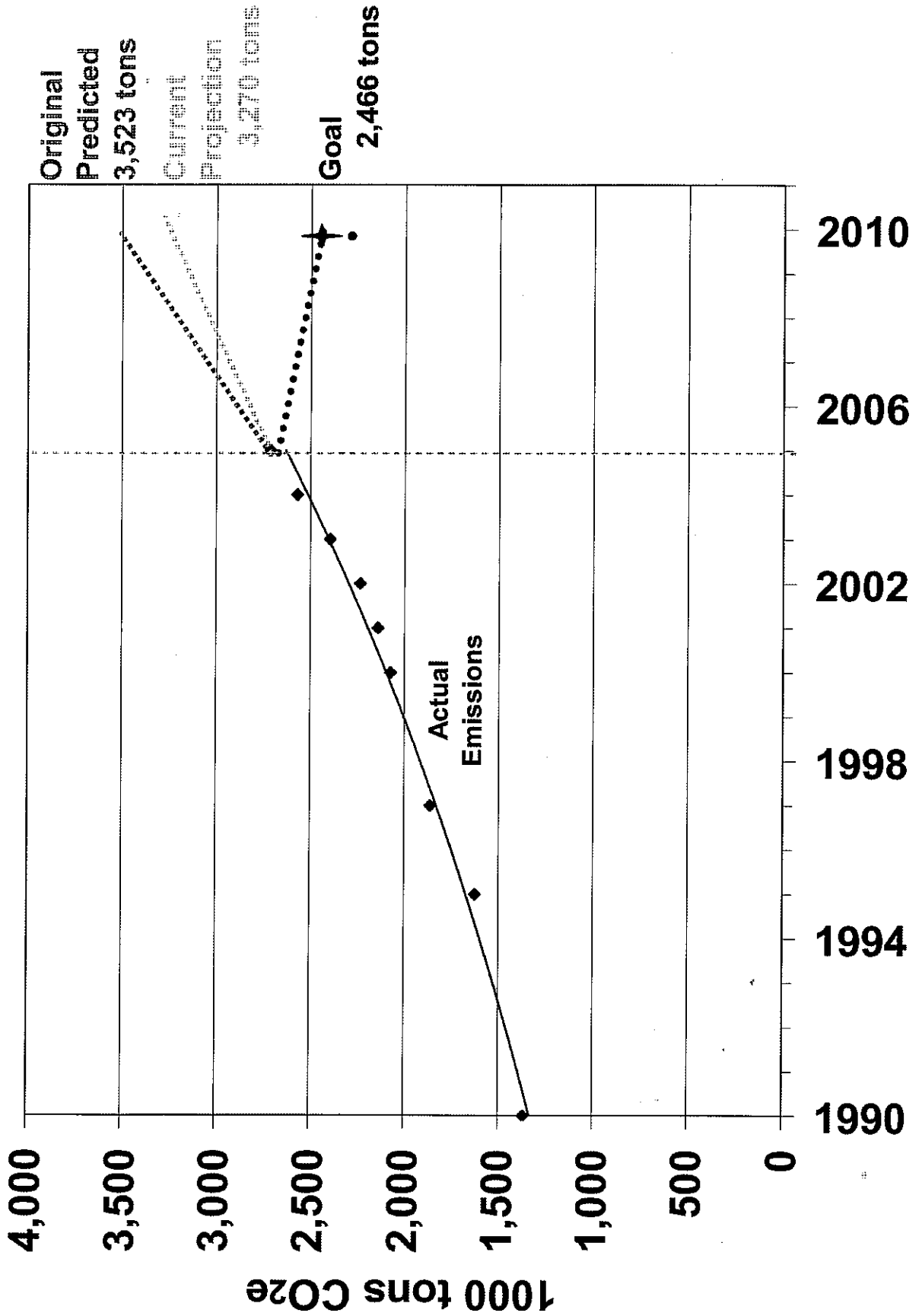


Fort Collins Greenhouse Gas Emissions (June 2006)



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 Electric	A) Ft. Collins Utilities forecast numbers	3.86% per yr	113.31%
	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 1990 daily VMT=1,914,494 (source: 2015 RTP) 1995 daily VMT =2.398,614 (source: 2020 RTP)	25.287% in 5 yrs 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	<ul style="list-style-type: none"> • 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 CO_{2e} 		

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

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