

Appendix C: Stable Isotopic Data for Soil Gas, Soil CO₂ concentrations, and Soil Temperature for Soil-Gas Wells at Riesel, TX

Date	CO ₂ (ppmV)	δ ¹³ C CO ₂ (‰)	δ ¹³ C _r (‰)	T (°C)
1/22/2010	30399			
2/10/2010	29428	-10.9	-15.3	9.9
4/29/2010	48566			19.4
5/17/2010	45615	-12.0	-16.4	22.2
6/7/2010	32630			
7/28/2010	13281	-11.1	-15.5	27.3
8/14/2010	11517	-10.9	-15.3	<u>27.8</u>
8/26/2010	966	-10.2	<i>-15.6</i>	28.2
9/3/2010		-11.3		27.5
9/9/2010		-11.6		26.5
10/2/2010	9624	-12.3	-16.8	24.7
10/18/2010	4696	-12.5	-17.2	22.7
10/28/2010	9495	-12.3	-16.8	22.9
11/12/2010	7855	-12.8	-17.3	19.3
12/9/2010	2863	-12.1	-17.0	14.9
1/12/2011	3755	-13.1	-17.9	11.5
2/12/2011	3432	-13.5	-18.4	9
3/9/2011	3462	-13.1	-18.0	14.5
4/20/2011	7514	-12.6	-17.1	19.7
5/4/2011	4934	-12.6	-17.3	20.1
5/21/2011	11983	-12.9	-17.4	22.2
6/3/2011	8314	-12.4	-16.9	23.69
6/15/2011	1588	-13.0	<i>-18.7</i>	<u>25.1</u>
7/1/2011	7576	-12.8	-17.4	26.9
7/14/2011	958	-14.5	-22.7	28.2
8/2/2011	897	-11.3	<i>-17.7</i>	28
8/27/2011	461	-8.9	<i>-15.1</i>	28.2
9/13/2011	454	-9.4	<i>-18.3</i>	24.3
9/21/2011	706	-11.7	<i>-19.7</i>	26.1
10/24/2011	1042	-12.0	<i>-18.3</i>	22.3

italicized temperatures were estimated based on measured temperatures at the same time of year during other years

underlined temperatures were interpolated

italicized δ¹³C_r values correspond to samples with low CO₂ concentration and therefore may not reflect the carbon isotope composition of biologically respired CO₂