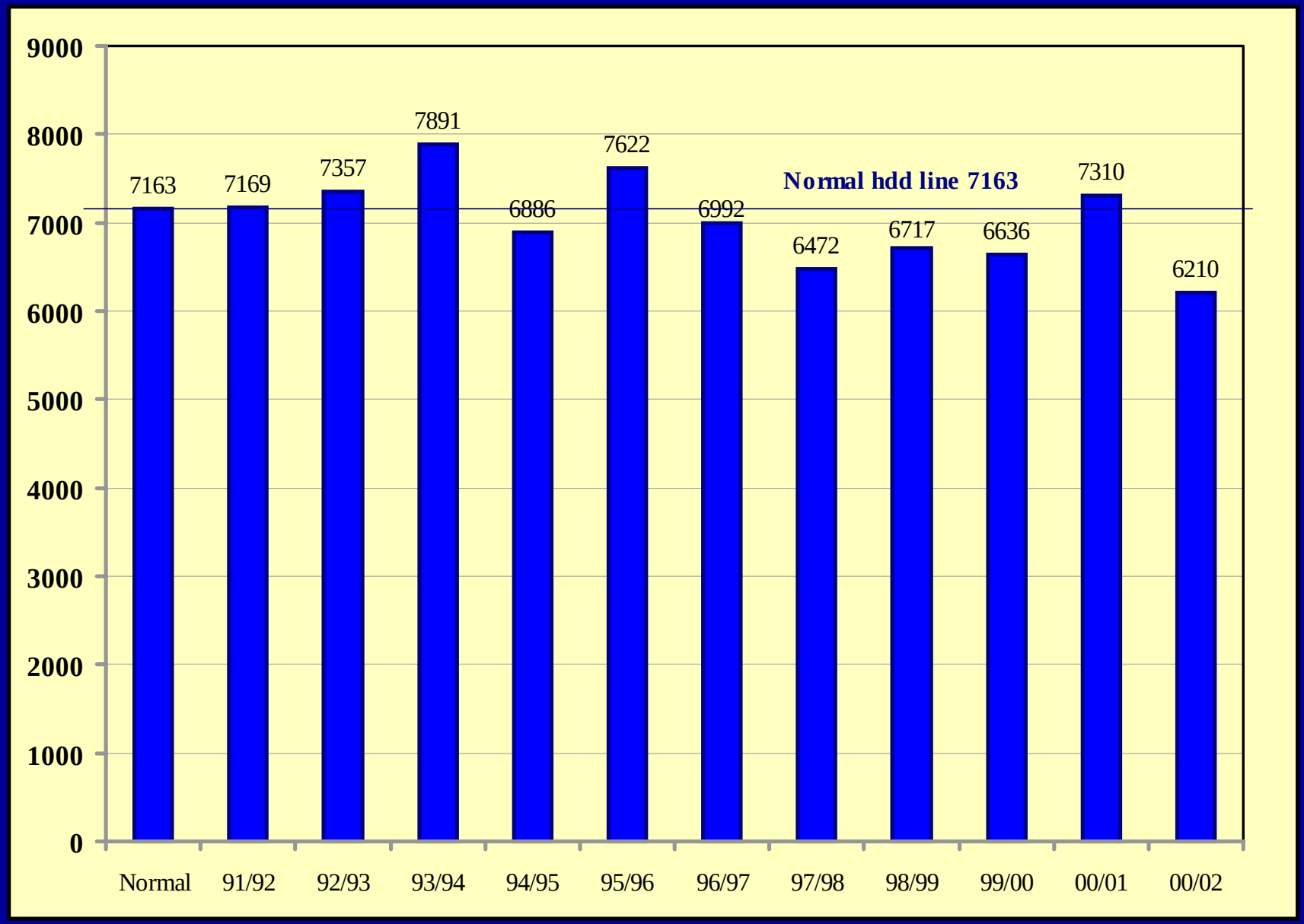
CHILLED WATER RETURN

CHILLED WATER SUPPLY

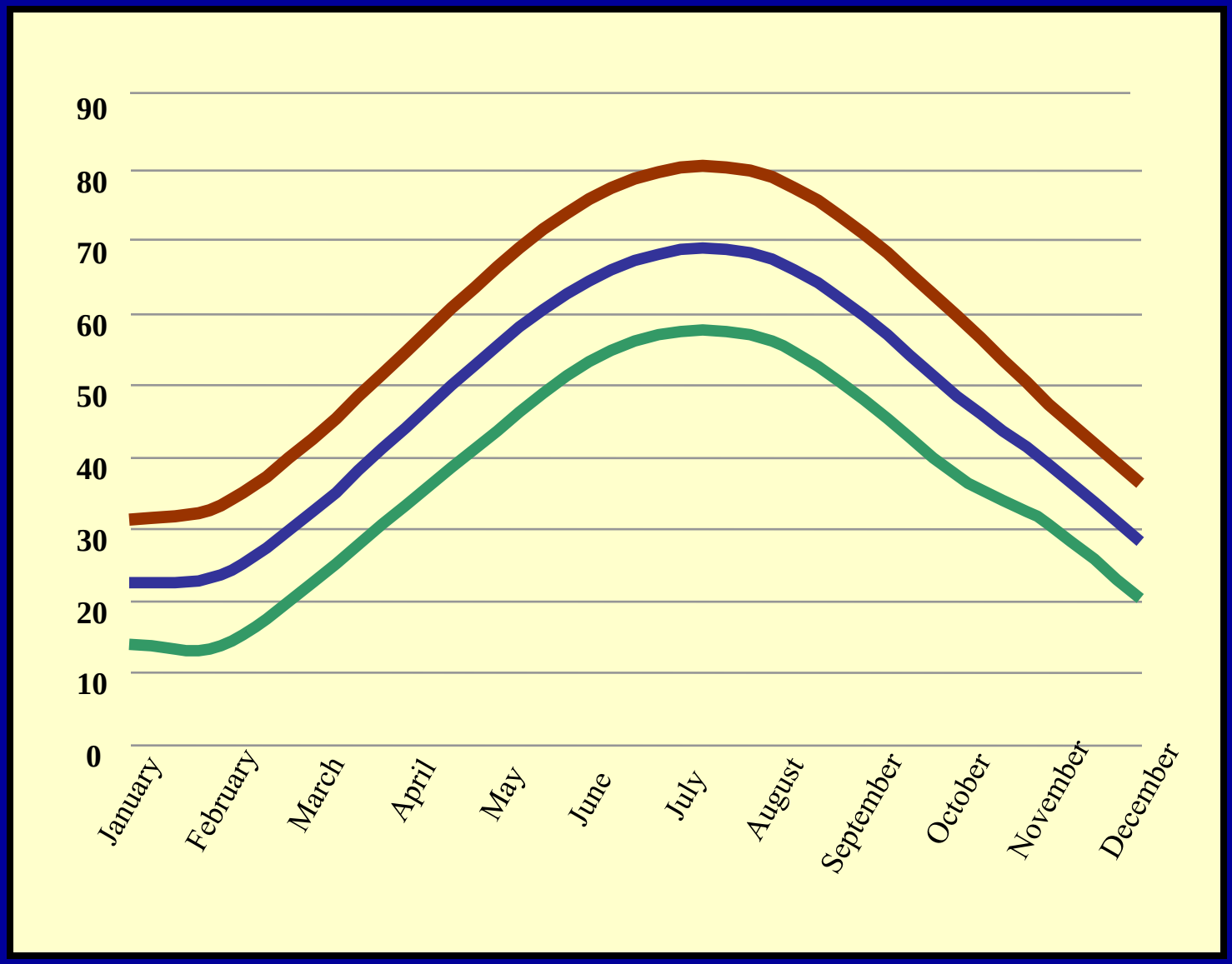
EMCO

FLOW PROCESSOR

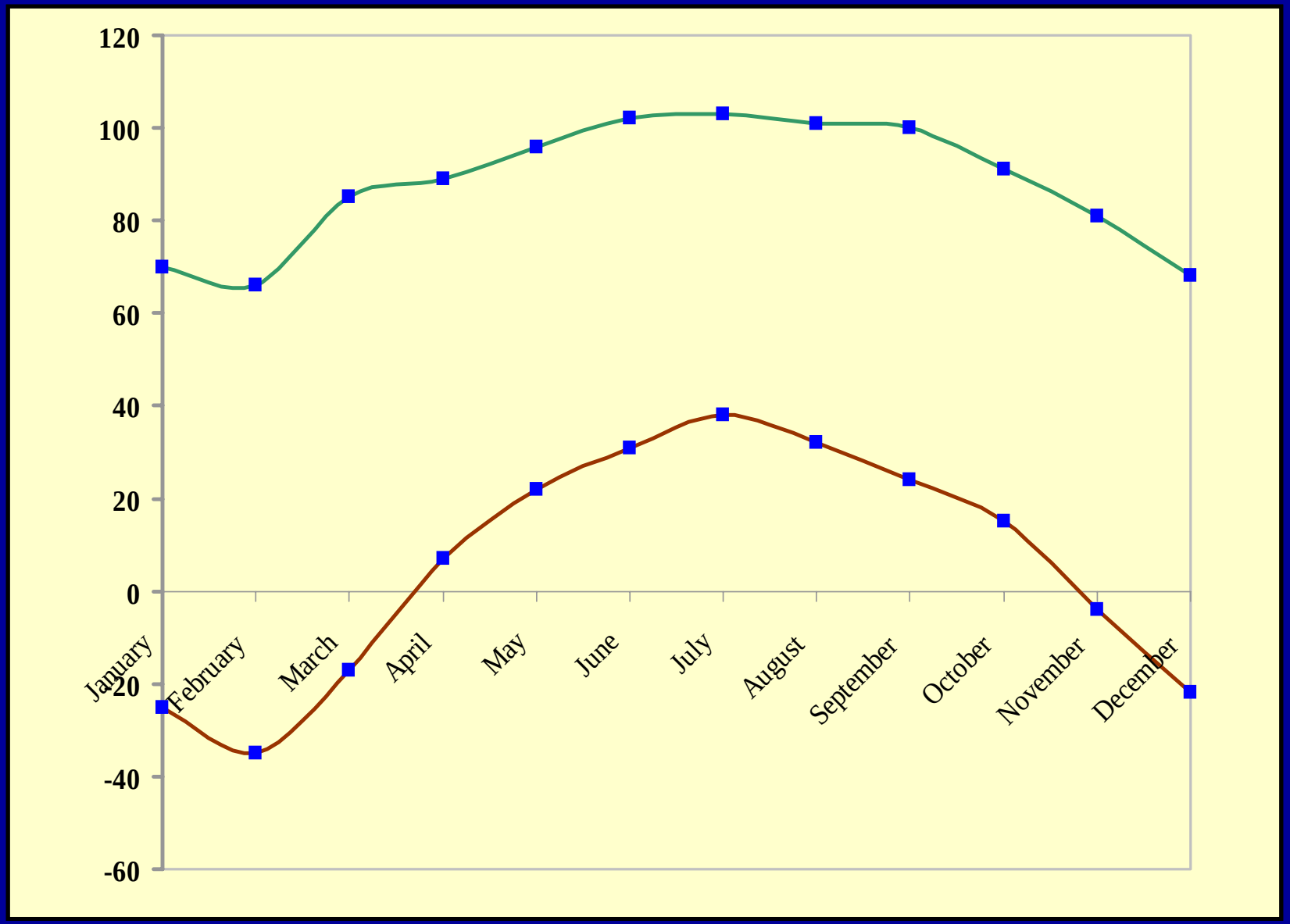
Heating Degree Days at Cornell University



Ithaca Temperatures



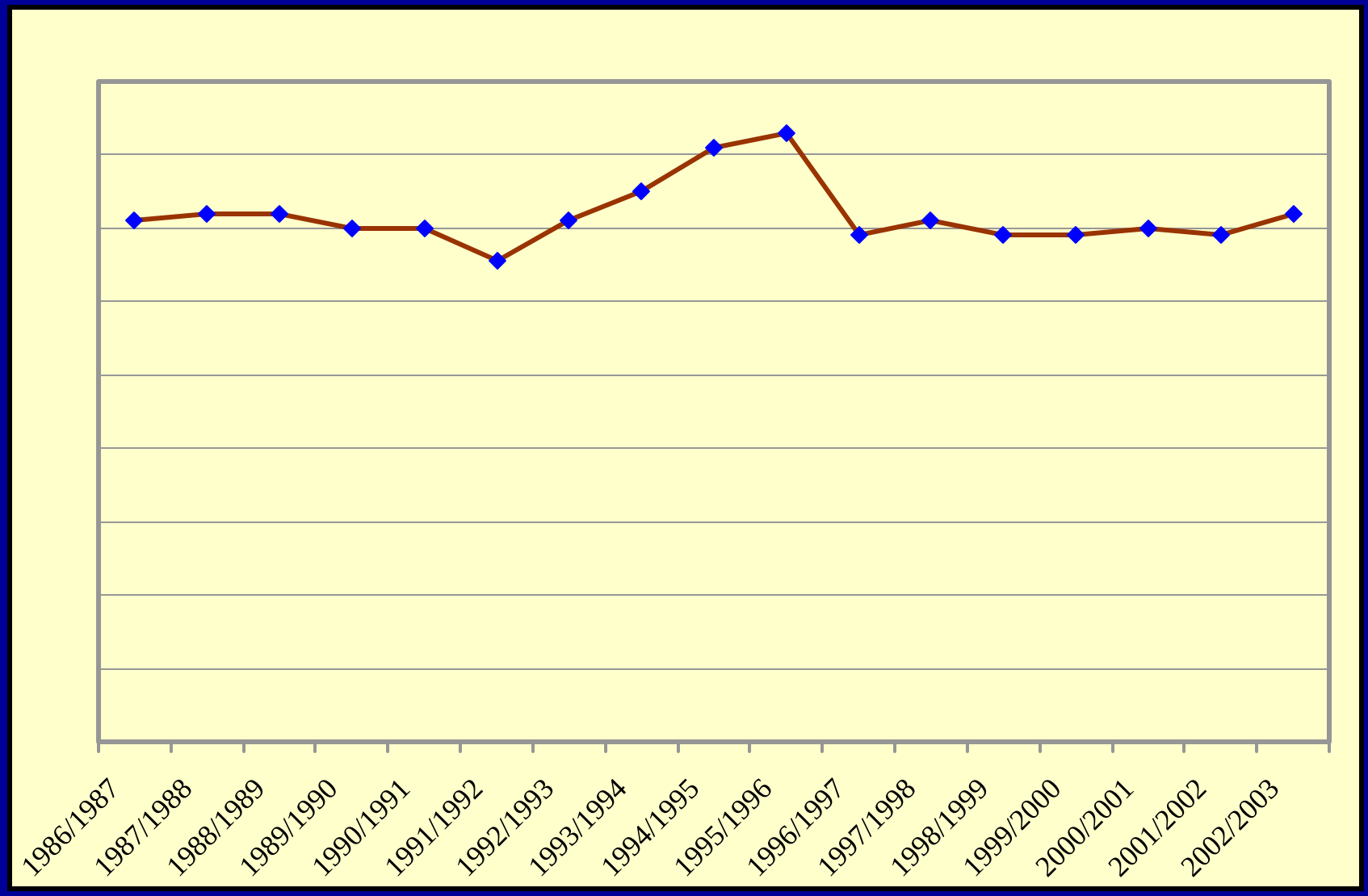
Ithaca Temperature Extremes



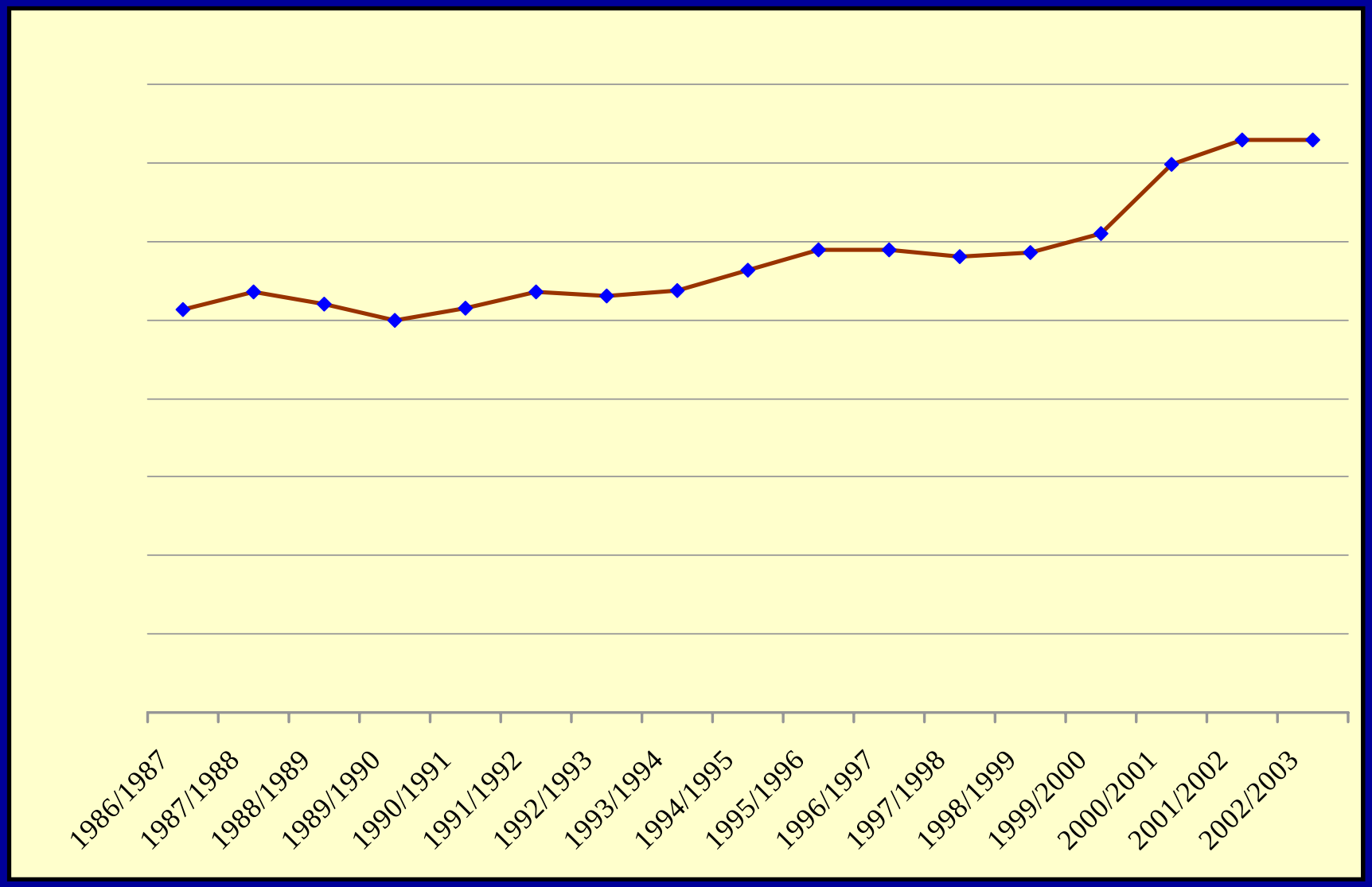
Metered Units

Utility	Metered/Sales Units	Definition	Equivalent
Steam	Gallons/Klb	Thousand pounds	1,000,000 Btu
Chilled Water	Ton hr	Ton hrs	12,000 Btu
Electric	Kwh	Kwhs	3413 Btu
Potable Water	Mcf	Thousand Cubic Feet	N/A

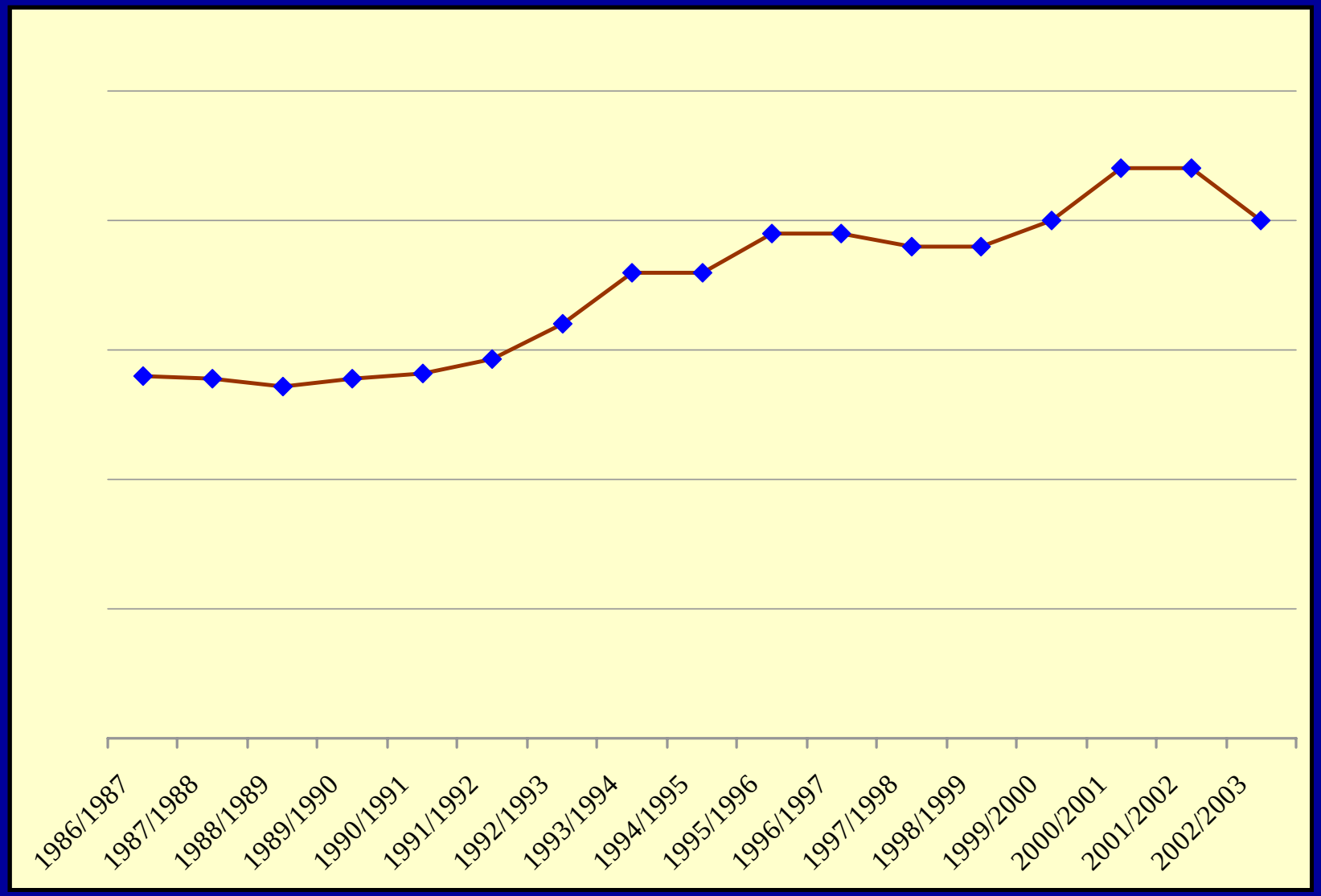
Cornell University Electric Cost



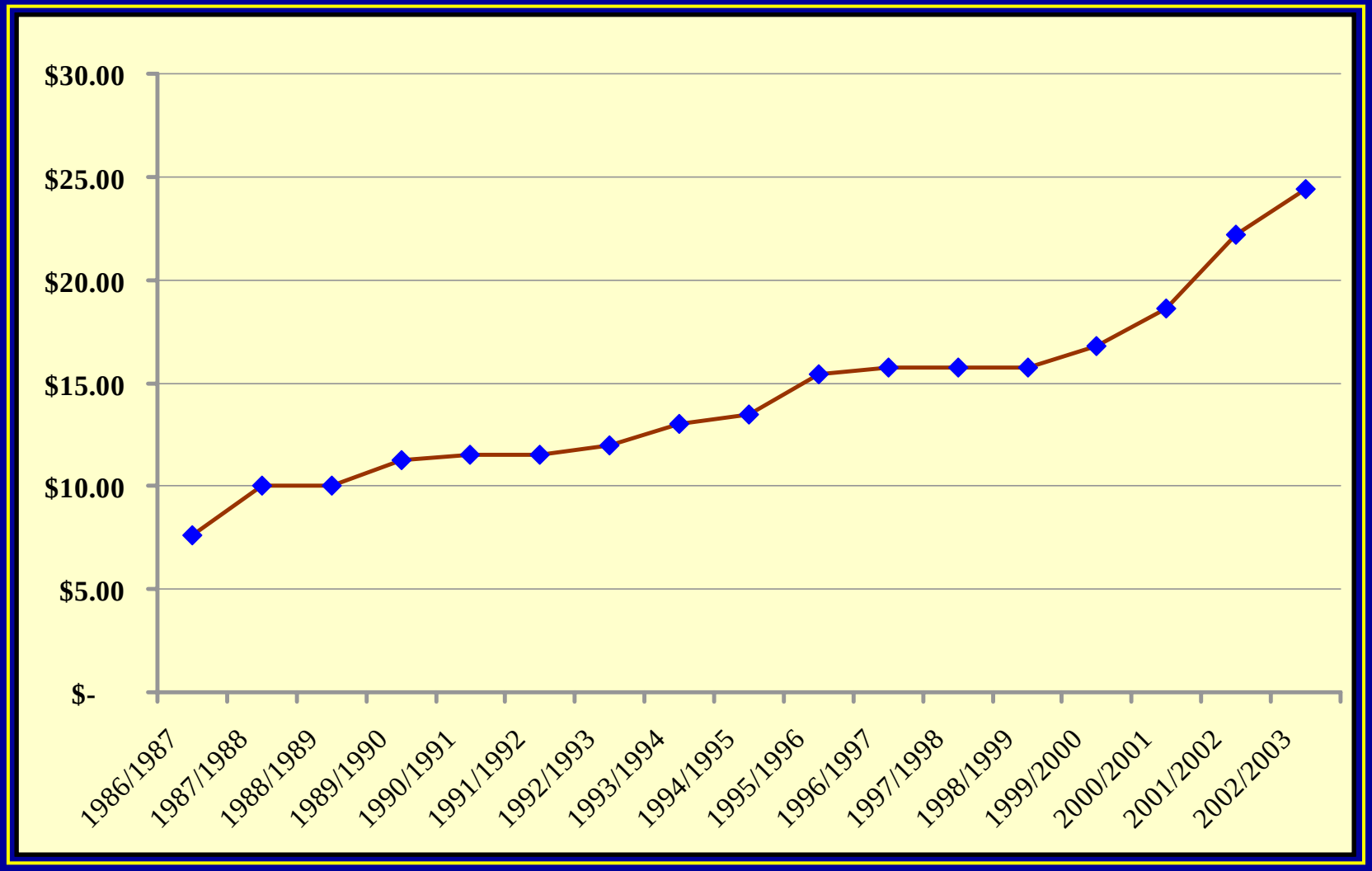
Cornell University Steam Cost



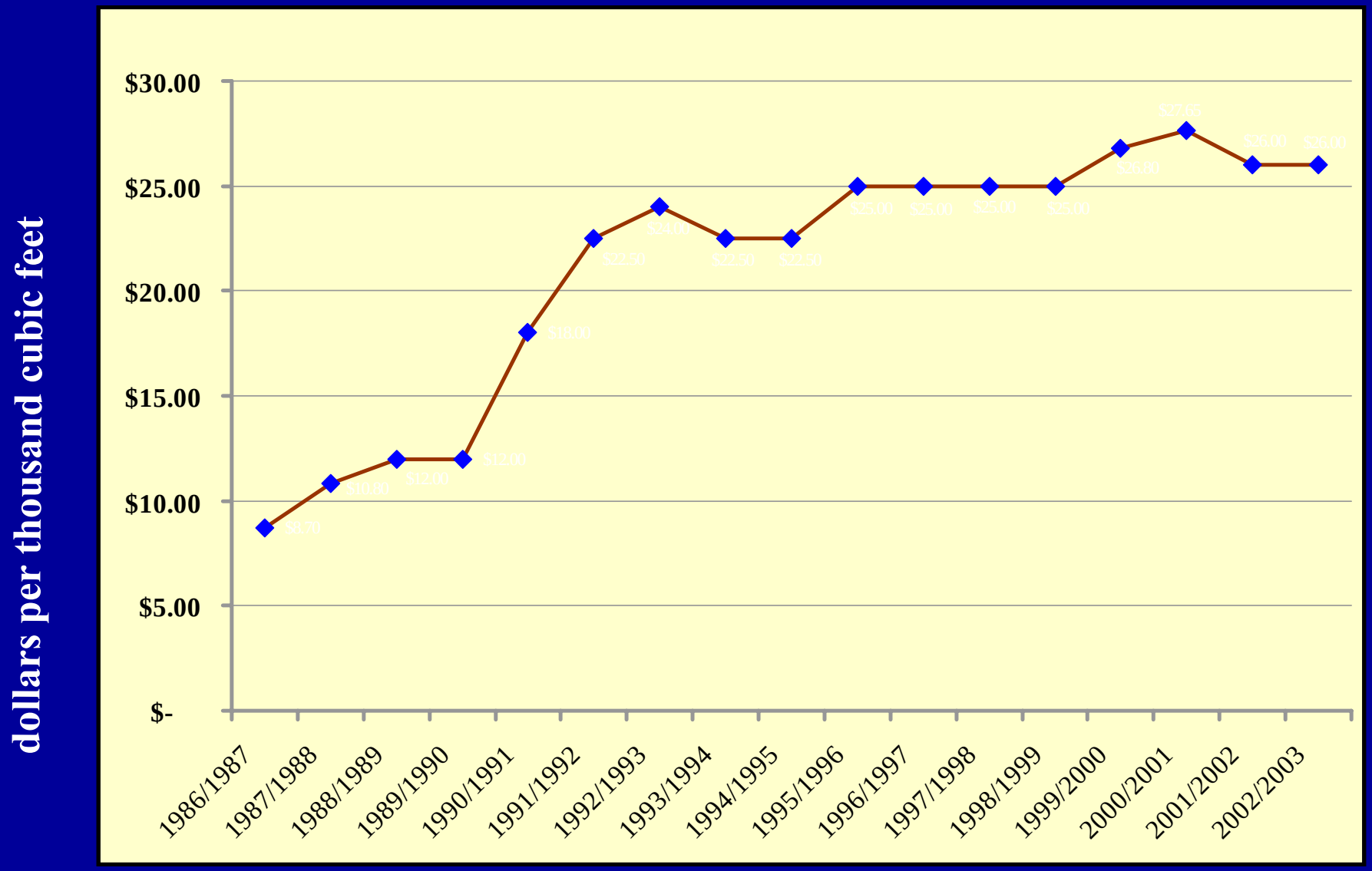
Cornell University Chilled Water Cost



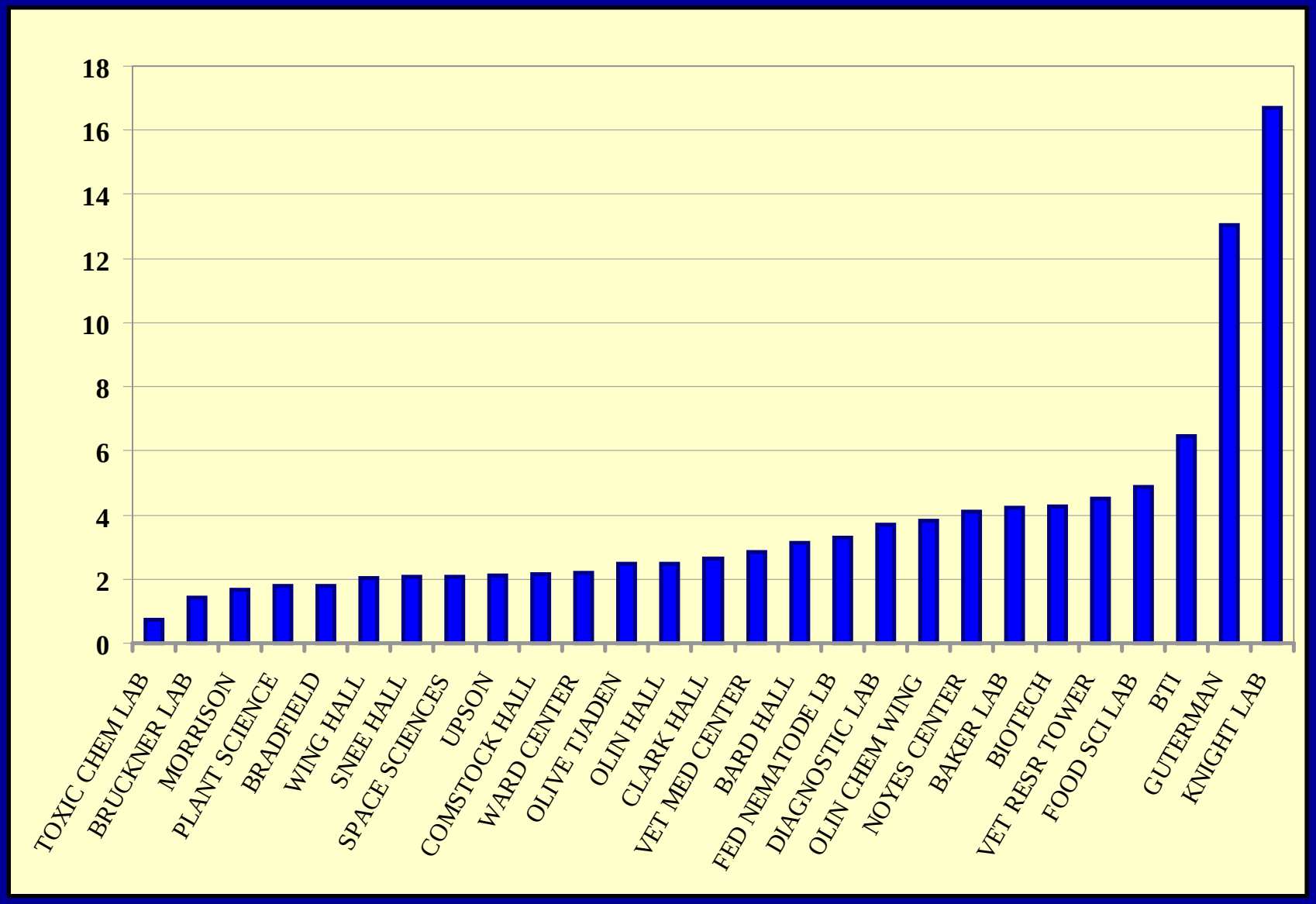
Cornell University Potable Water Cost



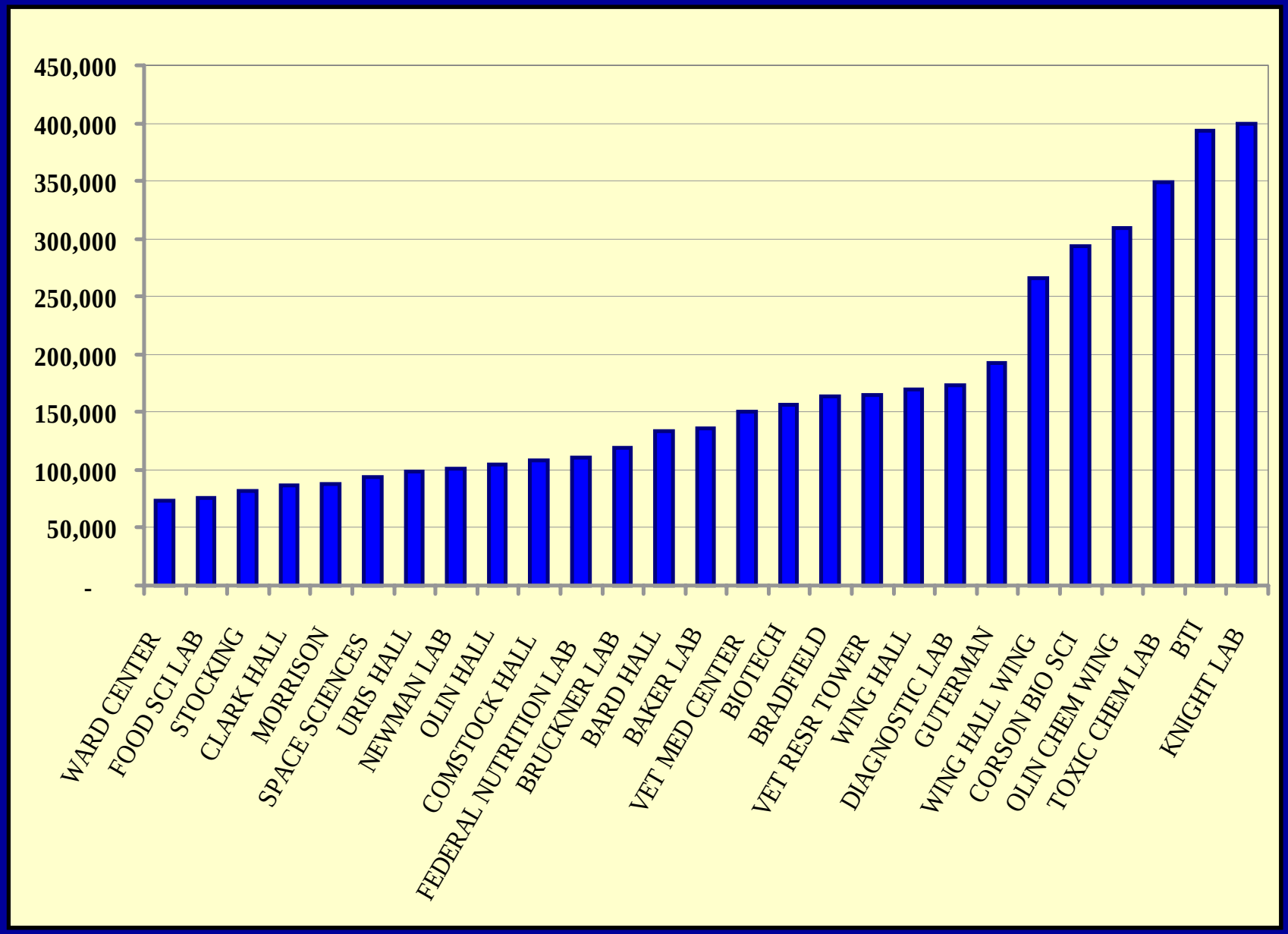
Cornell University Sewer



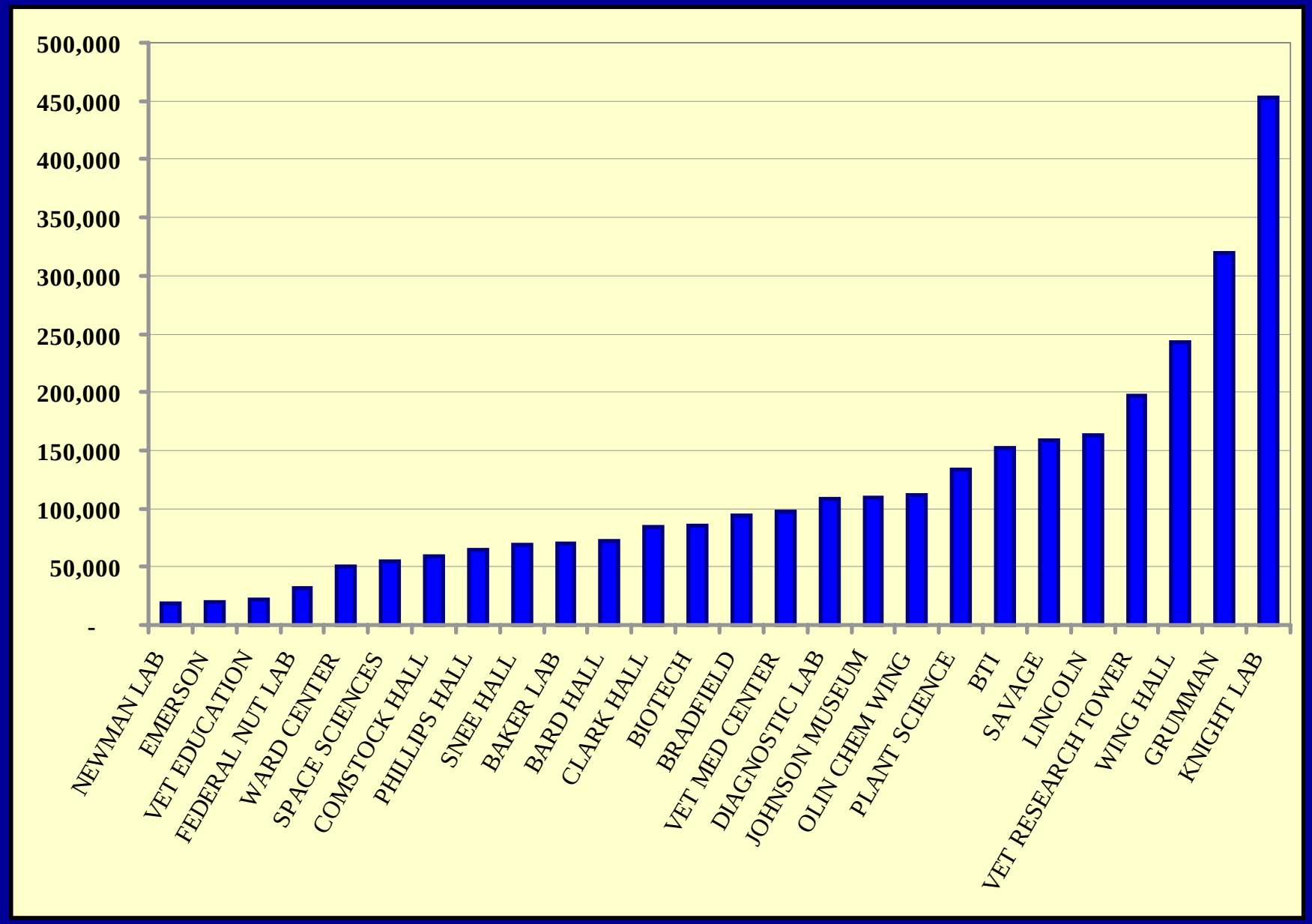
Cornell Building Labs Electric Benchmark



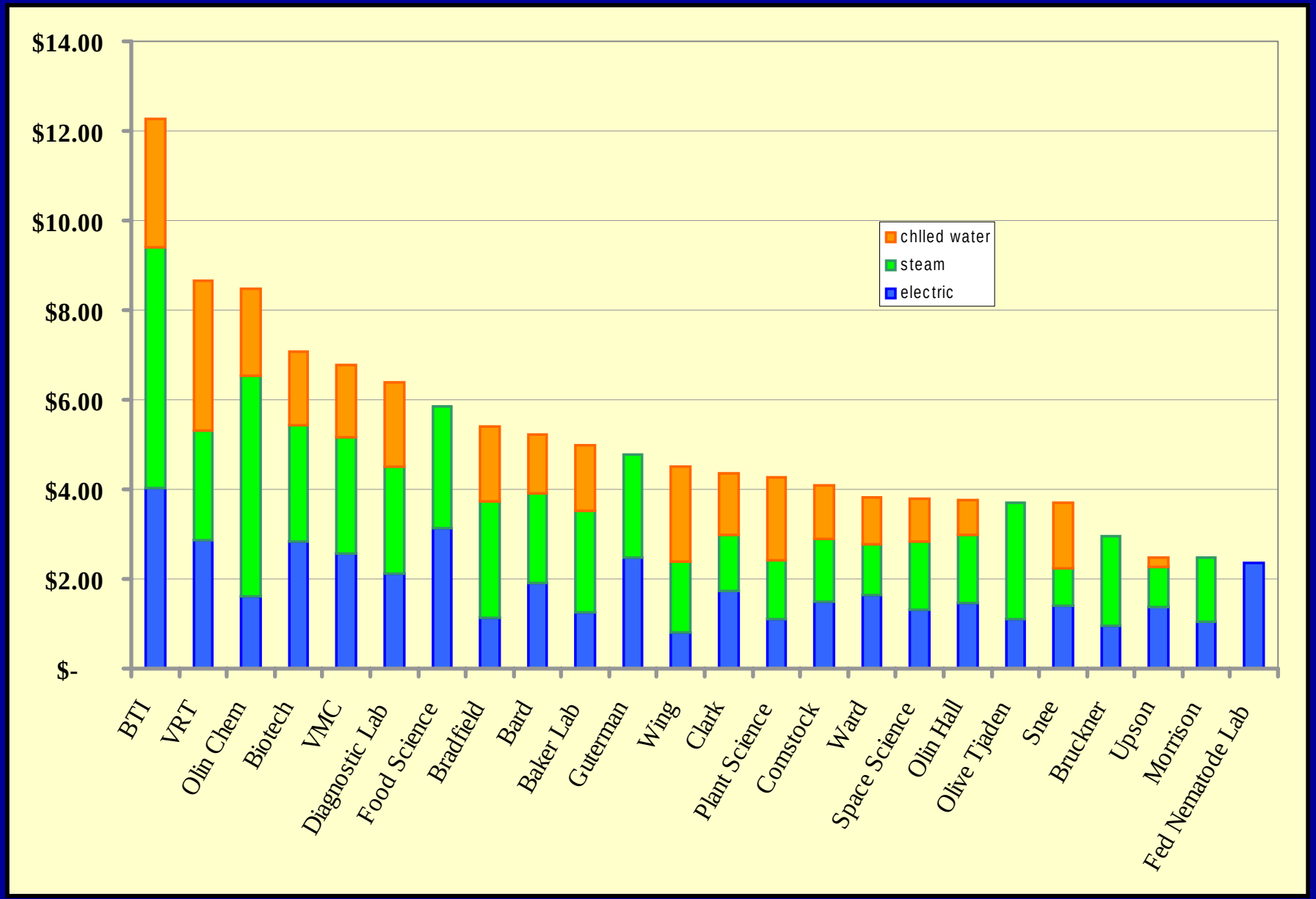
Cornell Lab Buildings Steam Benchmark



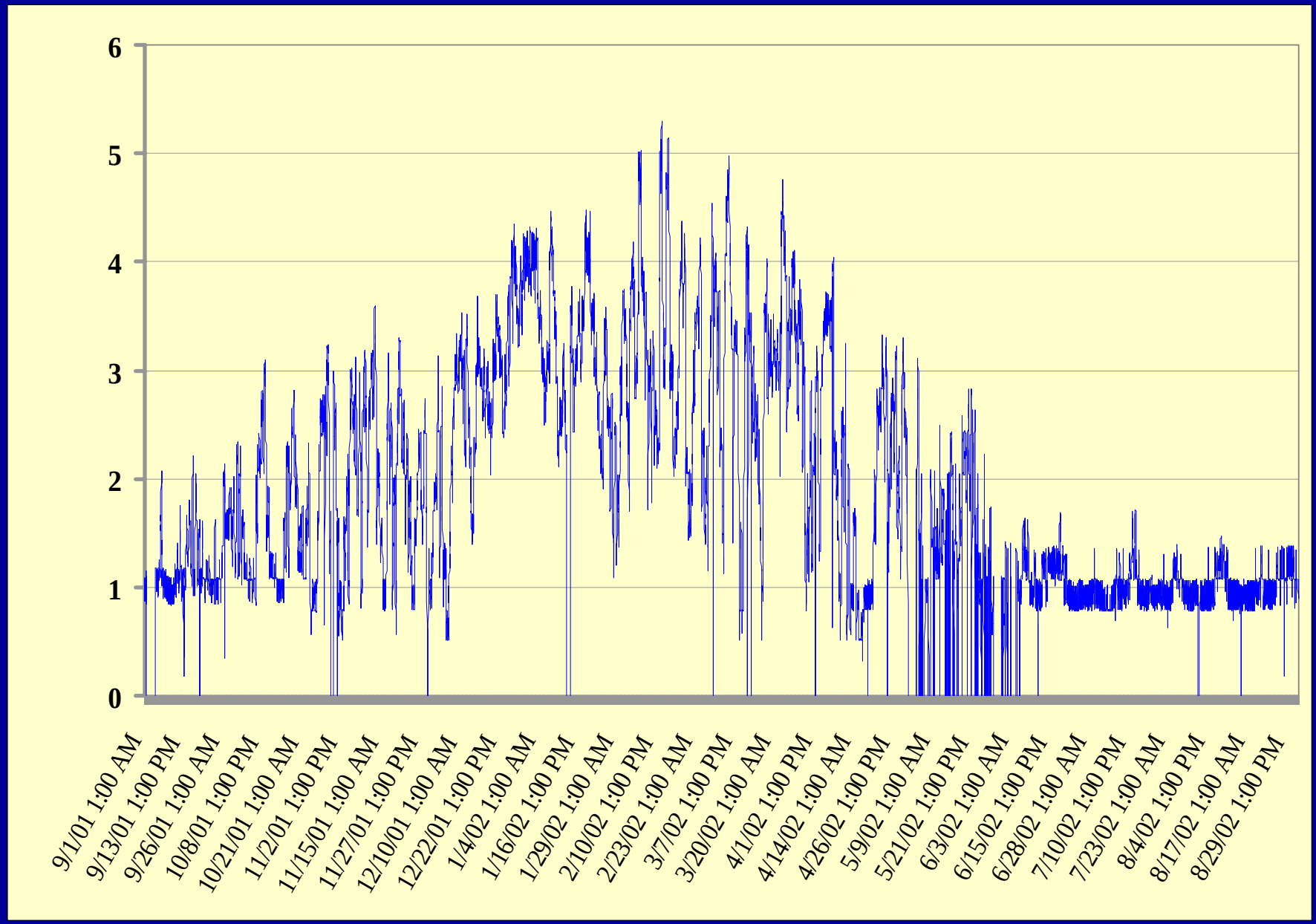
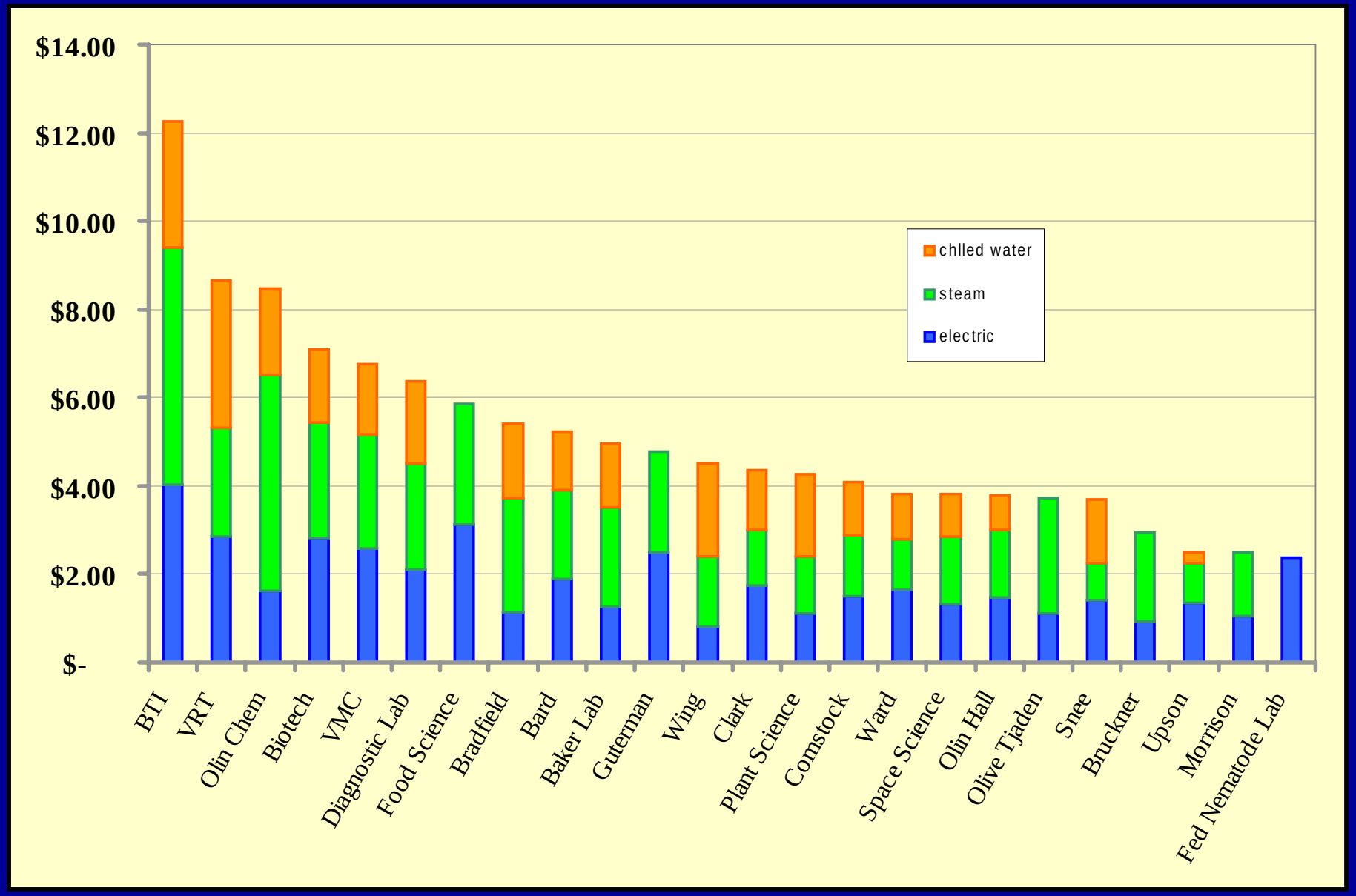
Cornell Lab Buildings Chilled Water Benchmark



Total Utility Comparison



Hourly Steam Data



Lab Buildings Cost per Sq. Ft.