Oil and Gas Price Forecast per Property Tax Code Section 23.175
TAX YEAR 2014

The Texas legislature's passage of SB 1505 in 2011 (82nd regular session), effective beginning tax year 2012, amended Section 23.175 of the Property Tax Code so that the profile of the forecasted oil and gas price scenario used in ad valorem tax discounted cashflow appraisals is to be derived with reference to two different sources:

1. The forecasted price for Year 1, if any, is equal to last year's average monthly price multiplied by a "Price Adjustment Factor" (PAF). This PAF is equal to the percentage increase or decrease projected for oil and gas prices for the next calendar year, compared to last year's average prices, by the United States Energy Information Administration (EIA) in their most recent *Annual Energy Outlook* ("Early Release" version). There is one PAF calculated for oil based on the EIA's projection for imported low-sulfur light crude [subsequent to the passage of SB 1505, the EIA has renamed this series as West Texas Intermediate Spot Price], and one PAF for gas based on the EIA's projection for spot price at Henry Hub.

2. The forecasted prices for Years 2 through 6, if any, are derived by successively multiplying the calculated Year 1 price by an escalation factor which is equal to the average annual change in the Producer Price Index (PPI) for commodity data from 1982 to the most recent calendar year, as published by the United States Bureau of Labor Statistics (BLS). There is one factor calculated for oil and one factor calculated for gas. The Texas Comptroller is required to publish a manual that specifies the formula for this factor's calculation. This factor is an upper limit; the appraisal district can choose to use a smaller factor if or when appropriate.

The forecasted prices for any years in the cashflow past Year 6 are equal to the price used in Year 6.

	Oil	Gas	
a. Most Recent Previous Year's Price (EIA) [1]:	$98.59	$3.66	
b. Projected Next Year's Price (EIA):	$96.21	$3.86	
c. Calculated PAF for Year 1 Price:	**0.97586**	**1.05464**	(b / a)
=	2.414% decline	5.464% escalation	

	Oil	Gas	
d. PPI Index in 1982 (BLS) [2]:	100.0	100.0	
e. PPI Index for Most Recent Previous Year (BLS):	281.4	152.7	
f. Years Elapsed from 1982:	31	31	
g. Calculated Factor for Years 2-6 Prices:	**1.03394**	**1.01375**	$(e / d)^{(1/f)}$
=	3.394% escalation	1.375% escalation	

[1] EIA price data is for West Texas Intermediate (formerly called Imported Low-Sulfur Light Crude Oil by EIA) and Henry Hub Spot Price as published in EIA's "Reference Case" Table 12 (Petroleum Product Prices) and Table 13 (Natural Gas Supply, Disposition, and Prices), in nominal dollars per barrel and million btu, respectively. The prices shown in rows a and b above have been rounded to two decimal places before calculation of the PAF in row c.

[2] BLS PPI data is for Domestic Crude Petroleum (commodity code 0561) and Natural Gas (commodity code 0531), non-seasonally adjusted, under the Fuels and Related Products and Power group (group 5).