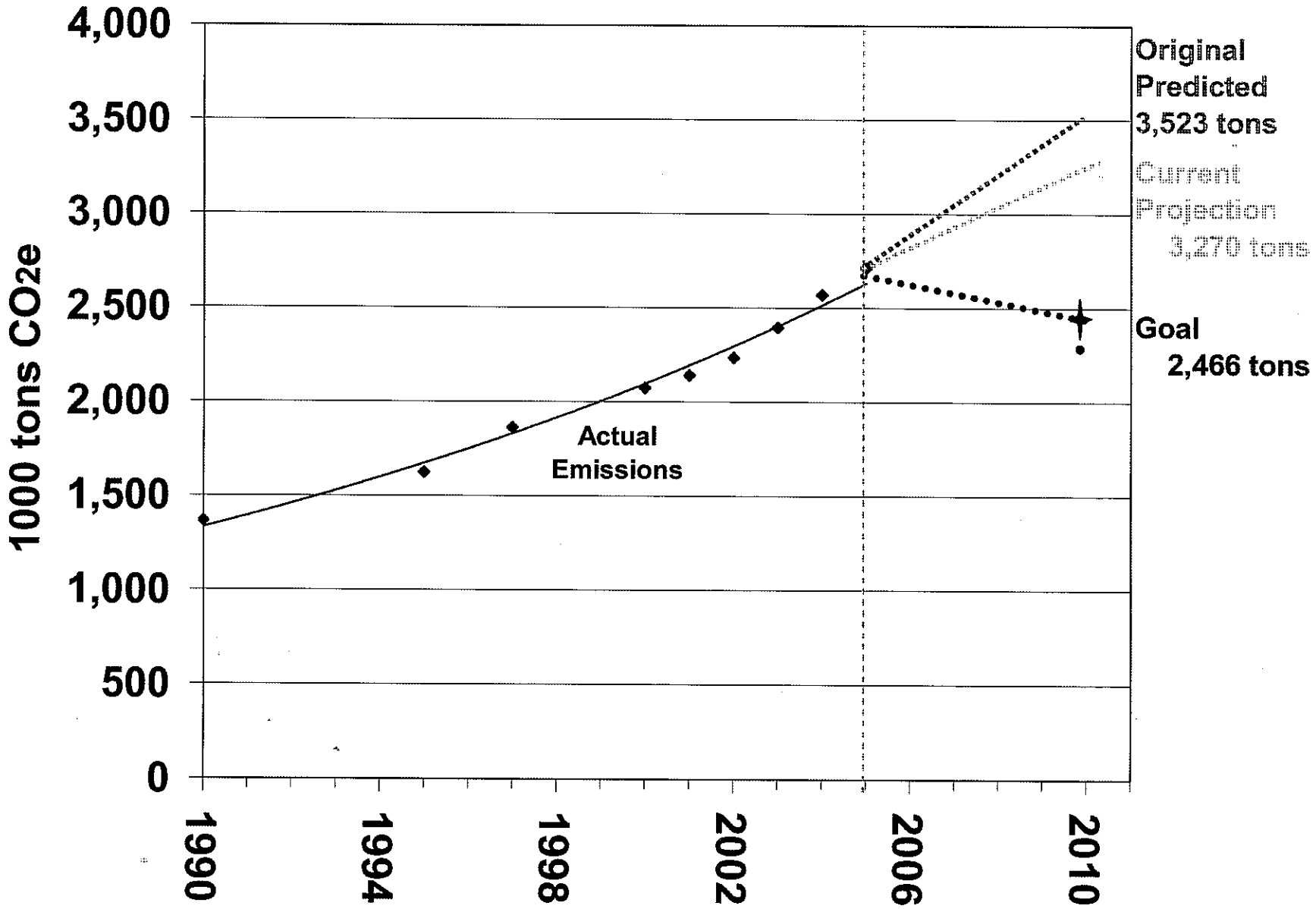
Fort Collins Greenhouse Gas Emissions (June 2006)
1000 tons CO2e
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
1990
1994
1998
2002
2006
2010
Actual Emissions
Original Predicted 3,523 tons
Current Projection 3,270 tons
Goal 2,466 tons

ORIGINAL 2010 EMISSIONS FORECAST

The emissions forecast is intended to estimate energy consumption **in the absence of any conservation measures implemented after 1990.** Fort Collins will be able to take credit for conservation measures implemented after 1990 when evaluating progress towards a greenhouse gas reduction target.

The table below identifies the range of forecast assumptions that were considered. The forecast assumption in **bold** indicates which assumption was selected to predict greenhouse gas emissions in the year 2010.

Consumption Category	Source of Estimate	Percent Change	Net change 1990-2010
RESIDENTIAL Electric	**A)Ft. Collins Utilities forecast electricity consumption**	**3.53% per yr**	**100.22%**
	B)Actual '90-'95 increase	18.97% in 5 yrs	100.3 %
	C) Growth in housing units '90-'95 1990=35,357; 1995=43,294	22.45% in 5 yrs	124.8 %
Natural Gas	**A) PSCo's forecast numbers**	**2.5% per yr**	**63.6%**
	B) Actual '90-'95 increase	14.75% in 5 yrs	72.4%
	C) Growth in housing units '90-'95 1990=35,357; 1995=43,294	22.45% in 5 yrs	78.52 %
COMMERCIAL	**A) Ft. Collins Utilities forecast numbers**	**3.86% per yr**	**113.31%**
Electric	B)Actual '90-'95 increase	14.7 %in 5 yrs	73.4 %
Natural Gas	**A) PSCo's forecast numbers - Combined Commercial + Industrial**	**1.35% per yr**	**30.77 %**
	B) Actual '90-'95 increase	-3.75%in5yrs	- 14.17 %
	C) PSCo forecast for Commercial	-1.5 % per yr	-25.7 %
INDUSTRIAL Electricity	**A) A) Ft. Collins Utilities forecast numbers**	**3.37 % per yr**	**94.19%**
	B) Actual '90-'95 increase	18.34 %in 5yrs	95.4%
INDUSTRIAL Natural Gas	**A) PSCo's forecast numbers - Combined Commercial + Industrial**	**1.35% per yr**	**30.77 %**
	B) Actual '90-'95 increase	12.67% in 5 yrs	61.17%
	C) PSCo forecast for Industrial	3% per year	81.8%

Consumption Category	Source of Estimate	Percent Change	net change 1990-2010
TRANSPORT - ATION	**A) Mobility Report Card '95-'98 results**	**7 % per yr**	**345.67%**
	B) Actual '90-'95 increase 1990daily VMT=1,914.4941 (source: 2015 RTP) 1995 daily VMT =2.398,614 (source: 2020 RTP)	25.287%in 5yrs 4.61%/yr)	146.4%
	C) MPO 2020 RTP planning assumption	2.9%/yr VMT	77.14%
SOLID WASTE (per capita tons waste in 1990=1.0663)	**A) Population growth rate used for City Plan**	**2.2% per yr**	**63.46%**
	B)Annual '90-'95 population increase	2.633%/yr	68.17%
	C) Avg. Annual '80-'90 population increase	3.0%/yr	80.61%

Given the 1990 greenhouse gas emissions estimate of 1,360,000 tons CO2,
and the 2010 forecast of 3,523,000 tons CO2,
this represents a 259% increase of CO2 emissions between 1990 and 2010.

REVISED 2010 FORECAST (from 2005)

Consumption Category	Source of Estimate	Percent Change	Net change 1990-2010
Electric	Projected Future Growth (based on March 2006 estimates) Without Demand Side Management Programs: 2006 3.05% 2007 3.05% 2008 2.96% 2009 2.87% 2010 2.79%		
Natural Gas	1% Growth per Year (per Xcel, 12/06)		
TRANSPORT - ATION	4.9%/year VMT growth from 1998 onward Uses June 2004 VMT distribution mix		
SOLID WASTE	• 2005 MSW tonnage = 278,571 • 2005 population = 137,391 • Per capita MSW in 2005 = 2.0276 • Grow population from 2005 levels (from City Advance Planning Department) by 3.03%/year, the annual average population growth in Fort Collins from 1900 through 2005 • 2010 population = 157,651 • Apply per capita MSW in 2010 = 319,650 tons. • Use NEW Landfill waste characterization = 134,249 tons CO2e		

2010 REVISED GHG = 3,270,104
30% below = 2,289,073

Original 2010 = 3,523,000
30% below = 2,466,100