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Report No. 5.

MAUNA LOA CARBON DIOXIDE PROJECT*

REPORT NO. 5

Prepared by

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SCRIPPS INSTITUTION OF OCEANOGRAPHY

A Summary of Reference Gas Analyses with Infrared Analyzer APC
No. 58 at Mauna Loa Observatory from January 1971 through December
1972 together with Analyses of Atmospheric Carbon Dioxide from
January 1971 through December 1972

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Document

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I. Introduction

This report documents the observation of atmospheric carbon dioxide at Mauna Loa Observatory, Hawaii for the period beginning with January 1, 1971 and ending on December 31, 1972. Earlier results are covered in four previous reports.⁽¹⁾ Experimental methods have remained unchanged since described by Pales and Keeling.⁽²⁾ The data and results of computations are assembled in tables which follow this text. These tables are numbered in the same manner as in Mauna Loa Report No. 4 and a detailed description of the entries and calculations involved may be found in that report.

In summary, Tables 1 through 7 contain detailed information relating to the calibration of the non-dispersive analyzer; Tables 8 through 10, the observed CO₂ concentrations; and Tables 11 through 13 relate to comparisons of the flask sampling program with the continuous analyzer.

II. Chronology of Calibration Periods

For the purposes of calibration, the period covered by the report is divided into 10 distinct intervals. For each of these intervals a linear variation of instrumental sensitivity with time was determined as described in Report No. 4. The chronology of these intervals is next discussed. The intervals are numbered in a continuation of the scheme initiated with Report No. 4.

The first interval of this report (interval number 19) begins on January 1, 1971 and ends on May 31, 1971, the day before the Mauna Loa Observatory technician changed the detector polarizing voltage. Period 20 begins on June 1, 1971, the day on which the polarizing voltage was changed, and ends on June 23, 1971, the day before the MLO technician replaced the thermal control cutout switch. Period 21 begins on the day the switch was replaced (June 24, 1971) and ends on July 11, 1971, on which date the analyzer failed entirely. This period was characterized by a rapidly varying recorder scale factor. The next period (number 22) begins on July 12, 1971 when the entire thermal control unit was replaced, and ends with the failure of the analyzer, on July 26, 1971. The analyzer was out of commission from July 27 through August 1, and period 23 begins on August 2, 1971, when the Brown recorder amplifier vibrator was replaced and ends on October 6, 1971 when SIO personnel (C. A. Ekdahl and D. J. Moss) arrived to repair the analyzer. The analyzer was out of commission from October 7 through October 11 during which time it was moved back into the main building to alleviate extreme temperature problems. The original tank handling system (use of two regulators only) has been in use since this visit. Period 24 begins on October 12, 1971 and ends on June 5, 1972. The ending date of this period is the last calibration date prior to a definite change in instrumental sensitivity. The next period (25) begins on June 6, 1972 and ends on July 23, 1972, on which date SIO personnel (D. J. Moss) begin overhaul of analyzer. The analyzer was out of commission July 24 through July 25 while it was

being worked on and on July 26, 1972 period number 26 begins and runs through September 19, 1972, which was the date of the last work performed on the analyzer prior to the Mauna Loa technician's noticing that "someone" had changed the span setting. Period 27 begins the day after this work (September 20, 1972) and ends on September 24, 1972, which is the day prior to the MLO technician returning the span setting to its original value. The last period (number 28) begins on the date the span was reset (September 25, 1972) and ends on the last date covered in this report, December 31, 1972.

III. Calibration runs rejected during 1971 - 1972

The following calibrations were rejected as a result of improper procedures being followed. These runs are tabulated in Table 1, but RSF calculations (Table 2) do not include them.

The triangle computed RSF on February 9, 1972 was rejected as a result of a suspected problem with the surveillance tank line evident on the chart traces. All calibration runs made on February 23, 1972 were rejected because they were performed immediately after working on the analyzer, without allowing sufficient time for the analyzer to come to operating temperature and stabilize. During November and December of 1972 there was an apparent contamination problem, as revealed by the chart traces in calibration dates. As a result several calibration runs were rejected during this period. The calculated triangle was omitted for November 1, December 8, and December 14, and all calibrations were rejected for November 7 and November 9, 1972.

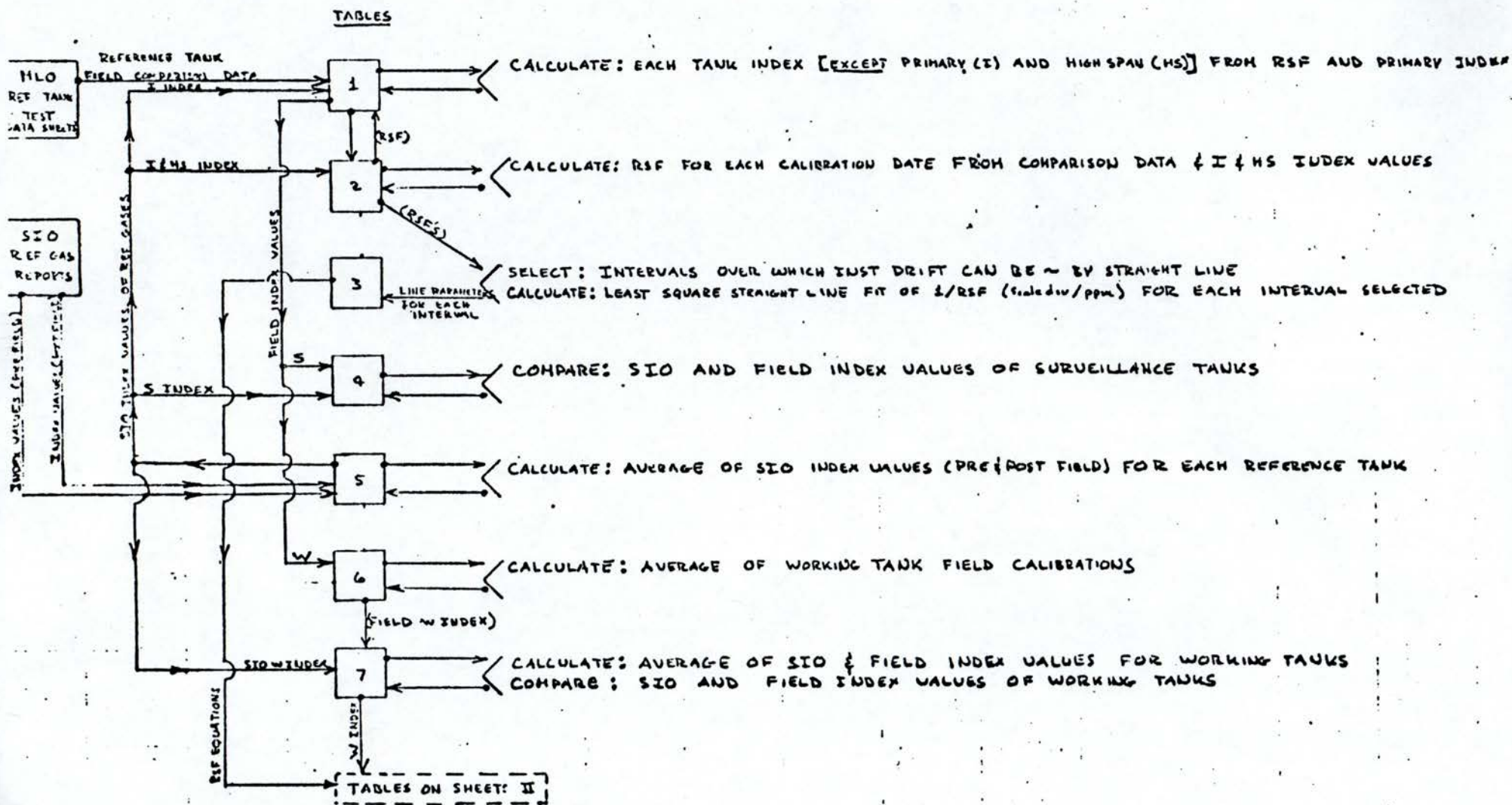


Figure 1. Information Flow Diagram for Tables 1 to 7.

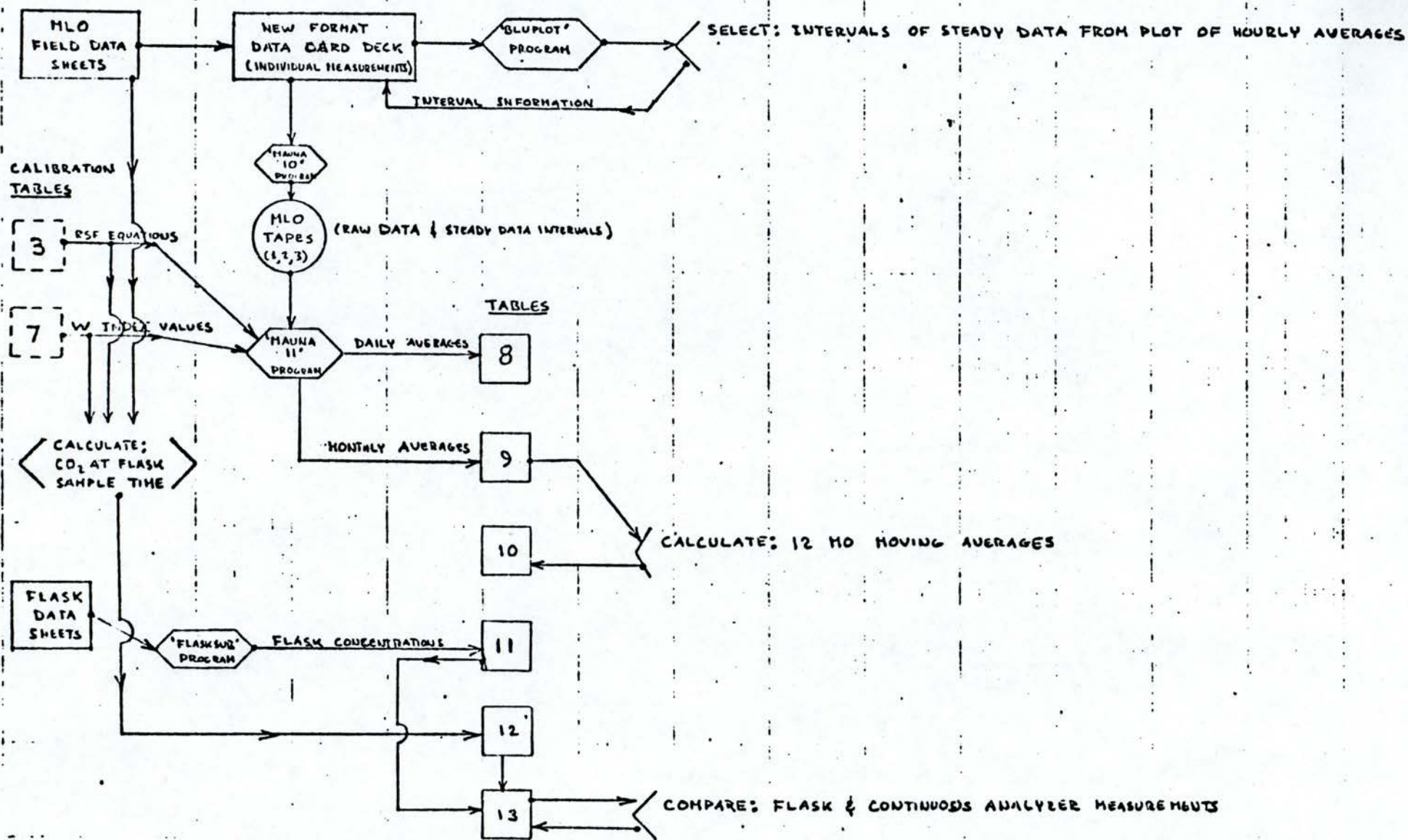


Figure 2. Information Flow Diagram for Tables 8 to 13.

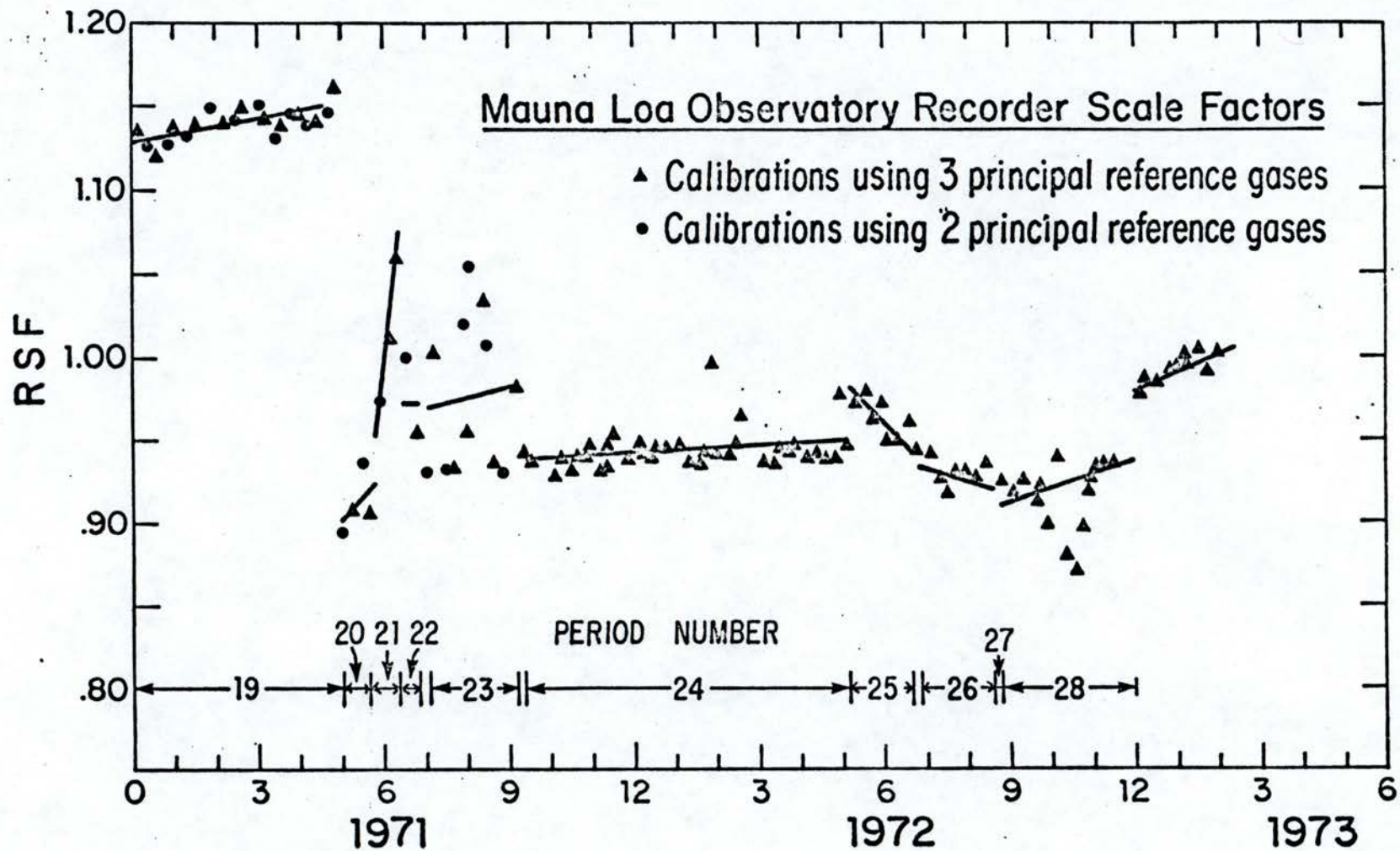


Figure 3. Recorder Scale Factor at Mauna Loa Observatory.

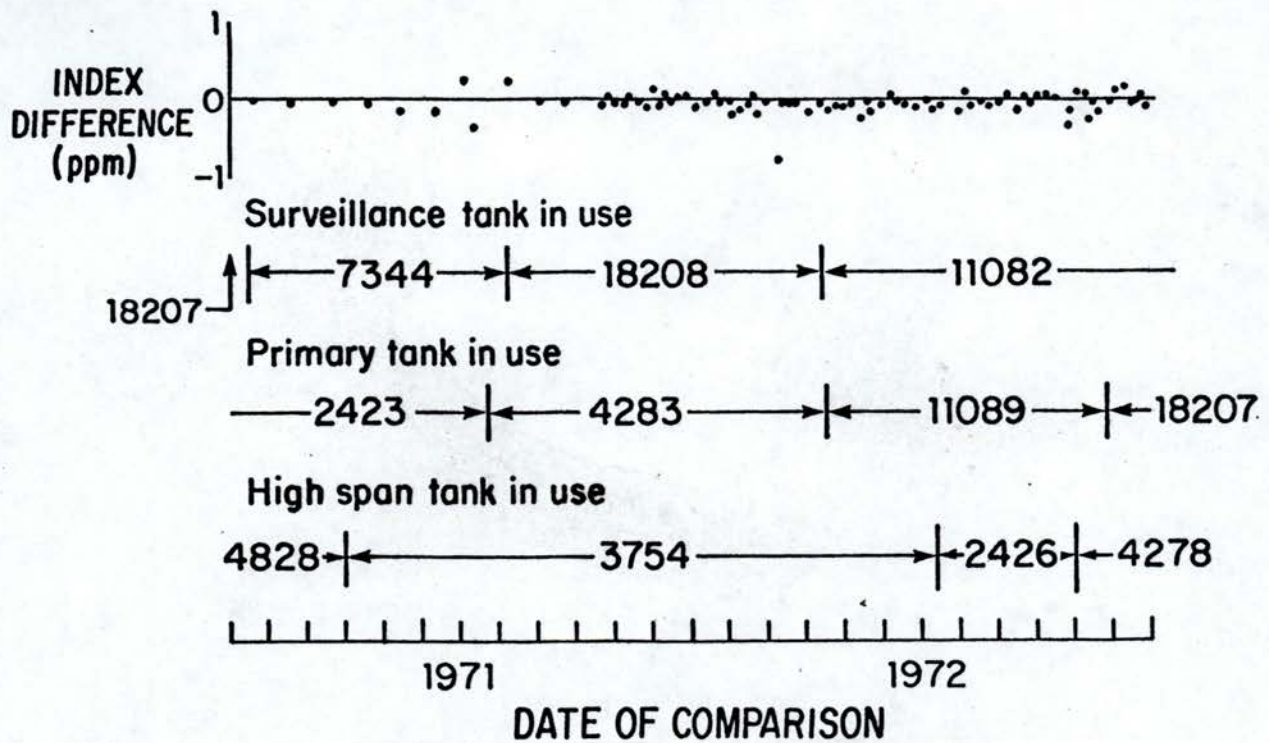


Figure 4. Index Difference (Mauna Loa minus Scripps) for Surveillance Tank Determinations.

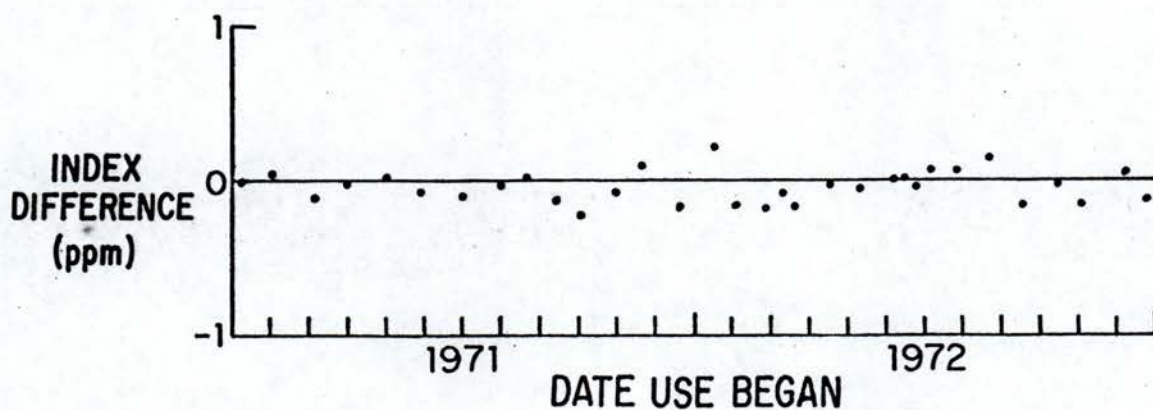


Figure 5. Index Difference (Mauna Loa minus Scripps) for Working Gas Tank Determinations.

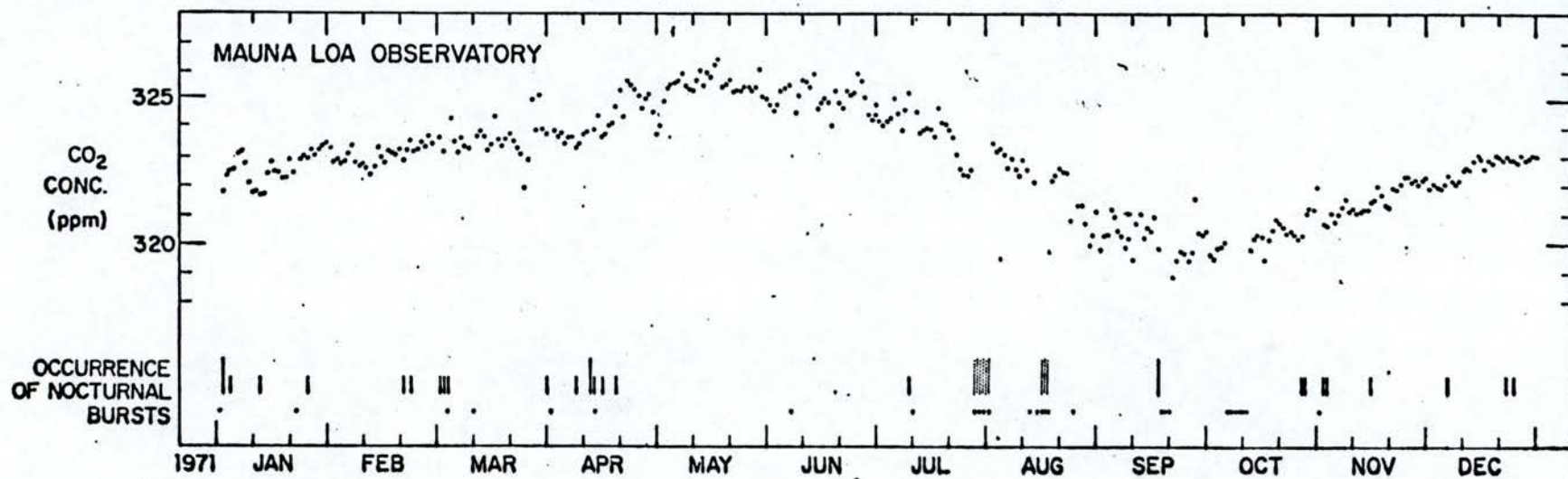


Figure 6. Daily Average CO₂ Concentration at Mauna Loa, 1971.

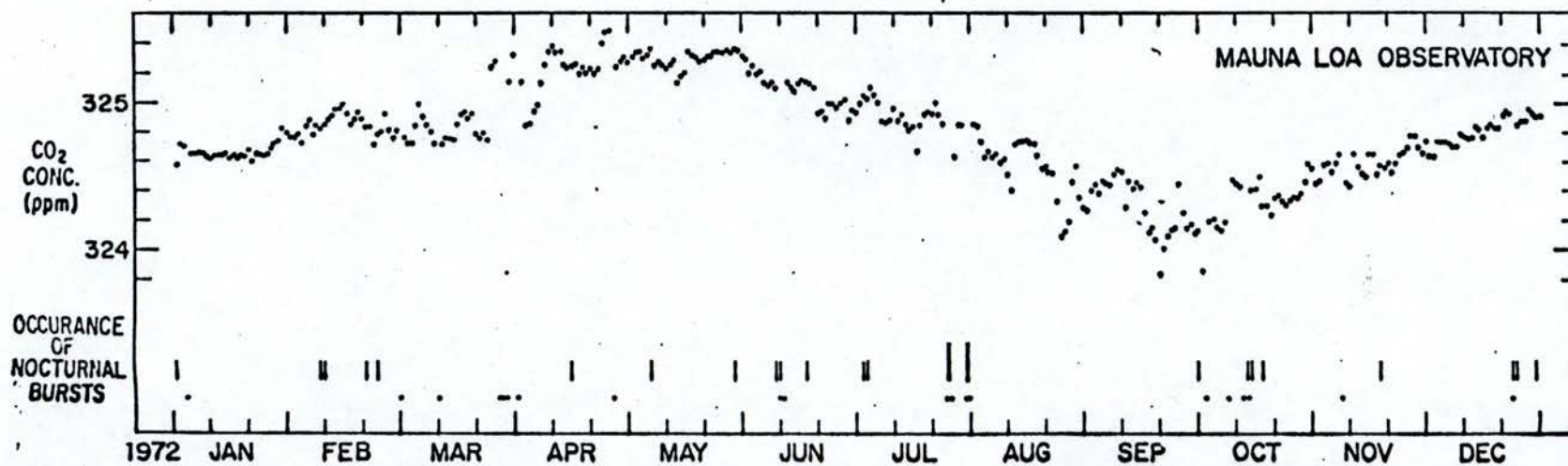


Figure 7. Daily Average CO₂ Concentration at Mauna Loa, 1972.

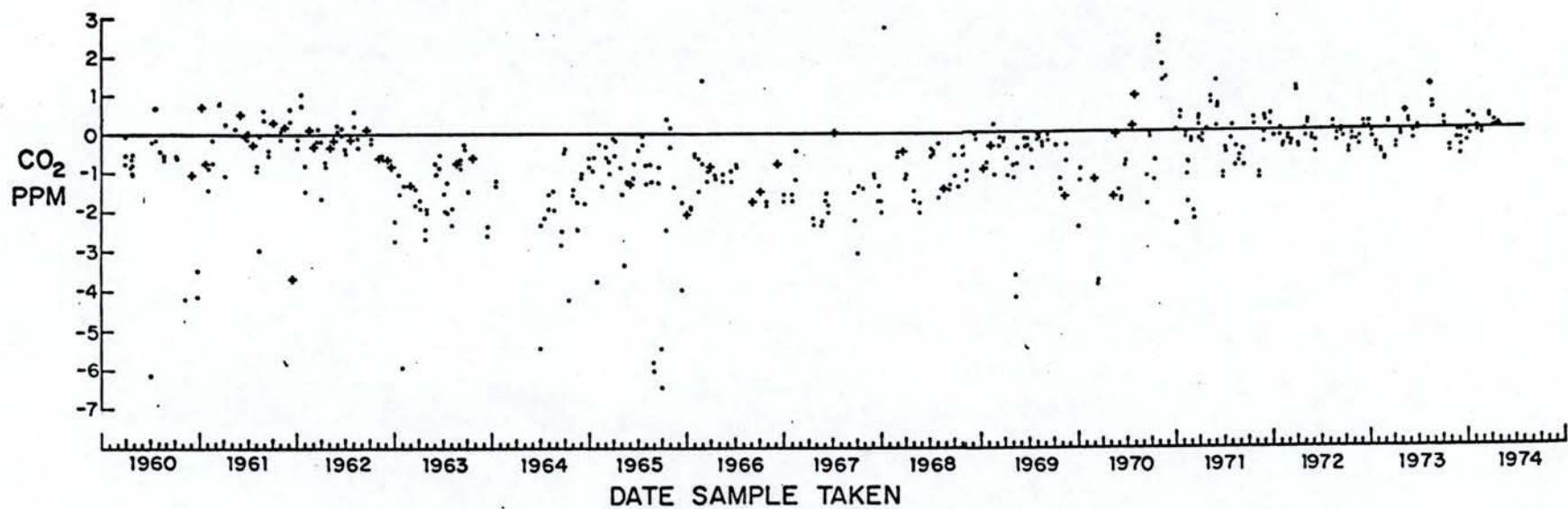


Figure 8. Difference in Atmospheric CO₂ Concentration ('59 Manometric)
 Measured by Mauna Loa Continuous Analyzer minus Flasks Filled
 there and Analyzed at Scripps,
 "+" indicates two samples very close together

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
2427	18208	17.98	10	1.13076	309.48	460	1 4 71
2423	18208	-2.94	9		309.55	460	
2423	2427	-20.99	10		289.15	460	
2423	4278	22.79	10			460	
2423	11076	6.24	10		319.94	460	
4278	7344	-25.60	10	1.12539		461	1 11 71
2427	7344	18.24	10		309.68	461	
2423	11076	6.36	10		320.04	461	
4278	7344	-25.74	10	1.11922	309.84	462	1 18 71
2423	7344	-2.67	9		309.89	462	
2423	4278	22.98	10			462	
2423	2427	-21.17	10		289.19	462	
2423	11076	6.30	10		319.93	462	
2423	4276	12.00	10		326.31	462	
4278	7344	-25.56	10	1.12715		463	1 25 71
2427	7344	18.21	10		309.68	463	
2423	4276	12.20	10		326.63	463	
2427	7344	18.31	10	1.13275	309.89	464	2 1 71
2423	7344	-2.83	9		309.67	464	
2423	2427	-21.03	10		289.06	464	
2423	4278	22.75	10			464	
2423	4276	12.24	10		326.74	464	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
4278	7344	-25.46	10	1.13158		465	2 8 71
2427	7344	17.99	10		309.51	465	
2423	4276	12.16	10		326.64	465	
4278	7344	-25.37	10	1.13600	309.83	466	2 16 71
2423	7344	-2.62	9		309.90	466	
2423	4278	22.62	10			466	
2423	2427	-20.77	10		289.29	466	
2423	4276	12.20	10		326.74	466	
2423	7362	8.66	10		322.72	466	
4278	7344	-25.06	10	1.14964		467	2 26 71
4271	7344	21.60	10		309.97	467	
2423	7362	8.55	10		322.71	467	
4271	7344	21.74	10	1.13574	309.83	468	3 5 71
2423	7344	-2.78	9		309.72	468	
2423	4271	-24.49	10		285.07	468	
2423	4278	22.69	10			468	
2423	7362	8.61	10		322.66	468	
4278	7344	-25.25	10	1.14099		469	3 12 71
4271	7344	21.72	10		309.92	469	
2423	7362	8.64	10		322.74	469	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
4278	7344	-25.12	10	1.14711	309.83	470	3 19 71
2423	7344	-2.64	9		309.85	470	
2423	4278	22.45	10			470	
2423	4271	-24.31	10		284.99	470	
2423	7362	8.64	10		322.79	470	
2423	1008	7.79	10		321.82	470	
3754	7344	-26.92	10	1.15007		471	3 29 71
4271	7344	21.52	10		309.89	471	
2423	1008	8.01	10		322.09	471	
4271	7344	21.68	10	1.14286	309.92	472	4 5 71
2423	7344	-2.72	9		309.77	472	
2423	4271	-24.38	10		285.02	472	
2423	3754	24.43	10			472	
2423	1008	8.00	10		322.09	472	
3754	7344	-27.28	10	1.13490		473	4 12 71
4271	7344	21.66	10		309.72	473	
2423	1008	8.31	10		322.31	473	
3754	7344	-27.20	10	1.14099	309.77	474	4 16 71
2423	7344	-2.70	9		309.80	474	
2423	3754	24.44	10			474	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUP) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
2423	4271	-24.52	10		284.90	474	
2423	1008	8.28	10		322.33	474	
2423	11082	8.76	10		322.88	474	
3754	7344	-26.95	10	1.14879		475	4 23 71
4271	7344	21.60	10		309.95	475	
2423	11082	8.60	10		322.76	475	
4271	7344	21.64	10	1.14661	309.95	476	4 ⁴ 30 71
2423	7344	-2.60	9		309.90	476	
2423	4271	-24.56	10		284.72	476	
2423	3754	24.35	10			476	
2423	11082	8.81	10		322.98	476	
3754	7344	-27.20	10	1.13824		477	5 7 71
4271	7344	21.71	10		309.85	477	
2423	11082	8.78	10		322.87	477	
3754	7344	-27.31	10	1.13820	309.72	478	5 14 71
2423	7344	-2.66	9		309.85	478	
2423	3754	24.41	10			478	
2423	4271	-24.47	10		285.03	478	
2423	11082	9.00	10		323.12	478	
2423	3754	5.31	10		318.92	478	
3754	7344	-27.00	10	1.14667		479	5 21 71

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
4271	7344	21.61	10		309.92	479	
2423	3759	5.23	10		318.88	479	
4271	7344	21.46	10	1.16091	310.05	480	5 28 71
2423	7344	-2.60	9		309.86	480	
2423	4271	-24.17	10		284.82	480	
2423	3754	24.05	10			480	
2423	3759	5.33	10		319.07	480	
3754	2423	-31.20	10	.89487		481	6 1 71
4271	2423	31.10	9		312.97	481	
2423	3759	6.64	10		318.82	481	
3754	7344	-34.45	10	.90414	309.65	482	6 7 71
2423	7344	-3.42	9		309.79	482	
2423	3754	30.73	10			482	
2423	4271	-30.69	10		285.13	482	
2423	3759	6.62	10		318.87	482	
2423	4296	5.94	10		318.25	482	
3754	2423	-29.75	10	.93849		483	6 14 71
4271	2423	29.82	10		313.13	483	
2423	4296	5.82	10		318.34	483	
4271	7344	24.59	10	.90591	307.42	484	6 21 71

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
2423	7344	-3.36	9		309.84	484	
2423	4271	-30.76	10		285.01	484	
2423	3754	30.82	10			484	
2423	4296	6.24	10		318.53	484	
3754	2423	-28.62	10	.97554		485	6 28 71
4271	2423	28.65	10		313.09	485	
2423	4296	5.71	10		318.45	485	
3754	7344	-30.37	10	1.01214	310.06	486	7 2 71
2423	7344	-3.08	9		309.76	486	
2423	3754	27.88	10			486	
2423	4271	-27.66	10		284.88	486	
2423	4296	5.60	10		318.55	486	
2423	4290	6.35	10		319.31	486	
3754	7344	-29.61	10	1.05777	309.48	487	7 9 71
2423	7344	-2.91	9		309.80	487	
2423	3754	26.09	10			487	
2423	4271	-26.19	10		285.16	487	
2423	2419	5.94	10		319.16	487	
3754	2423	-28.14	8	.99218		488	7 10 71
4271	2423	29.29	8		314.20	488	
2423	2419	6.61	10		319.44	488	
4271	7344	25.51	10	.95290	309.45	489	7 23 71

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
2423	7344	-3.38	8		309.66	489	
2423	4271	-29.06	10		285.19	489	
2423	3754	29.30	10			489	
2423	2419	6.99	10		319.54	489	
3754	2423	-29.97	10	.93160		490	8 2 71
4271	2423	29.81	9		312.91	490	
2423	2419	6.69	10		319.11	490	
3754	18208	-30.85	10	1.00430	309.82	491	8 6 71
4283	18208	-2.16	9		309.45	491	
4283	3754	29.42	10			491	
4283	4271	-27.03	10		284.47	491	
4283	2419	7.68	10		319.33	491	
4283	4277	6.81	10		318.46	491	
3754	4283	-31.24	10	.93406		492	8 13 71
4271	4283	28.36	10		311.63	492	
4283	4277	7.60	10		318.72	492	
4271	18214	26.13	10	.93406	309.55	493	8 20 71
4283	18208	-2.20	9		309.57	493	
4283	4271	-28.36	10		285.13	493	
4283	3754	31.24	10			493	
4283	4277	7.74	10		318.85	493	
3754	4283	-28.60	10	1.02028		494	8 27 71

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
4271	4283	25.83	10		311.49	494	
4283	4277	7.06	10		318.82	494	
3754	18204	-32.60	10	.95672	309.61	495	8 31 71
4283	18204	-2.19	9		309.52	495	
4283	3754	30.59	10			495	
4283	4271	-27.68	10		285.14	495	
4283	4277	7.57	10		318.86	495	
4283	2413	7.88	10		319.16	495	
3754	4283	-27.67	9	1.05457		496	9 3 71
4271	4283	25.66	10		312.20	496	
4283	2413	7.61	10		319.65	496	
4271	18204	23.27	10	1.03549	309.24	497	9 10 71
4283	18204	-1.91	10		309.64	497	
4283	4271	-25.61	10		285.10	497	
4283	3754	28.18	10			497	
4283	2413	7.57	10		319.46	497	
3754	4283	-28.85	10	1.01144		498	9 14 71
4271	4283	26.20	10		311.64	498	
4283	2413	7.65	10		319.36	498	
3754	18204	-33.21	10	.93948	309.60	499	9 23 71

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(SUB) STANDARD TANK NO.	COMPARED TANK NO.	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	RECORDER SCALE FACTOR	COMPUTED INDEX	SHEET NO.	DATE OF ANALYSIS
4283	18208	-2.27	9		309.49	499	
4283	3754	31.18	10			499	
4283	4271	-28.18	10		285.15	499	
4283	2414	8.33	10		319.45	499	
4283	1008	10.08	10		321.09	499	
3754	4283	-31.35	10	.93078		500	9 29 71
4271	4283	28.36	10		311.54	500	
4283	1008	10.46	10		321.36	500	
4271	18208	24.91	10	.98183	309.60	501	10 5 71
4283	18208	-2.10	9		309.56	501	
4283	4271	-27.17	10		284.94	501	
4283	3754	29.72	10			501	
4283	1008	10.02	10		321.46	501	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	4271	-28.10	10	0.94648	285.02	502	18 OCT 71
3754	18208	-33.04	10		309.53	502	
4283	18208	- 2.20	10		309.54	502	
4283	3754	30.82	10			502	
4283	181	9.60	10		320.71	502	
4283	4271	-27.90	10	0.94220	285.33	503	27 OCT 71
3754	18208	-33.06	10		309.65	503	
4283	18208	- 2.18	10		309.57	503	
4283	3754	31.06	10			503	
4283	181	9.99	10		321.03	503	
4283	4271	-28.20	10	0.92930	285.41	504	1 NOV 71
3754	18208	-33.60	10		309.58	504	
4283	18208	- 2.20	10		309.58	504	
4283	3754	31.40	10			504	
4283	181	9.93	10		320.85	504	
4283	4271	-28.34	10	0.93571	285.10	505	5 NOV 71
3754	18208	-33.40	10		309.55	505	
4283	18208	- 2.23	10		309.53	505	
4283	3754	31.20	10			505	
4283	181	9.98	10		320.96	505	
4283	4271	-28.34	10	0.93123	285.23	506	9 NOV 71
3754	18208	-33.49	10		309.61	506	
4283	18208	- 2.12	10		309.65	506	
4283	3754	31.30	10			506	
4283	181	10.00	10		320.93	506	
4283	11081	9.72	10		320.67	506	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	4271	-28.20	10	0.93451	285.27	507	17 NOV 71
3754	18208	-33.41	10		309.58	507	
4283	18208	- 2.20	10		309.56	507	
4283	3754	31.24	10			507	
4283	11081	9.83	10		320.81	507	
4283	4271	-27.90	10	0.94221	285.33	508	23 NOV 71
3754	18208	-33.20	10		309.52	508	
4283	18208	- 2.30	10		309.45	508	
4283	3754	31.04	10			508	
4283	11081	9.69	10		320.75	508	
4283	4271	-27.61	10	0.94709	285.47	509	30 NOV 71
3754	18208	-32.82	10		309.72	509	
4283	18208	- 2.20	10		309.54	509	
4283	3754	31.00	10			509	
4283	11081	9.70	10		320.81	509	
4283	4271	-28.20	10	0.93526	285.26	510	6 DEC 71
3754	18208	-33.43	10		309.53	510	
4283	18208	- 2.30	10		309.47	510	
4283	3754	31.27	10			510	
4283	11081	10.69	10		321.62	510	
4283	181	10.00	10		320.97	510	
4283	4271	-28.00	10	0.93857	285.34	511	8 DEC 71
3754	18208	-33.19	10		309.65	511	
4283	18208	- 2.20	10		309.56	511	
4283	3754	31.19	10			511	
4283	181	10.01	10		321.02	511	
4283	7362	10.50	10		321.47	511	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	4271	-27.63	10	0.95173	285.32	512	14 DEC 71
3754	18208	-32.80	10		309.58	512	
4283	18208	- 2.20	10		309.53	512	
4283	3674	30.72	10			512	
4283	7362	10.46	10		321.58	512	
4283	4271	-27.57	10	0.95422	285.31	513	21 DEC 71
3754	18208	-32.69	10		309.61	513	
4283	18208	- 2.18	10		309.54	513	
4283	3754	30.65	10			513	
4283	7362	10.60	10		321.73	513	
4283	4271	-28.19	10	0.94054	285.11	514	27 DEC 71
3754	18208	-33.16	10		309.61	514	
4283	18208	- 2.20	9		309.55	514	
4283	3754	31.09	10			514	
4283	7362	10.53	10		321.52	514	
4283	4271	-27.82	10	0.94848	285.23	515	3 JAN 72
3754	18208	-33.04	10		309.46	515	
4283	18208	- 2.11	10		309.62	515	
4283	3754	30.60	10			515	
4283	7362	10.57	10		321.65	515	
4283	7355	11.59	10		322.61	515	
4283	4271	-29.10	10	0.94388	284.15	516	11 JAN 72
3754	18208	-33.11	10		309.55	516	
4283	18208	- 2.30	10		309.45	516	
4283	3754	31.02	10			516	
4283	7355	11.80	10		322.76	516	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	4271	-28.22	10	0.94388	284.98	517	19 JAN 72
3754	18208	-32.98	9		309.67	517	
4283	18208	- 2.20	10		309.54	517	
4283	3754	31.05	10		517		
4283	7355	11.80	10		322.76	517	
4283	4271	-27.62	10	0.94663	285.47	518	24 JAN 72
3754	18208	-33.00	10		309.56	518	
4283	18208	- 2.19	10		309.55	518	
4283	3754	30.84	10		518		
4283	7355	11.72	10		322.71	518	
4283	4271	-27.84	10	0.94602	285.28	519	27 JAN 72
3754	18208	-33.01	10		309.57	519	
4283	18208	- 2.18	10		309.56	519	
4283	3754	30.86	10		519		
4283	7355	11.63	10		322.62	519	
4283	4276	11.00	10		322.03	519	
4283	4271	-27.90	10	0.94940	285.13	520	1 FEB 72
3754	18208	-33.06	10		309.41	520	
4283	18208	- 2.20	10		309.53	520	
4283	3754	30.61	10		520		
4283	4276	10.88	10		321.95	520	
4283	4271	-29.29	10	0.93857	284.13	521	9 FEB 72
3754	18208	-31.37	10		311.36	521	
4283	18208	- 2.31	10		309.45	521	
4283	3754	31.09	10		521		
4283	4276	10.80	10		321.76	521	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	4271	-28.09	10	0.93721	285.29	522	14 FEB 72
3754	18208	-33.35	10		309.54	522	
4283	18208	- 2.19	10		309.57	522	
4283	3754	31.11	10			522	
4283	4276	11.20	10		322.12	522	
4283	4271	-27.92	10	0.94495	285.24	523	17 FEB 72
3754	18208	-32.97	10		309.64	523	
4283	18208	- 2.20	10		309.54	523	
4283	3754	30.99	10			523	
4283	4276	11.08	10		322.09	523	
4283	2421	10.81	10	321.83	523		
4283	4271	-27.14	9	*	*	524	23 FEB 72
3754	18208	-31.76	10		*	524	
4283	18208	- 2.20	10		*	524	
4283	3754	29.50	10		*	524	
4283	2421	10.30	10		*	524	
*All calibration runs were rejected for this day, therefore unable to calculate RSF or indices.							
4283	4271	-27.91	10	0.94525	285.24	525	28 FEB 72
3754	18208	-33.08	10		309.53	525	
4283	18208	- 2.20	10		309.54	525	
4283	3754	30.86	10		309.76	525	
4283	2421	10.80	10		321.83	525	
4283	4271	-27.96	10	0.94342	285.24	526	7 MAR 72
3754	18208	-32.90	10			526	
4283	18208	- 2.20	10		309.54	526	
4283	3754	31.16	10			526	
4283	2421	10.72	10		321.73	526	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	4271	-27.63	10	0.95095	285.35	527	10 MAR 72
3754	18208	-32.85	10		309.56	527	
4283	18208	- 2.23	10		309.50	527	
4283	3754	30.75	10			527	
4283	2421	10.65	10		321.75	527	
4283	2407	10.86	10		321.95	527	
4283	4271	-27.75	10	0.96703	285.27	528	15 MAR 72
3754	18208	-32.28	10		309.58	528	
4283	18208	- 2.20	10		309.49	528	
4283	3754	30.27	10			528	
4283	2407	10.65	10		321.92	528	
4283	4271	-28.00	10	0.94129	285.26	529	20 MAR 72
3754	18208	-33.20	10		309.55	529	
4283	18208	- 2.20	10		309.55	529	
4283	3754	31.00	10			529	
4283	2407	11.02	10		321.99	529	
4283	4271	-28.18	10	0.93827	285.18	530	4 APR 72
3754	18208	-33.40	10		309.46	530	
4283	18208	- 2.20	10		309.56	530	
4283	3754	31.00	10			530	
4283	2407	11.20	10		322.13	530	
4283	2419	9.87	10		320.88	530	
4283	18208	- 2.29	10	0.93766	309.47	531	10 APR 72
3754	11082	-11.08	10		330.41	531	
4283	11082	20.10	10		330.47	531	
4283	3754	31.06	10			531	
4283	2419	10.02	10		321.02	531	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
4283	18208	- 2.25	10	0.94741	309.49	532	18 APR 72
3754	11082	-11.00	10		330.38	532	
4283	11082	19.90	10		330.47	532	
4283	3754	30.70	10			532	
4283	2419	9.72	10		320.83	532	
11089	18208	- 9.80	10	0.94355	309.74	533	25 APR 72
3754	11082	-11.00	10		330.42	533	
11089	11082	12.20	10		330.50	533	
11089	3754	23.03	10			533	
11089	2419	2.20	10		321.07	533	
11089	18208	- 9.80	10	0.94620	309.72	534	28 APR 72
3754	11082	-10.98	10		330.41	534	
11089	11082	12.20	10		330.53	534	
11089	3754	22.92	10			534	
11089	2419	2.20	10		321.07	534	
11089	4286	2.60	10		321.45	534	
11089	18208	-10.00	10	0.93827	309.61	535	4 MAY 72
3754	11082	-11.08	10		330.40	535	
11089	11082	12.20	10		330.44	535	
11089	3754	23.21	10			535	
11089	4286	2.65	10		321.48	535	
11089	18208	-10.20	10	0.94191	309.38	536	12 MAY 72
3754	11082	-11.21	10		330.24	536	
11089	11082	12.00	10		330.29	536	
11089	3754	23.10	10			536	
11089	4286	2.60	10		321.44	536	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	18208	-10.00	10	0.94826	309.51	537	17 MAY 72
3754	11082	-10.90	10		330.46	537	
11089	11082	12.10	10		330.46	537	
11089	3754	23.00	10			537	
11089	4286	2.64	10		321.49	537	
11089	18208	- 9.80	10	0.94888	309.69	538	22 MAY 72
3754	11082	-11.00	10		330.36	538	
11089	11082	12.00	10		330.38	538	
11089	3754	22.97	10			538	
11089	4286	2.63	10		321.49	538	
11089	1008	2.70	10		321.55	538	
11089	18208	- 9.68	10	0.97803	309.52	539	31 MAY 72
3754	11082	-10.60	10		330.43	539	
11089	11082	11.70	10		330.43	539	
11089	3754	22.30	10			539	
11089	1008	2.60	10		321.53	539	
11089	18208	- 9.83	10	0.94559	309.69	540	5 JUN 72
3754	11082	-10.89	10		330.50	540	
11089	11082	12.10	10		330.43	540	
11089	3754	23.14	10			540	
11089	1008	2.70	10		321.54	540	
11089	18208	- 9.63	10	0.97410	309.61	541	13 JUN 72
3754	11082	-10.60	10		330.47	541	
11089	11082	11.70	10		330.39	541	
11089	3754	22.48	10			541	
11089	1008	2.66	10		321.58	541	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	18208	- 9.60	10	0.97825	309.60	542	16 JUN 72
3754	11082	-10.60	10		330.43	542	
11089	11082	11.60	10		330.34	542	
11089	3754	22.39	10			542	
11089	1008	2.67	10		321.60	542	
11089	4290	2.56	10		321.49	542	
11089	18208	- 9.86	10	0.96185	309.51	543	21 JUN 72
3754	11082	-10.72	10		330.49	543	
11089	11082	11.92	10		330.46	543	
11089	3754	22.71	10			543	
11089	4290	2.62	10		321.51	543	
11089	1008	2.63	10		321.52	543	
11089	18208	- 9.60	10	0.97366	309.64	544	26 JUN 72
3754	11082	-10.70	10		330.38	544	
11089	11082	11.70	10		330.38	544	
11089	3754	22.40	10			544	
11089	4290	2.60	10		321.52	544	
11089	18208	-10.00	10	0.94888	309.50	545	
3754	11082	-10.90	10		330.46	545	
11089	11082	11.97	10		330.35	545	
11089	3754	23.10	10			545	
11089	4290	2.70	10		321.55	545	
11089	18208	- 9.93	10	0.94888	309.57	546	10 JUL 72
3754	11082	-10.97	10		330.39	546	
11089	11082	12.00	10		330.38	546	
11089	3754	23.00	10			546	
11089	4290	2.70	10		321.55	546	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	18208	-10.00	10	0.95607	309.43	547	13 JUL 72
2426	11082	- 8.33	10		330.40	547	
11089	11082	11.89	10		330.36	547	
11089	2426	20.30	10			547	
11089	4290	2.70	10		321.57	547	
11089	11076	1.20	10		320.14	547	
11089	18208	-10.60	6	0.93885	309.04	548	31 JUL 72
2426	11082	- 8.50	8		330.38	548	
11089	11082	12.60	9		330.82	548	
11089	2426	20.21	10			548	
11089	11076	1.30	10		320.21	548	
11089	18208	-10.20	7		0.93734	309.43	
2426	11082	- 8.30	8	330.58		549	
11089	11082	12.53	10	330.73		549	
11089	2426	20.50	10			549	
11089	11076	1.40	10	320.30		549	
11089	18208	-10.30	10	0.92123		309.50	550
2426	11082	- 8.64	9		330.40	550	
11089	11082	12.32	10		330.34	550	
11089	2426	21.10	9			550	
11089	11076	1.40	10		320.28	550	
11089	4277	1.00	10		319.91	550	
11089	18208	-10.50	10	0.91282	309.41	551	21 AUG 72
2426	11082	- 8.58	10		330.53	551	
11089	11082	12.60	10		330.49	551	
11089	2426	21.26	10			551	
11089	4277	1.37	10		320.24	551	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	6052	18.70	9	0.92698	336.32	552	25 AUG 72
2426	11082	- 8.60	10		330.39	552	
11089	11082	12.40	9		330.48	552	
11089	2426	20.78	9			552	
11089	4277	1.29	9		320.19	552	
11089	6052	18.60	10	0.92613	336.22	553	31 AUG 72
2462	11082	- 8.60	10		330.40	553	
11089	11082	12.42	10		330.49	553	
11089	2426	20.81	10			553	
11089	4277	1.20	10		320.10	553	
11089	6052	18.93	10	0.92128	336.43	554	6 SEP 72
2426	11082	- 8.48	10		330.55	554	
11089	11082	12.47	10		330.48	554	
11089	2426	21.10	10			554	
11089	4277	1.31	10		320.20	554	
11089	2418	2.45	10		321.25	554	
11089	6052	18.80	10	0.92946	336.46	555	15 SEP 72
2426	11082	- 8.59	10		330.38	555	
11089	11082	12.45	10		330.56	555	
11089	2426	20.64	10			555	
11089	2418	2.34	10		321.16	555	
11089	6052	11.92	10	1.45914	336.38	556	21 SEP 72
2426	11082	- 5.39	10		330.50	556	
11089	11082	7.80	10		330.37	556	
11089	2426	13.36	10			556	
11089	2418	1.60	10		321.32	556	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	6052	19.07	10	0.91801	336.50	557	27 SEP 72
2426	11082	- 8.60	10		330.47	557	
11089	11082	12.53	10		330.49	557	
11089	2426	21.07	10		557		
11089	2418	2.30	10		321.10	557	
11089	6052	19.20	10	0.91411	336.54	558	2 OCT 72
2426	11082	- 8.58	10		330.52	558	
11089	11082	12.60	10		330.51	558	
11089	2426	21.20	10		558		
11089	2418	2.60	10		321.37	558	
11089	4296	1.40	10		320.27	558	
11089	6052	18.88	10	0.92150	336.39	559	10 OCT 72
2426	11082	- 8.50	10		330.53	559	
11089	11082	12.44	10		330.45	559	
11089	2426	21.10	10		559		
11089	4296	1.50	10		320.37	559	
11089	6052	19.10	10	0.90896	336.35	560	18 OCT 72
2426	11082	- 8.65	10		330.50	560	
11089	11082	12.50	10		330.35	560	
11089	2426	21.47	10		560		
11089	4296	1.60	10		320.44	560	
11089	6052	18.37	10	0.92525	335.99	561	25 OCT 72
2426	11082	- 8.87	10		330.15	561	
11089	11082	12.00	10		330.09	561	
11089	2426	21.00	10		561		
11089	4296	1.44	10		320.32	561	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	6052	19.40	10	0.89304	336.31	562	27 OCT 72
2426	11082	- 8.94	10		330.38	562	
11089	11082	12.84	10		330.46	562	
11089	2426	21.60	10			562	
11089	4296	1.42	10		320.26	562	
11089	11081	3.56	10		322.17	562	
11089	6052	17.63	10	0.90641	334.97	563	1 NOV 72
4278	11082	- 8.59	10		330.86	563	
11089	11082	11.56	10		329.47	563	
11089	4278	21.69	10			563	
11089	11081	3.50	10		322.16	563	
11089	6052	20.56	10	*	*	564	7 NOV 72
4278	11082	- 9.23	10		*	564	
11089	11082	13.46	9		*	564	
11089	4278	22.25	10		*	564	
11089	11081	3.99	10		*	564	
*All calibration runs were rejected for this day therefore unable to calculate RSF or indices.							
11089	6052	18.94	10	*	*	565	9 NOV 72
4278	11082	- 9.71	10		*	565	
11089	11082	12.51	10		*	565	
11089	4278	23.20	10		*	565	
11089	11081	4.30	10		*	565	
11089	4295	2.60	10		*	565	
*All calibration runs were rejected for this day therefore unable to calculate RSF or indices.							
11089	6052	19.00	10	0.89262	335.95	566	14 NOV 72
4278	11082	- 9.20	10		330.44	566	
11089	11082	12.55	9		330.19	566	
11089	4278	22.30	10			566	
11089	4295	2.30	10		321.04	566	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
11089	6052	19.02	10	0.91505	336.39	567	20 NOV 72
4278	11082	- 9.08	10		330.34	567	
11089	11082	12.38	10		330.32	567	
-1089	4278	21.51	10			567	
11089	4295	2.21	10		321.01	567	
11089	6052	18.91	10	0.91061	336.21	568	27 NOV 72
4278	11082	- 8.97	10		330.48	568	
11089	11082	12.58	10		330.45	568	
11089	4278	21.63	10			568	
11089	4295	2.20	10		320.99	568	
18207	6052	19.92	9	0.93180	336.42	569	1 DEC 72
4278	11082	- 8.64	10		330.60	569	
18207	11082	13.61	10		330.54	569	
18207	4278	22.38	9			569	
18207	4295	3.40	10		321.03	569	
18207	4276	2.48	10		320.17	569	
18207	6052	20.11	10	0.91788	336.32	570	8 DEC 72
4278	11082	- 8.57	10		330.78	570	
18207	11082	13.29	10		330.06	570	
18207	4278	22.65	10			570	
18207	4276	2.77	10		320.40	570	
18207	6052	20.21	10	0.93312	336.72	571	14 DEC 72
4278	11082	- 8.82	10		330.42	571	
18207	11082	13.44	10		330.40	571	
18207	4278	22.28	10			571	
18207	4276	2.51	10		320.20	571	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
18207	6052	20.23	10	0.91405	336.35	572	19 DEC 72
4278	11082	- 8.93	10		330.49	572	
18207	11082	13.93	10		330.59	572	
18207	4278	22.63	10			572	
18207	4276	2.61	10		320.25	572	
18207	6052	19.65	10	0.94200	336.37	573	22 DEC 72
4278	11082	- 8.60	10		330.55	573	
18207	11082	13.61	10		330.68	573	
18207	4278	21.93	10			573	
18207	4276	2.62	10		320.33	573	
18207	10074	2.76	10		320.46	573	
18207	6052	19.23	10	0.95917	336.30	574	28 DEC 72
4278	11082	- 8.59	10		330.41	574	
18207	11082	13.18	10		330.50	574	
18207	4278	21.58	10			574	
18207	10074	2.69	10		320.44	574	
18207	6052	19.00	10	0.97491	336.38	575	3 JAN 73
4278	11082	- 8.30	10		330.56	575	
18207	11082	12.95	10		330.49	575	
18207	4278	21.40	10			575	
18207	10074	2.74	10		320.53	575	
18207	6052	18.81	10	0.98558	336.40	576	8 JAN 73
4278	11082	- 8.27	10		330.50	576	
18207	11082	12.72	9		330.40	576	
18207	4278	21.21	9			576	
18207	10074	2.58	10		320.40	576	

TABLE 1. REFERENCE GAS COMPARISONS AT MAUNA LOA

1	2	3	4	5	6	7	8
(Sub) Standard Tank No.	Compared Tank No.	Observed Scale Difference	No. of Compari- sons	Recorder Scale Factor	Computed Index	Sheet No.	Date of Analysis
18207	6052	18.63	10	0.98437	336.20	577	15 JAN 73
4278	11082	- 8.34	10		330.44	577	
18207	11082	12.85	10		330.51	577	
18207	4278	21.05	10			577	
18207	10074	2.71	10		320.53	577	
18207	4286	5.02	10		322.80	577	
18207	6052	18.64	10	0.98391	336.20	578	24 JAN 73
4278	11082	- 8.32	10		330.46	578	
18207	11082	12.93	10		330.58	578	
18207	4278	21.01	10			578	
18207	4286	5.16	10		322.94	578	
18207	6052	18.64	10		0.98648	336.25	
4278	11082	- 8.30	10	330.46		579	
18207	11082	12.84	10	330.53		579	
18207	4278	21.01	10			579	
18207	4286	5.14	10	322.93		579	

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
2423	4278	-22.79	10	-25.77	1.13076		4JAN71	460
			10			1.13076		
4278	7344	25.60	10	28.81	1.12539		11JAN71	461
			10			1.12539		
4278	7344	25.74	10				18JAN71	462
2423	7344	2.67	9					
2423	4278	-23.07*	10*	-25.77	1.11704			
2423	4278	-22.98	10	-25.77	1.12141			
			20			1.11922		
4278	7344	25.56	10	28.81	1.12715		25JAN71	463
			10			1.12715		
2423	4278	-22.75	10	-25.77	1.13275		1FEB71	464
			10			1.13275		
4278	7344	25.46	10	28.81	1.13158		8FEB71	465
			10			1.13158		
4278	7344	25.37	10				16FEB71	466
2423	7344	2.62	9					
2423	4278	-22.75*	10*	-25.77	1.13275			
2423	4278	-22.62	10	-25.77	1.13926			
			20			1.13599		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
4278	7344	25.06	10 10	28.81	1.14964	1.14964	26FEB71	467
2423	4278	-22.69	10 10	-25.77	1.13574	1.13574	5MAR71	468
4278	7344	25.25	10 10	28.81	1.14099	1.14099	12MAR71	469
4278	7344	25.12	10				19MAR71	470
2423	7344	2.64	9					
2423	4278	-22.48*	10*	-25.77	1.14635			
2423	4278	-22.45	10 20	-25.77	1.14788	1.14712		
3754	7344	26.92	10 10	30.96	1.15007	1.15007	29MAR71	471
2423	3754	-24.43	10 10	-27.92	1.14286	1.14286	5APR71	472
3754	7344	27.28	10 10	30.96	1.13490	1.13490	12APR71	473

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	7344	27.20	10				16APR71	474
2423	7344	2.70	9					
2423	3754	-24.50*	10*	-27.92	1.13959			
2423	3754	-24.44	10	-27.92	1.14239			
			20			1.14099		
3754	7344	26.95	10	30.96	1.14879		23APR71	475
			10			1.14879		
2423	3754	-24.35	10	-27.92	1.14661		30APR71	476
			10			1.14661		
3754	7344	27.20	10	30.96	1.13824		7MAY71	477
			10			1.13824		
3754	7344	27.31	10				14MAY71	478
2423	7344	2.66	9					
2423	3754	-24.65*	10*	-27.92	1.13266			
2423	3754	-24.41	10	-27.92	1.14379			
			20			1.13820		
3754	7344	27.00	10	30.96	1.14667		21MAY71	479
			10			1.14667		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPART- MENTS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
2423	3754	-24.05	10 10	-27.92	1.16091	1.16091	28MAY71	480
3754	2423	31.20	10 10	27.92	0.89487	0.89487	1JUN71	481
3754	7344	34.45	10				7JUN71	482
2423	7344	3.42	9					
2423	3754	-31.03*	10*	-27.92	0.89977			
2423	3754	-30.73	10 20	-27.92	0.90856	0.90415		
3754	2423	29.75	10 10	27.92	0.93849	0.93849	14JUN71	483
2423	3754	-30.82	10 10	-27.92	0.90591	0.90591	21JUN71	484
3754	2423	28.62	10 10	27.92	0.97554	0.97554	28JUN71	485
3754	7344	30.37	10				2JUL71	486
2423	7344	3.08	9					
2423	3754	-27.29*	10*	-27.92	1.02309			
2423	3754	-27.88	10 20	-27.92	1.00143	1.01214		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	7344	29.61	10				9JUL71	487
2423	7344	2.91	9					
2423	3754	-26.70*	10*	-27.92	1.04569			
2423	3754	-26.09	10	-27.92	1.07014			
			20			1.05778		
3754	2423	28.14	8	27.92	0.99218		16JUL71	488
			8			0.99218		
2423	3754	-29.30	10	-27.92	0.95290		23JUL71	489
			10			0.95290		
3754	2423	29.97	10	27.92	0.93160		2AUG71	490
			10			0.93160		
3754	1820A	30.85	10				6AUG71	491
4283	1820A	2.16	9					
4283	3754	-28.69*	10*	-29.18	1.01708			
4283	3754	-29.42	10	-29.18	0.99184			
			20			1.00430		
3754	4283	31.24	10	29.18	0.93406		13AUG71	492
			10			0.93406		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
4283	3754	-31.24	10	-29.18	0.93406		20AUG71	493
			10			0.93406		
3754	4283	28.60	10	29.18	1.02028		27AUG71	494
			10			1.02028		
3754	18208	32.60	10				31AUG71	495
4283	18208	2.19	9					
4283	3754	-30.41*	10*	-29.18	0.95955			
4283	3754	-30.59	10	-29.18	0.95391			
			20			0.95672		
3754	4283	27.67	9	29.18	1.05457		3SEP71	496
			9			1.05457		
4283	3754	-28.18	10	-29.18	1.03549		10SEP71	497
			10			1.03549		
3754	4283	28.85	10	29.18	1.01144		14SEP71	498
			10			1.01144		
3754	18208	33.21	10				23SEP71	499
4283	18208	2.27	9					
4283	3754	-30.94*	10*	-29.18	0.94312			
4283	3754	-31.18	10	-29.18	0.93586			

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	4283	31.35	10	29.18	0.93078		29SEP71	500
			10			0.93078		
4283	3754	-29.72	10	-29.18	0.98183		5OCT71	501
			10			0.98183		
3754	18208	-33.04	10				18OCT71	502
4283	18208	-2.20	10					
4283	3754	30.84*	10*	29.18	0.94617			
4283	3754	30.82	10	29.18	0.94679			
			20			0.94648		
3754	18208	-33.06	10				27OCT71	503
4283	18208	-2.18	10					
4283	3754	30.88*	10*	29.18	0.94495			
4283	3754	31.06	10	29.18	0.93947			
			20			0.94220		
3754	18208	-33.60	10				1NOV71	504
4283	18208	-2.20	10					
4283	3754	31.40*	10*	29.18	0.92930			
4283	3754	31.40	10	29.18	0.92930			
			20			0.92930		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	10208	-33.40	10				5NOV71	505
4203	10208	-2.23	10					
4203	3754	31.17*	10*	29.18	0.93616			
4203	3754	31.20	10	29.18	0.93526			
			20			0.93571		
3754	10208	-33.49	10				9NOV71	506
4203	10208	-2.12	10					
4203	3754	31.37*	10*	29.18	0.93019			
4203	3754	31.30	10	29.18	0.93227			
			20			0.93123		
3754	10208	-33.41	10				17NOV71	507
4203	10208	-2.20	10					
4203	3754	31.21*	10*	29.18	0.93496			
4203	3754	31.24	10	29.18	0.93406			
			20			0.93451		
3754	10208	-33.20	10				23NOV71	508
4203	10208	-2.30	10					
4203	3754	30.90*	10*	29.18	0.94434			
4203	3754	31.04	10	29.18	0.94008			
			20			0.94220		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	18208	-32.82	10				30NOV71	509
4283	18208	-2.20	10					
4283	3754	30.62*	10*	29.18	0.95297			
4283	3754	31.00	10	29.18	0.94129			
			20			0.94710		
3754	18208	-33.43	10				6DEC71	510
4283	18208	-2.30	10					
4283	3754	31.13*	10*	29.18	0.93736			
4283	3754	31.27	10	29.18	0.93316			
			20			0.93526		
3754	18208	-33.19	10				8DEC71	511
4283	18208	-2.20	10					
4283	3754	30.99*	10*	29.18	0.94159			
4283	3754	31.19	10	29.18	0.93556			
			20			0.93857		
3754	18208	-32.80	10				14DEC71	512
4283	18208	-2.20	10					
4283	3754	30.60*	10*	29.18	0.95359			
4283	3754	30.72	10	29.18	0.94987			
			20			0.95173		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	18208	-32.69	10				21DEC71	513
4283	18208	-2.18	10					
4283	3754	30.51*	10*	29.18	0.95641			
4283	3754	30.65	10	29.18	0.95204			
			20			0.95422		
3754	18208	-33.16	10				27DEC71	514
4283	18208	-2.20	9					
4283	3754	30.96*	10*	29.18	0.94251			
4283	3754	31.09	10	29.18	0.93857			
			20			0.94053		
3754	18208	-33.04	10				3JAN72	515
4283	18208	-2.11	10					
4283	3754	30.93*	10*	29.18	0.94342			
4283	3754	30.60	10	29.18	0.95359			
			20			0.94848		
3754	18208	-33.11	10				11JAN72	516
4283	18208	-2.30	10					
4283	3754	30.81*	10*	29.18	0.94710			
4283	3754	31.02	10	29.18	0.94068			
			20			0.94388		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	18208	-32.98	9				19JAN72	517
4283	18208	-2.20	10					
4283	3754	30.78*	10*	29.18	0.94802			
4283	3754	31.05	10	29.18	0.93977			
			20			0.94388		
3754	18208	-33.00	10				24JAN72	518
4283	18208	-2.19	10					
4283	3754	30.81*	10*	29.18	0.94710			
4283	3754	-30.84	10	29.18	0.94617			
			20			0.94663		
3754	18208	-33.01	10				27JAN72	519
4283	18208	-2.18	10					
4283	3754	30.83*	10*	29.18	0.94648			
4283	3754	30.86	10	29.18	0.94556			
			20			0.94602		
3754	18208	-33.06	10				1FEB72	520
4283	18208	-2.20	10					
4283	3754	30.86*	10*	29.18	0.94556			
4283	3754	30.61	10	29.18	0.95328			
			20			0.94941		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	18208	-31.37	10				9 FEB 72	521
4283	18208	- 2.31	10					
4283	3754	29.06*	10*	29.18	1.00413**			
4283	3754	31.09	10 20	29.18	0.93857	0.93857		
3754	18208	-33.35	10				14 FEB 72	522
4238	18208	- 2.19	10					
4283	3754	31.16*	10*	29.18	0.93646			
4283	3754	31.11	10 20	29.18	0.93796	0.93721		
3754	18208	-32.97	10				17 FEB 72	523
4283	18208	- 2.20	10					
4283	3754	30.77*	10*	29.18	0.94833			
4283	3754	30.99	10 20	29.18	0.94159	0.94495		
3754	18208	-31.76	10				23 FEB 72	524
4283	18208	- 2.20	10					
4283	3754	20.56*	10*	29.18	0.98714***			
4283	3754	29.50	10 20	29.18	0.98915***			

**This calculation was rejected and is not included in weighted average.

***All calibration runs were rejected for this day.

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPART- SONS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
3754	18208	-33.08	10				28FEB72	525
4283	18208	-2.20	10					
4283	3754	30.88*	10*	29.18	0.94495			
4283	3754	30.86	10	29.18	0.94556			
			20			0.94525		
3754	18208	-32.90	10				7MAR72	526
4283	18208	-2.20	10					
4283	3754	30.70*	10*	29.18	0.95049			
4283	3754	31.16	10	29.18	0.93646			
			20			0.94342		
3754	18208	-32.85	10				10MAR72	527
4283	18208	-2.23	10					
4283	3754	30.62*	10*	29.18	0.95297			
4283	3754	30.75	10	29.18	0.94894			
			20			0.95095		
3754	18208	-32.28	10				15MAR72	528
4283	18208	-2.20	10					
4283	3754	30.08*	10*	29.18	0.97008			
4283	3754	30.27	10	29.18	0.96399			
			20			0.96703		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
3754	18208	-33.20	10				20MAR72	529
4283	18208	-2.20	10					
4283	3754	31.00*	10*	29.18	0.94129			
4283	3754	31.00	10	29.18	0.94129			
			20			0.94129		
3754	18208	-33.40	10				4APR72	530
4283	18208	-2.20	10					
4283	3754	31.20*	10*	29.18	0.93526			
4283	3754	31.00	10	29.18	0.94129			
			20			0.93826		
3754	11082	-11.08	10				10APR72	531
4283	11082	20.10	10					
4283	3754	31.18*	10*	29.18	0.93586			
4283	3754	31.06	10	29.18	0.93947			
			20			0.93766		
3754	11082	-11.00	10				18APR72	532
4283	11082	19.90	10					
4283	3754	30.90*	10*	29.18	0.94434			
4283	3754	30.70	10	29.18	0.95049			
			20			0.94740		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
3754	11082	-11.00	10				25APR72	533
11089	11082	12.20	10					
11089	3754	23.20*	10*	21.81	0.94009			
11089	3754	23.03	10	21.81	0.94703			
			20			0.94354		
3754	11082	-10.98	10				28APR72	534
11089	11082	12.20	10					
11089	3754	23.18*	10*	21.81	0.94090			
11089	3754	22.92	10	21.81	0.95157			
			20			0.94620		
3754	11082	-11.08	10				4MAY72	535
11089	11082	12.20	10					
11089	3754	23.28*	10*	21.81	0.93686			
11089	3754	23.21	10	21.81	0.93968			
			20			0.93827		
3754	11082	-11.21	10				12MAY72	536
11089	11082	12.00	10					
11089	3754	23.21*	10*	21.81	0.93968			
11089	3754	23.10	10	21.81	0.94416			
			20			0.94191		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
3754	11082	-10.90	10				17MAY72	537
11089	11082	12.10	10					
11089	3754	23.00*	10*	21.81	0.94826			
11089	3754	23.00	10	21.81	0.94826			
			20			0.94826		
3754	11082	-11.00	10				22MAY72	538
11089	11082	12.00	10					
11089	3754	23.00*	10*	21.81	0.94826			
11089	3754	22.97	10	21.81	0.94950			
			20			0.94888		
3754	11082	-10.60	10				31MAY72	539
11089	11082	11.70	10					
11089	3754	22.30*	10*	21.81	0.97803			
11089	3754	22.30	10	21.81	0.97803			
			20			0.97803		
3754	11082	-10.89	10				5JUN72	540
11089	11082	12.10	10					
11089	3754	22.99*	10*	21.81	0.94867			
11089	3754	23.14	10	21.81	0.94252			
			20			0.94559		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 5B
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
3754	11082	-10.60	10				13JUN72	541
11089	11082	11.70	10					
11089	3754	22.30*	10*	21.81	0.97803			
11089	3754	22.48	10	21.81	0.97020			
			20			0.97410		
3754	11082	-10.60	10				16JUN72	542
11089	11082	11.60	10					
11089	3754	22.20*	10*	21.81	0.98243			
11089	3754	22.39	10	21.81	0.97410			
			20			0.97825		
3754	11082	-10.72	10				21JUN72	543
11089	11082	11.92	10					
11089	3754	22.64*	10*	21.81	0.96334			
11089	3754	22.71	10	21.81	0.96037			
			20			0.96185		
3754	11082	-10.70	10				26JUN72	544
11089	11082	11.70	10					
11089	3754	22.40*	10*	21.81	0.97366			
11089	3754	22.40	10	21.81	0.97366			
			20			0.97366		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPART- MENTS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
3754	11082	-10.90	10				5JUL72	545
11089	11082	11.97	10					
11089	3754	22.87*	10*	21.81	0.95365			
11089	3754	23.10	10	21.81	0.94416			
			20			0.94888		
3754	11082	-10.97	10				10JUL72	546
11089	11082	12.00	10					
11089	3754	22.97*	10*	21.81	0.94950			
11089	3754	23.00	10	21.81	0.94826			
			20			0.94888		
2426	11082	-8.33	10				13JUL72	547
11089	11082	11.89	10					
11089	2426	20.22*	10*	19.37	0.95796			
11089	2426	20.30	10	19.37	0.95419			
			20			0.95607		
2426	11082	-8.50	8				31JUL72	548
11089	11082	12.60	9					
11089	2426	21.10*	9*	19.37	0.91801			
11089	2426	20.21	10	19.37	0.95844			
			19			0.93885		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPART- SONS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
2426	11082	-8.30	8				3AUG72	549
11089	11082	12.53	10					
11089	2426	20.83*	10*	19.37	0.92991			
11089	2426	20.50	10	19.37	0.94488			
			20			0.93733		
2426	11082	-8.64	9				11AUG72	550
11089	11082	12.32	10					
11089	2426	20.96*	10*	19.37	0.92414			
11089	2426	21.10	9	19.37	0.91801			
			19			0.92123		
2426	11082	-8.58	10				21AUG72	551
11089	11082	12.60	10					
11089	2426	21.18*	10*	19.37	0.91454			
11089	2426	21.26	10	19.37	0.91110			
			20			0.91282		
2426	11082	-8.60	10				25AUG72	552
11089	11082	12.40	9					
11089	2426	21.00*	10*	19.37	0.92238			
11089	2426	20.78	9	19.37	0.93215			
			19			0.92698		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9
STANDARD TANK NUMBER	COMPARED TANK NUMBER	OBSERVED SCALE DIFFERENCE	NO. OF COMPARI- SONS	INDEX DIFFERENCE	RECORDER SINGLE SET	SCALE FACTOR WEIGHTED AVERAGE	DATE OF ANALYSIS	SHEET NUMBER
2426	11082	-8.60	10				31AUG72	553
11089	11082	12.42	10					
11089	2426	21.02*	10*	19.37	0.92150			
11089	2426	20.81	10	19.37	0.93080			
			20			0.92613		
2426	11082	-8.48	10				6SEP72	554
11089	11082	12.47	10					
11089	2426	20.95*	10*	19.37	0.92458			
11089	2426	21.10	10	19.37	0.91801			
			20			0.92128		
2426	11082	-8.59	10				15SEP72	555
11089	11082	12.45	10					
11089	2426	21.04*	10*	19.37	0.92063			
11089	2426	20.64	10	19.37	0.93847			
			20			0.92946		
2426	11082	-5.39	10				21SEP72	556
11089	11082	7.80	10					
11089	2426	13.19*	10*	19.37	1.46854			
11089	2426	13.36	10	19.37	1.44985			
			20			1.45913		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPART- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
2426	11082	-8.60	10				27SEP72	557
11089	11082	12.53	10					
11089	2426	21.13*	10*	19.37	0.91671			
11089	2426	21.07	10	19.37	0.91932			
			20			0.91801		
2426	11082	-8.58	10				20OCT72	558
11089	11082	12.60	10					
11089	2426	21.18*	10*	19.37	0.91454			
11089	2426	21.20	10	19.37	0.91368			
			20			0.91411		
2426	11082	-8.50	10				10OCT72	559
11089	11082	12.44	10					
11089	2426	20.94*	10*	19.37	0.92502			
11089	2426	21.10	10	19.37	0.91801			
			20			0.92150		
2426	11082	-8.65	10				18OCT72	560
11089	11082	12.50	10					
11089	2426	21.15*	10*	19.37	0.91584			
11089	2426	21.47	10	19.37	0.90219			
			20			0.90896		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
2426	11089	- 8.87	10				25 OCT 72	561
11089	11082	12.00	10					
11089	2426	20.87*	10*	19.37	0.92813			
11089	2426	21.00	10	19.37	0.92238			
			20			0.92524		
2426	11082	- 8.94	10				27 OCT 72	562
11089	11082	12.84	10					
11089	2426	21.78*	10*	19.37	0.88935			
11089	2426	21.60	10	19.37	0.89676			
			20			0.89304		
4278	11082	- 8.59	10				1 NOV 72	563
11089	11082	11.56	10					
11089	4278	20.15*	10*	19.66	0.97568**			
11089	4278	21.69	10	19.66	0.90641			
			20			0.90641		
4278	11082	- 9.23	10				7 NOV 72	564
11089	11082	13.46	9					
11089	4278	22.69*	10*	19.66	0.86646***			
11089	4278	22.25	10	19.66	0.88360***			
			20					

**This calculation was rejected and is not included in the weighted average

***All calibration runs were rejected for this day.

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
4278	11082	- 9.71	10				9 NOV 72	565
11089	11082	12.51	10					
11089	4278	22.22*	10*	19.66	0.88479***			
11089	4278	23.20	10 20	19.66	0.84741***			
4278	11082	- 9.20	10				14 NOV 72	566
11089	11082	12.55	9					
11089	4278	21.75*	10*	19.66	0.90391			
11089	4278	22.30	10 20	19.66	0.88161	0.89262		
4278	11082	- 9.08	10				20 NOV 72	567
11089	11082	12.38	10					
11089	4278	21.46*	10*	19.66	0.91612			
11089	4278	21.51	10 20	19.66	0.91399	0.91506		
4278	11082	- 8.97	10				27 NOV 72	568
11089	11082	12.58	10					
11089	4278	21.55*	10*	19.66	0.91230			
11089	4278	21.63	10 20	19.66	0.90892	0.91061		

***All calibration runs were rejected for this day.

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
4278	11082	- 8.64	10				1 DEC 72	569
18207	11082	13.61	10					
18207	4278	22.25*	10*	20.79	0.93438			
18207	4278	22.38	9 19	20.79	0.92895	0.93180		
4278	11082	- 8.57	10				8 DEC 72	570
18207	11082	13.29	10					
18207	4278	21.86*	10*	20.79	0.95105**			
18207	4278	22.65	10 20	20.79	0.91788	0.91788		
4278	11082	- 8.82	10				14 DEC 72	571
18207	11082	13.44	10					
18207	4278	22.26*	10*	20.79	0.93396**			
18207	4278	22.28	10 20	20.79	0.93312	0.93312		
4278	11082	- 8.93	10				19 DEC 72	572
18207	11082	13.93	10					
18207	4278	22.86*	10*	20.79	0.90945			
18207	4278	22.63	10 20	20.79	0.91869	0.91405		

**This calculation was rejected and is not included in the weighted average.

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
4278	11082	-8.60	10				22DEC72	573
18207	11082	13.61	10					
18207	4278	22.21*	10*	20.79	0.93606			
18207	4278	21.93	10	20.79	0.94802			
			20			0.94200		
4278	11082	-8.59	10				28DEC72	574
18207	11082	13.18	10					
18207	4278	21.77*	10*	20.79	0.95498			
18207	4278	21.58	10	20.79	0.96339			
			20			0.95917		
4278	11082	-8.30	10				3JAN73	575
18207	11082	12.95	10					
18207	4278	21.25*	10*	20.79	0.97835			
18207	4278	21.40	10	20.79	0.97150			
			20			0.97491		
4278	11082	-8.27	10				8JAN73	576
18207	11082	12.72	9					
18207	4278	20.99*	10*	20.79	0.99047			
18207	4278	21.21	9	20.79	0.98020			
			19			0.98558		

TABLE 2. RECORDER SCALE FACTORS OF ANALYZER NO. 58
MAUNA LOA CARBON DIOXIDE PROJECT

1 STANDARD TANK NUMBER	2 COMPARED TANK NUMBER	3 OBSERVED SCALE DIFFERENCE	4 NO. OF COMPARI- SONS	5 INDEX DIFFERENCE	6 RECORDER SINGLE SET	7 SCALE FACTOR WEIGHTED AVERAGE	8 DATE OF ANALYSIS	9 SHEET NUMBER
4278	11082	-8.34	10				15JAN73	577
18207	11082	12.85	10					
18207	4278	21.19*	10*	20.79	0.98112			
18207	4278	21.05	10	20.79	0.98765			
			20			0.98438		
4278	11082	-8.32	10				24JAN73	578
18207	11082	12.93	10					
18207	4278	21.25*	10*	20.79	0.97835			
18207	4278	21.01	10	20.79	0.98953			
			20			0.98391		
4278	11082	-8.30	10				30JAN73	579
18207	11082	12.84	10					
18207	4278	21.14*	10*	20.79	0.98344			
18207	4278	21.01	10	20.79	0.98953			
			20			0.98648		

Table 3. Summary of Recorder Scale Factors

1	2	3	4	5	6
Period Number	Initial Date	Final Date	Parameters of Sensitivity Line		
			Initial Date Referred to 1 JAN 58 t_0 (days)	Initial Sensitivity S_0 (scale div./ppm)	Rate of Change of Sensitivity K (scale div./ppm-day)
1	1 JUN 64	18 SEP 64	2344	1.213389	0.529722×10^{-3}
2	23 SEP 64	26 SEP 64	2458	0.54055	0
3	30 SEP 64	22 OCT 64	2465	0.35708	0
4	23 OCT 64	25 OCT 64	2488	1.2303	0
5	29 OCT 64	30 OCT 64	2494	1.0285	0
6	31 OCT 64	23 APR 65	2496	1.116535	-0.420678×10^{-3}
7	24 APR 65	31 MAY 65	2671	1.054570	-1.64713×10^{-3}
8	1 JUN 65	24 JUN 65	2709	0.994573	3.40657×10^{-3}
9	25 JUN 65	31 DEC 65	2733	1.094492	-0.240892×10^{-3}
10	1 JAN 66	25 AUG 66	2923	1.067843	0.681039×10^{-3}
11	26 AUG 66	20 SEP 66	3160	0.881555	-1.64140×10^{-3}
12	21 SEP 66	31 MAY 67	3186	0.835031	0.860690×10^{-3}
13	1 JUN 67	30 SEP 67	3439	1.058752	-0.158993×10^{-3}
14	1 OCT 67	3 APR 68	3561	1.037316	0.933182×10^{-3}
15	4 APR 68	23 JUN 68	3747	1.211337	-1.31217×10^{-3}
16	28 JUN 68	6 JAN 69	3832	1.206641	0.376662×10^{-3}
17	7 JAN 69	13 DEC 69	4200	0.917379	$-0.0351140 \times 10^{-3}$
18	14 DEC 69	31 DEC 70	4366	0.892240	-0.15699×10^{-3}
19	1 JAN 71	30 MAY 71	4749	0.887259	-0.123951×10^{-3}
20	1 JUN 71	23 JUN 71	4900	1.109740	-1.18091×10^{-3}
21	24 JUN 71	11 JUL 71	4923	1.050180	-7.11415×10^{-3}
22	12 JUL 71	26 JUL 71	4941	1.028655	0
23	2 AUG 71	6 OCT 71	4962	1.031361	-0.215126×10^{-3}
24	12 OCT 71	5 JUN 72	5033	1.065298	$-0.0538535 \times 10^{-3}$
25	6 JUN 72	23 JUL 72	5271	1.017966	0.943889×10^{-3}
26	26 JUL 72	19 SEP 72	5321	1.072251	0.256371×10^{-3}
27	20 SEP 72	24 SEP 72	5377	0.685337	0
28	25 SEP 72	30 DEC 72	5382	1.105205	-0.325569×10^{-3}

(The Recorder Scale Factor is related to the sensitivity by the equation:

$$\text{RSF (ppm/scale div.)} = [(t - t_0)K + S_0]^{-1}$$

where t is measured in days referred to 1 JAN 58)

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons	Index	Wt'd Average No. of Comparisons	Index	Date of Analysis
2423	18208	9	309.55			4 JAN 71
	18208	versus	2423	9	309.55	
4278	7344	10	309.84			18 JAN 71
2423	7344	9	309.89			18 JAN 71
2423	7344	9	309.67			1 FEB 71
4278	7344	10	309.83			16 FEB 71
2423	7344	9	309.90			16 FEB 71
2423	7344	9	309.72			5 MAR 71
4278	7344	10	309.83			19 MAR 71
2423	7344	9	309.85			19 MAR 71
	7344	versus	4278	30	309.83	
	7344	versus	2423	45	309.81	
		wt'd average		75	309.82	
2423	7344	9	309.77			5 APR 71
3754	7344	10	309.77			16 APR 71
2423	7344	9	309.80			16 APR 71
2423	7344	9	309.90			30 APR 71
3754	7344	10	309.72			14 MAY 71
2423	7344	9	309.85			14 MAY 71
2423	7344	9	309.86			28 MAY 71
3754	7344	10	309.65			7 JUN 71
2423	7344	9	309.79			7 JUN 71
2423	7344	9	309.84			21 JUN 71

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons Index		Wt'd Average No. of Comparisons Index		Date of Analysis
3754	7344	10	310.06			2 JUL 71
2423	7344	9	309.76			2 JUL 71
3754	7344	10	309.48			9 JUL 71
2423	7344	9	309.80			9 JUL 71
2423	7344	8	309.66			23 JUL 71
	7344	versus	3754	50	309.74	
	7344	versus	2423	89	309.80	
		wt'd average		139	309.78	
3754	18208	10	309.82			6 AUG 71
4283	18208	9	309.45			6 AUG 71
4283	18208	9	309.57			20 AUG 71
3754	18208	10	309.61			31 AUG 71
4283	18208	9	309.52			31 AUG 71
4283	18208	10	309.64			10 SEP 71
3754	18208	10	309.60			23 SEP 71
4283	18208	9	309.49			23 SEP 71
4283	18208	9	309.56			5 OCT 71
3754	18208	10	309.53			18 OCT 71
4283	18208	10	309.54			18 OCT 71
3754	18208	10	309.65			27 OCT 71
4283	18208	10	309.57			27 OCT 71
3754	18208	10	309.58			1 NOV 71
4283	18208	10	309.58			1 NOV 71
3754	18208	10	309.55			5 NOV 71
4283	18208	10	309.53			5 NOV 71
3754	18208	10	309.61			9 NOV 71
4283	18208	10	309.65			9 NOV 71
3754	18208	10	309.58			17 NOV 71
4283	18208	10	309.56			17 NOV 71
3754	18208	10	309.52			23 NOV 71

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons	Index	Wt'd Average No. of Comparisons	Index	Date of Analysis
4283	18208	10	309.45			23 NOV 71
3754	18208	10	309.72			30 NOV 71
4283	18208	10	309.54			30 NOV 71
3754	18208	10	309.53			6 DEC 71
4283	18208	10	309.47			6 DEC 71
3754	18208	10	309.65			8 DEC 71
4283	18208	10	309.56			8 DEC 71
3754	18208	10	309.58			14 DEC 71
4283	18208	10	309.53			14 DEC 71
3754	18208	10	309.61			21 DEC 71
4283	18208	10	309.54			21 DEC 71
3754	18208	10	309.61			27 DEC 71
4283	18208	9	309.55			27 DEC 71
3754	18208	10	309.46			3 JAN 72
4283	18208	10	309.62			3 JAN 72
3754	18208	10	309.55			11 JAN 72
4283	18208	10	309.45			11 JAN 72
3754	18208	9	309.67			19 JAN 72
4283	18208	10	309.54			19 JAN 72
3754	18208	10	309.56			24 JAN 72
4283	18208	10	309.55			24 JAN 72
3754	18208	10	309.57			27 JAN 72
4283	18208	10	309.56			27 JAN 72
3754	18208	10	309.41			1 FEB 72
4283	18208	10	309.53			1 FEB 72
3754	18208	10	311.36			9 FEB 72
4283	18208	10	309.45			9 FEB 72
3754	18208	10	309.54			14 FEB 72
4283	18208	10	309.57			14 FEB 72

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons	Index	Wt'd Average No. of Comparisons	Index	Date of Analysis
3754	18208	10	309.64			17 FEB 72
4283	18208	10	309.54			17 FEB 72
3754	18208	10		*		23 FEB 72
4283	18208	10		*		23 FEB 72
3754	18208	10	309.53			28 FEB 72
4283	18208	10	309.54			28 FEB 72
3754	18208	10	309.76			7 MAR 72
4283	18208	10	309.54			7 MAR 72
3754	18208	10	309.56			10 MAR 72
4283	18208	10	309.50			10 MAR 72
3754	18208	10	309.58			15 MAR 72
4283	18208	10	309.49			15 MAR 72
3754	18208	10	309.55			20 MAR 72
4283	18208	10	309.55			20 MAR 72
3754	18208	10	309.46			4 APR 72
4283	18208	10	309.56			4 APR 72
	18208	versus	3754	309	309.64	
	18208	versus	4283	334	309.54	
		wt'd average		643	309.59	
3754	11082	10	330.41			10 APR 72
4283	11082	10	330.47			10 APR 72
3754	11082	10	330.38			18 APR 72
4283	11082	10	330.47			18 APR 72

*All calibration runs were rejected for this day, therefore unable to calculate RSF or indices.

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons	Index	Wt'd Average No. of Comparisons	Index	Date of Analysis
	11082	versus	3754	20	330.40	
	11082	versus	4283	20	330.47	
		wt'd average		40	330.44	
3754	11082	10	330.42			25 APR 72
11089	11082	10	330.50			25 APR 72
3754	11082	10	330.41			28 APR 72
11089	11082	10	330.53			28 APR 72
3754	11082	10	330.40			4 MAY 72
11089	11082	10	330.44			4 MAY 72
3754	11082	10	330.24			12 MAY 72
11089	11082	10	330.29			12 MAY 72
3754	11082	10	330.46			17 MAY 72
11089	11082	10	330.46			17 MAY 72
3754	11082	10	330.36			22 MAY 72
11089	11082	10	330.38			22 MAY 72
3754	11082	10	330.43			31 MAY 72
11089	11082	10	330.43			31 MAY 72
3754	11082	10	330.50			5 JUN 72
11089	11082	10	330.43			5 JUN 72
3754	11082	10	330.47			13 JUN 72
11089	11082	10	330.39			13 JUN 72
3754	11082	10	330.43			16 JUN 72
11089	11082	10	330.34			16 JUN 72
3754	11082	10	330.49			21 JUN 72
11089	11082	10	330.46			21 JUN 72
3754	11082	10	330.38			26 JUN 72
11089	11082	10	330.38			26 JUN 72
3754	11082	10	330.46			5 JUL 72

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	<u>Single Set</u> No. of Comparisons Index		<u>Wt'd Average</u> No. of Comparisons Index		Date of Analysis
11089	11082	10	330.35			5 JUL 72
3754	11082	10	330.39			10 JUL 72
11089	11082	10	330.38			10 JUL 72
	11082	versus	3754	140	330.42	
	11082	versus	11089	140	330.41	
		wt'd average		280	330.42	
11089	11082	10	330.36			13 JUL 72
2426	11082	10	330.40			13 JUL 72
11089	11082	9	330.82			31 JUL 72
2426	11082	8	330.38			31 JUL 72
11089	11082	10	330.73			3 AUG 72
2426	11082	8	330.58			3 AUG 72
11089	11082	10	330.34			11 AUG 72
2426	11082	9	330.40			11 AUG 72
11089	11082	10	330.49			21 AUG 72
2426	11082	10	330.53			21 AUG 72
11089	11082	9	330.48			25 AUG 72
2426	11082	10	330.39			25 AUG 72
11089	11082	10	330.49			31 AUG 72
2426	11082	10	330.40			31 AUG 72
11089	11082	10	330.48			6 SEP 72
2426	11082	10	330.55			6 SEP 72

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons Index		Wt'd Average No. of Comparisons Index		Date of Analysis
11089	11082	10	330.56			15 SEP 72
2426	11082	10	330.38			15 SEP 72
11089	11082	10	330.37			21 SEP 72
2426	11082	10	330.50			21 SEP 72
11089	11082	10	330.49			27 SEP 72
2426	11082	10	330.47			27 SEP 72
11089	11082	10	330.51			2 OCT 72
2426	11082	10	330.52			2 OCT 72
11089	11082	10	330.45			10 OCT 72
2426	11082	10	330.53			10 OCT 72
11089	11082	10	330.35			18 OCT 72
2426	11082	10	330.50			18 OCT 72
11089	11082	10	330.09			25 OCT 72
2426	11082	10	330.15			25 OCT 72
11089	11082	10	330.46			27 OCT 72
2426	11082	10	330.38			27 OCT 72
	11082	versus	2426	155	330.44	
	11082	versus	11089	158	330.46	
		wt'd average		313	330.45	
11089	11082	10	329.47			1 NOV 72
4278	11082	10	330.86			1 NOV 72
11089	11082	9	*			7 NOV 72
4278	11082	10	*			7 NOV 72
11089	11082	10	*			9 NOV 72

*All calibration runs were rejected for this day, therefore unable to calculate RSF or indices.

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT						
Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	Single Set No. of Comparisons Index		Wt'd Average No. of Comparisons Index		Date of Analysis
4278	11082	10	*			9 NOV 72
11089	11082	9	330.19			14 NOV 72
4278	11082	10	330.44			14 NOV 72
11089	11082	10	330.32			20 NOV 72
4278	11082	10	330.34			20 NOV 72
11089	11082	10	330.45			27 NOV 72
4278	11082	10	330.48			27 NOV 72
	11082	versus	4278	40	330.53	
	11082	versus	11089	39	330.11	
		wt'd average		79	330.32	
18207	11082	10	330.54			1 DEC 72
4278	11082	10	330.60			1 DEC 72
18207	11082	10	330.78			8 DEC 72
4278	11082	10	330.06			8 DEC 72
18207	11082	10	330.42			14 DEC 72
4278	11082	10	330.40			14 DEC 72
18207	11082	10	330.59			19 DEC 72
4278	11082	10	330.49			19 DEC 72
18207	11082	10	330.68			22 DEC 72
4278	11082	10	330.55			22 DEC 72
18207	11082	10	330.50			28 DEC 72
4278	11082	10	330.41			28 DEC 72
18207	11082	10	330.49			3 JAN 73
4278	11082	10	330.56			3 JAN 73
18207	11082	9	330.40			8 JAN 73
4278	11082	10	330.50			8 JAN 73
18207	11082	10	330.51			15 JAN 73

*All calibration runs were rejected for this day, therefore unable to calculate RSF or indices.

Table 4a. Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7
(Sub) Standard Tank No.	Compared Tank No.	<u>Single Set</u> No. of Comparisons Index		<u>Wt'd Average</u> No. of Comparisons Index		Date of Analysis
4278	11082	10	330.46			15 JAN 73
18207	11082	10	330.58			24 JAN 73
4278	11082	10	330.46			24 JAN 73
18207	11082	10	330.53			30 JAN 73
4278	11082	10	330.46			30 JAN 73
	11082	versus	4278	110	330.45	
	11082	versus	18207	109	330.55	
		wt'd average		219	330.50	

Table 4b. Average Index Values of Field Surveillance Tanks

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5
Date	Standard Tanks	Compared Tank	No. of Comparisons	Average Index
JAN 70	Tanks at SIO	18208	70	309.64
AUG 70	1540 and 10077	18208	28	309.73
SEP 70 - DEC 70	1540 and 4278	18208	103	309.64
JAN 71	2423	18208	9	309.55
MAY 71	Tanks at SIO	18208	60	309.63
DEC 70	Tanks at SIO	7344	180	309.84
JAN 71 - MAR 71	2423 and 4278	7344	75	309.82
APR 71 - JUL 71	2423 and 3754	7344	139	309.78
MAR 72	Tanks at SIO	7344	50	309.83
JUL 71	Tanks at SIO	18208	181	309.63
AUG 71 - APR 72	4283 and 3754	18208	633	309.59
JAN 73	Tanks at SIO	18208	80	309.57
FEB 72	Tanks at SIO	11082	50	330.49
APR 72	4278 and 3754	11082	40	330.44
APR 72 - JUL 72	11089 and 3754	11082	280	330.42
JUL 72 - OCT 72	11089 and 2426	11082	313	330.45
NOV 72	11089 and 4278	11082	79	330.32
DEC 72 - JAN 73	18207 and 4278	11082	219	330.50
	Still at Mauna Loa			

TABLE 5. SCRIPPS INDEX VALUES OF REFERENCE GASES

MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3				4				5				6				7				8				9				10				11				12			
		AT SCRIPPS PRIOR TO USE IN FIELD				AT SCRIPPS AFTER USE IN FIELD				WEIGHTED AVERAGE																															
TANK USAGE	TANK NO.	NO. OF COMPARISONS	INDEX	DATE OF LAST RUN	REF. GAS REPORT NO.	NO. OF COMPARISONS	INDEX	DATE OF LAST RERUN	REF. GAS REPORT NO.	NO. OF COMPARISONS	INDEX	NO. OF COMPARISONS	INDEX																												
IO	11083	104	314.26	8 MAR 63	6	51	314.23	4 MAY 66	10	155	314.25																														
HS	10077	159	347.11	25 JUN 63	6	52	347.11	27 OCT 66	10	211	347.11																														
II	2403	102	311.12	25 OCT 62	5	50	311.09	19 MAY 65	9	152	311.11																														
W	3756	24	313.64	7 FEB 63	6	10	313.97	17 SEP 64	8	34	313.73																														
W	3758	10	312.06	16 MAY 63	6	11	312.24	17 SEP 64	8	21	312.15																														
W	4285	10	312.94	21 MAY 63	6	10	312.93	17 SEP 64	8	20	312.94																														
W	3754	10	312.09	16 MAY 63	6	12	312.15	3 NOV 64	8	22	312.12																														
LS	2420	100	287.23	4 APR 63	6	51	286.16	8 JUL 66	10	151	286.87																														
W	4295	10	313.72	21 MAY 63	6	10	313.89	4 MAY 65	9	20	313.80																														
W	4296	10	310.60	21 MAY 63	6	10	310.98	3 NOV 64	8	20	310.79																														
W	3753	10	313.18	16 MAY 63	6	10	313.21	3 MAY 65	9	20	313.20																														
W	3759	10	313.46	16 MAY 63	6	10	313.63	3 MAY 65	9	20	313.54																														
W	2407	12	314.20	11 APR 63	6	10	314.33	3 MAY 65	9	22	314.26																														
W	4295	10	313.72	21 MAY 63	6	10	313.89	4 MAY 65	9	20	313.80																														
W	2425	11	313.64	11 APR 63	6	10	313.80	3 MAY 65	9	21	313.72																														
W	2419	10	314.69	16 MAY 63	6	10	314.57	3 MAY 65	9	20	314.63																														
W	11076	10	312.30	21 MAY 63	6	11	312.37	19 MAY 65	9	21	312.34																														
II	136	114	310.37	10 MAR 64	7	50	310.52	31 OCT 66	10	164	310.42																														
W	132	10	313.09	16 MAY 63	6	10	313.18	19 MAY 65	9	20	313.14																														
W	18219	11	313.49	26 MAR 63	6	10	313.52	6 AUG 65	9	21	313.50																														
W	6052	10	312.04	12 APR 63	6	10	312.10	17 NOV 65	9	20	312.07																														
HS	3751	122	342.06	7 MAY 65	9	101	342.16	12 JAN 67	11	223	342.10																														
W	2400	13	312.37	28 APR 65	9	11	312.55	17 NOV 65	9	24	312.45																														
W	4284	13	311.99	28 APR 65	9	10	311.96	24 FEB 66	10	23	311.98																														
W	4278	10	312.09	28 APR 65	9	10	312.10	24 FEB 66	10	20	312.10																														
W	7366	10	311.77	15 APR 63	6	10	311.99	24 FEB 66	10	20	311.88																														
W	4290	12	312.31	28 APR 65	9	10	312.53	24 FEB 66	10	22	312.41																														
W	11081	10	317.94	4 AUG 65	9	11	317.96	24 MAR 66	10	21	317.95																														
W	3755	10	317.36	4 AUG 65	9	10	317.56	24 MAR 66	10	20	317.46																														

TABLE 5. SCRIPPS INDEX VALUES OF REFERENCE GASES

MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9	10	11	12
		AT SCRIPPS PRIOR TO USE IN FIELD				AT SCRIPPS AFTER USE IN FIELD				WEIGHTED AVERAGE	
TANK USAGE	TANK NO.	NO. OF COMPARISONS	INDEX	DATE OF LAST RUN	REF. GAS REPORT NO.	NO. OF COMPARISONS	INDEX	DATE OF RERUN	REF. GAS REPORT NO.	NO. OF COMPARISONS	INDEX
IO	11085	63	316.74	16 DEC 65	9	56	316.78	9 APR 68	13	119	316.76
HS	1008	134	352.19	8 DEC 65	9	53	352.35	29 NOV 67	12	187	352.24
LS	6074	146	294.37	14 DEC 65	9	51	293.89	9 APR 68	13	197	294.25
W	11078	10	320.24	5 AUG 65	9	10	320.52	11 MAY 66	10	20	320.38
W	148	10	320.02	16 NOV 65	9	10	320.28	11 MAY 66	10	20	320.15
W	7364	12	321.61	16 NOV 65	9	10	321.82	29 SEP 66	10	22	321.71
W	18220	10	320.26	4 AUG 65	9	10	320.29	29 SEP 66	10	20	320.28
W	181	10	322.21	16 NOV 65	9	10	322.60	31 JAN 67	11	20	322.40
II	6078	53	310.68	4 MAY 66	10	50	310.63	9 APR 68	13	103	310.66
W	2421	21	322.29	11 MAY 66	10	10	322.37	31 JAN 67	11	31	322.31
W	11092	10	322.92	5 AUG 65	9	10	322.94	31 JAN 67	11	20	322.93
W	4277	20	322.61	11 MAY 66	10	11	322.83	31 JAN 67	11	31	322.69
W	7362	11	317.78	16 NOV 65	9	10	318.32	31 JAN 67	11	21	318.04
W	11080	20	311.08	20 OCT 66	10	10	311.16	31 JAN 67	11	30	311.11
W	4276	21	311.29	20 OCT 66	10	10	311.34	28 MAR 67	11	31	311.30
W	18220	11	322.13	6 DEC 66	10	11	322.40	28 MAR 67	11	22	322.26
W	4278	10	323.03	6 DEC 66	10	10	323.30	23 AUG 67	12	20	323.16
W	11078	10	325.36	28 DEC 66	11	10	325.32	22 AUG 67	12	20	325.34
W	7364	11	324.67	21 DEC 66	11	10	324.68	22 AUG 67	12	21	324.67
W	3759	10	318.83	9 JAN 67	11	11	318.95	22 AUG 67	12	21	318.89
W	11083	10	323.53	28 DEC 66	11	11	323.75	22 AUG 67	12	21	323.65
HS	3751	223	342.10	12 JAN 67	11	50	342.06	9 APR 68	13	273	342.10
W	181	10	321.30	10 MAY 67	12	11	321.59	17 JAN 68	13	21	321.45
W	11080	10	320.26	10 MAY 67	12	13	320.31	17 JAN 68	13	23	320.29
W	11092	11	320.28	10 MAY 67	12	11	320.33	17 JAN 68	13	22	320.30
W	7362	10	321.06	10 MAY 67	12	10	321.13	17 JAN 68	13	20	321.10
W	4277	10	320.50	7 APR 67	11	11	320.73	17 JAN 68	13	21	320.62
W	2421	11	315.22	10 MAY 67	12	11	315.36	17 JAN 68	13	22	315.29
W	2426	10	320.43	20 OCT 67	12	10	320.50	19 MAR 68	13	20	320.46

TABLE 5. SCRIPPS INDEX VALUES OF REFERENCE GASES

MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3 4 5 6				7 8 9 10				11 12	
		AT SCRIPPS PRIOR TO USE IN FIELD				AT SCRIPPS AFTER USE IN FIELD				WEIGHTED AVERAGE	
TANK USAGE	TANK NO.	NO. OF COMPARI- SONS	INDEX	DATE OF LAST RUN	REF. GAS REPORT NO.	NO. OF COMPARI- SONS	INDEX	DATE OF LAST RERUN	REF. GAS REPORT NO.	NO. OF COMPARI- SONS	INDEX
W	3757	10	321.42	19 OCT 67	12	10	321.47	19 MAR 68	13	20	321.44
W	4290	11	318.65	19 OCT 67	12	11	318.60	11 SEP 68	15	22	318.62
IO	3756	147	314.16	20 NOV 67	12	57	314.24	4 JUN 69	15	204	314.18
HS	10077	72	344.39	22 NOV 67	12	52	344.21	18 NOV 69	16	124	344.31
LS	2427	101	289.04	16 NOV 70	18	31	289.51	29 JUN 71	18	132	289.15
II	7344	79	309.88	21 NOV 67	12	52	309.85	3 SEP 69	16	131	309.87
IO	7344	79	309.88	21 NOV 67	12	52	309.85	3 SEP 69	16	131	309.87
II	3756	147	314.16	20 NOV 67	12	57	314.24	4 JUN 69	15	204	314.18
W	3759	10	319.29	20 OCT 67	12	10	319.26	11 SEP 68	15	20	319.28
W	3752	10	318.81	19 OCT 67	12	10	318.78	11 SEP 68	15	20	318.80
W	11089	11	319.77	10 JAN 68	13	11	320.08	11 SEP 68	15	22	319.92
W	11083	10	323.54	15 MAR 68	13	10	323.67	11 SEP 68	15	20	323.60
W	4275	11	324.37	15 MAR 68	13	10	324.53	28 JAN 69	15	21	324.45
W	11081	10	322.82	15 MAR 68	13	10	323.06	27 JAN 69	15	20	322.94
W	2405	10	321.80	15 MAR 68	13	10	321.79	28 JAN 69	15	20	321.80
W	4295	10	321.91	15 MAR 68	13	10	321.92	28 JAN 69	15	20	321.92
W	2419	20	316.61	18 JUL 68	14	10	316.79	28 JAN 69	15	30	316.67
W	4297	10	322.57	3 SEP 68	15	10	322.73	27 JAN 69	15	20	322.65
W	2423	9	319.72	3 SEP 68	15	13	319.91	7 APR 69	15	22	319.83
II	1540	85	314.04	25 JUL 68	14	51	314.25	9 MAR 71	18	136	314.12
W	11092	10	321.79	3 SEP 68	15	10	321.99	7 APR 69	15	20	321.89
W	4283	10	322.69	3 SEP 68	15	10	322.84	29 APR 69	15	20	322.76
W	181	13	322.95	3 SEP 68	15	10	323.25	9 MAY 69	15	23	323.08
W	2407	10	323.28	15 MAR 68	13	11	323.34	17 JUL 69	16	21	323.31
W	1008	9	324.74	3 SEP 68	15	10	324.88	25 JUL 69	16	19	324.81
W	6060	21	316.63	18 JUL 68	14	10	316.53	22 AUG 69	16	31	316.60
IO	18208	70	309.64	10 APR 69	15	51	309.60	6 APR 70	17	121	309.62
W	3759	11	321.74	29 APR 69	15	10	321.63	5 DEC 69	16	21	321.69
W	4290	10	321.90	29 APR 69	15	10	322.00	5 DEC 69	16	20	321.95

TABLE 5. SCRIPPS INDEX VALUES OF REFERENCE GASES

MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3				4				5				6				7				8				9				10				11				12			
		AT SCRIPPS PRIOR TO USE				IN FIELD				AT SCRIPPS AFTER USE				IN FIELD				WEIGHTED AVERAGE																							
TANK USAGE	TANK NO.	NO. OF COMPARISONS	INDEX	DATE OF LAST RUN	REF. GAS NO.	NO. OF COMPARISONS	INDEX	DATE OF LAST RERUN	REF. GAS NO.	NO. OF COMPARISONS	INDEX	DATE OF LAST RERUN	REF. GAS NO.	NO. OF COMPARISONS	INDEX																										
HS	4278	72	338.73	13 JUN 69	15	61	338.63	6 JUL 70	17	133	338.68																														
W	2418	10	319.64	29 APR 69	15	10	319.55	3 FEB 70	17	20	319.60																														
W	4292	20	324.24	14 APR 69	15	10	324.23	3 FEB 70	17	30	324.24																														
W	4277	12	320.19	29 APR 69	15	10	320.16	2 MAR 70	17	22	320.18																														
W	11080	20	325.40	14 APR 69	15	10	325.37	17 APR 70	17	30	325.39																														
IO	7344	131	309.87	3 SEP 69	16	49	309.77	3 DEC 70	17	180	309.84																														
W	3758	20	323.06	6 NOV 69	16	10	322.93	17 APR 70	17	30	323.02																														
HS	10077	124	344.31	18 NOV 69	16	58	344.11	18 JAN 71	18	182	344.25																														
W	11089	20	323.14	19 JAN 70	16	10	323.27	18 MAY 70	17	30	323.18																														
W	11083	20	323.46	19 DEC 69	16	10	323.51	20 AUG 70	17	30	323.47																														
W	2426	20	324.25	19 DEC 69	16	10	324.41	20 AUG 70	17	30	324.30																														
W	3752	10	320.23	29 APR 69	15	10	320.19	10 SEP 70	17	20	320.21																														
W	6081	21	321.94	23 DEC 69	16	10	321.86	4 DEC 70	17	31	321.91																														
S	18208	121	309.62	30 JUN 70	17	60	309.63	7 JUL 71	18	181	309.63																														
W	6060	19	321.80	19 JAN 70	16	10	321.90	4 DEC 70	17	29	321.84																														
HS	4278	133	338.68	6 JUL 70	17	72	338.61	15 SEP 71	19	205	338.65																														
W	3756	20	322.74	19 JAN 70	16	10	322.82	13 JAN 71	18	30	322.77																														
W	4285	16	324.03	19 JAN 70	16	10	324.26	13 JAN 71	18	26	324.12																														
W	136	20	324.52	19 JAN 70	16	10	324.72	1 FEB 71	18	30	324.59																														
W	11076	21	319.85	19 JAN 70	17	10	320.03	1 MAR 71	18	31	319.91																														
II	2423	81	312.85	3 DEC 70	17	50	312.93	2 MAR 71	19	131	312.88																														
S	7344	180	309.84	3 DEC 70	17	50	309.83	2 MAR 72	19	230	309.84																														
W	4276	29	326.50	18 MAY 70	17	10	326.76	19 MAY 71	18	39	326.57																														
W	7362	19	322.75	22 JAN 71	18	11	323.03	8 JUN 71	18	30	322.84																														
SS	4271	81	285.12	29 JAN 71	18	49	285.17	15 AUG 72	20	130	285.14																														
W	1008	19	322.09	22 JAN 71	18	10	322.28	8 JUN 71	18	29	322.15																														
HS	3754	110	340.71	4 FEB 71	18	82	340.92	11 JAN 73	21	192	340.80																														
W	11082	20	322.88	26 JAN 71	18	14	322.95	2 JUL 71	18	34	322.91																														
W	3759	27	318.97	16 MAR 71	18	10	319.03	2 JUL 71	18	37	318.99																														

TABLE 5. SCRIPPS INDEX VALUES OF REFERENCE GASES

MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3 4 5 6				7 8 9 10				11 12	
		AT SCRIPPS PRIOR TO USE IN FIELD				AT SCRIPPS AFTER USE IN FIELD				WEIGHTED AVERAGE	
TANK USAGE	TANK NO.	NO. OF COMPARI- SONS	INDEX	DATE OF LAST RUN	REF. GAS REPORT NO.	NO. OF COMPARI- SONS	INDEX	DATE OF LAST RERUN	REF. GAS REPORT NO.	NO. OF COMPARI- SONS	INDEX
W	4296	23	318.39	16 MAR 71	18	10	318.84	11 NOV 71	19	33	318.52
W	4290	22	319.47	16 MAR 71	18	10	319.40	11 NOV 71	19	32	319.45
W	2419	19	319.33	1 JUL 71	18	10	319.41	14 DEC 71	19	29	319.36
I	4283	60	311.61	9 JUL 71	18	59	311.63	22 AUG 72	20	119	311.62
S	18208	181	309.63	7 JUL 71	18	80	309.57	11 JAN 73	21	261	309.61
W	4277	22	318.74	9 JUL 71	18	10	318.72	14 DEC 71	19	32	318.73
W	2418	21	319.56	24 AUG 71	19	10	319.53	14 DEC 71	19	31	319.55
W	1008	20	321.54	14 SEP 71	19	10	321.74	29 SEP 72	21	30	321.54
W	181	24	320.98	14 SEP 71	19	10	320.93	17 JAN 72	19	34	320.96
W	11081	21	320.84	14 SEP 71	19	10	320.78	17 JAN 72	19	31	320.82
W	181	24	320.98	14 SEP 71	19	10	320.93	17 JAN 72	19	34	320.96
W	7362	20	321.68	14 SEP 71	19	10	321.84	24 APR 72	20	30	321.74
W	7355	20	322.41	14 SEP 71	19	9	322.65	14 APR 72	20	29	322.48
W	4276	20	322.16	14 SEP 71	19	10	322.11	14 APR 72	20	30	322.14
W	2421	21	321.96	15 DEC 71	19	10	321.92	24 APR 72	20	31	321.95
W	2407	20	322.17	15 DEC 71	19	10	322.17	26 JUL 72	20	30	322.17
W	2419	23	320.92	29 FEB 72	19	11	321.14	26 JUL 72	20	34	320.99
S	11082	50	330.49	22 FEB 72	19	STILL AT MAUNA LOA				50	330.49
S	18208	181	309.63	7 JUL 71	18	80	309.57	11 JAN 73	21	261	309.61
I	11089	91	319.00	10 MAR 72	20	33	318.97	7 FEB 73	22	124	318.99
W	4286	23	321.38	29 FEB 72	19	21	321.67	1 AUG 72	20	44	321.52
W	1008	20	321.44	29 FEB 72	19	10	321.74	29 SEP 72	21	30	321.54
W	4290	20	321.44	29 FEB 72	19	12	321.55	29 SEP 72	21	32	321.48
W	1008	20	321.44	29 FEB 72	19	10	321.74	29 SEP 72	21	30	321.54
W	4290	20	321.44	29 FEB 72	19	12	321.55	29 SEP 72	21	32	321.48
HS	2426	58	338.37	10 MAR 72	20	32	338.34	7 FEB 73	22	90	338.36
W	11076	20	320.11	28 FEB 72	19	9	320.26	29 SEP 72	21	29	320.16
W	4277	20	319.93	29 FEB 72	19	10	320.06	9 NOV 72	21	30	319.97
SS	6052	48	336.26	2 MAR 72	19	STILL AT MAUNA LOA				48	336.26

TABLE 5. SCRIPPS INDEX VALUES OF REFERENCE GASES

MAUNA LOA CARBON DIOXIDE PROJECT

1	2	3	4	5	6	7	8	9	10	11	12
		AT SCRIPPS PRIOR TO USE IN FIELD			AT SCRIPPS AFTER USE IN FIELD			WEIGHTED AVERAGE			
TANK USAGE	TANK NO.	NO. OF COMPARI- SONS	INDEX	DATE OF LAST RUN	REF. GAS REPORT NO.	NO. OF COMPARI- SONS	INDEX	DATE OF LAST RERUN	REF. GAS REPORT NO.	NO. OF COMPARI- SONS	INDEX
W	2418	24	321.11	29 FEB 72	19	21	321.19	29 JAN 73	22	45	321.15
W	4296	20	320.22	28 FEB 72	19	22	320.46	29 JAN 73	22	42	320.35
W	11081	18	322.26	19 JUL 72	20	11	322.42	7 FEB 73	22	29	322.32
HS	4278	256	338.65	25 AUG 72	20		STILL AT MAUNA LOA			256	338.65
W	4295	20	320.93	19 JUL 72	20	12	320.96	5 FEB 73	22	32	320.94
I	18207	83	317.86	25 AUG 72	20		STILL AT MAUNA LOA			83	317.86
W	4276	21	320.21	18 JUL 72	20	9	320.23	6 FEB 73	22	30	320.22
W	10074	19	320.60	19 JUL 72	20		STILL AT MAUNA LOA			19	320.60

TABLE 6. Index Values of Working Reference Gases

Col. 1	2	3	4	5	6	7	8
Date of Analysis	(Sub) Standard Tank No.	Compared Tank No.	Single Set		Wt'd Average		Compared Tank no.
			No. of Comparisons	Index	No. of Comparisons	Index	
18JAN71	2423	4276	10	326.31			
25JAN71	2423	4276	10	326.63			
1FEB71	2423	4276	10	326.74			
8FEB71	2423	4276	10	326.64			
16FEB71	2423	4276	10	326.74	50	326.61	4276
16FEB71	2423	7362	10	322.72			
26FEB71	2423	7362	10	322.71			
5MAR71	2423	7362	10	322.66			
12MAR71	2423	7362	10	322.74			
19MAR71	2423	7362	10	322.79	50	322.72	7362
19MAR71	2423	1008	10	321.82			
29MAR71	2423	1008	10	322.09			
5APR71	2423	1008	10	322.09			
12APR71	2423	1008	10	322.31			
16APR71	2423	1008	10	322.33	50	322.13	1008
16APR71	2423	11082	10	322.88			
23APR71	2423	11082	10	322.76			
30APR71	2423	11082	10	322.98			
7MAY71	2423	11082	10	322.87			
14MAY71	2423	11082	10	323.12	50	322.92	11082
14MAY71	2423	3759	10	318.92			
21MAY71	2423	3759	10	318.88			
28MAY71	2423	3759	10	319.07			
1JUN71	2423	3759	10	318.82			
7JUN71	2423	3759	10	318.87	50	318.91	3759

TABLE 6. Index Values of Working Reference Gases

Col. 1	2	3	4	5	6	7	8
Date of Analysis	(Sub) Standard Tank No.	Compared Tank No.	Single Set		Wt'd Average		Compared Tank No.
			No. of Comparisons	Index	No. of Comparisons	Index	
7JUN71	2423	4296	10	318.25			
14JUN71	2423	4296	10	318.34			
21JUN71	2423	4296	10	318.53			
28JUN71	2423	4296	10	318.45			
2JUL71	2423	4296	10	318.55	50	318.42	4296
2JUL71	2423	4290	10	319.31	10	319.31	4290
9JUL71	2423	2419	10	319.16			
16JUL71	2423	2419	10	319.44			
23JUL71	2423	2419	10	319.54			
2AUG71	2423	2419	10	319.11			
6AUG71	4283	2419	10	319.33	50	319.32	2419
6AUG71	4283	4277	10	318.46			
13AUG71	4283	4277	10	318.72			
20AUG71	4283	4277	10	318.85			
27AUG71	4283	4277	10	318.82			
31AUG71	4283	4277	10	318.86	50	318.74	4277
31AUG71	4283	2418	10	319.16			
3SEP71	4283	2418	10	319.65			
10SEP71	4283	2418	10	319.46			
14SEP71	4283	2418	10	319.36			
23SEP71	4283	2418	10	319.45	50	319.42	2418
23SEP71	4283	1008	10	321.09			
29SEP71	4283	1008	10	321.36			
5OCT71	4283	1008	10	321.46	30	321.30	1008
18OCT71	4283	181	10	320.71			
27OCT71	4283	181	10	321.03			

TABLE 6. Index Values of Working Reference Gases

Col. 1	2	3	4	5	6	7	8
Date of Analysis	(Sub) Standard Tank No.	Compared Tank No.	Single Set		Wt'd Average		Compared Tank No.
			No. of Comparisons	Index	No. of Comparisons	Index	
1NOV71	4283	181	10	320.85			
5NOV71	4283	181	10	320.96			
9NOV71	4283	181	10	320.93	50	320.90	181
9NOV71	4283	11081	10	320.67			
17NOV71	4283	11081	10	320.81			
23NOV71	4283	11081	10	320.75			
30NOV71	4283	11081	10	320.81			
6DEC71	4283	11081	10	321.62	50	320.93	11081
6DEC71	4283	181	10	320.97			
8DEC71	4283	181	10	321.02	20	321.00	181
8DEC71	4283	7362	10	321.47			
14DEC71	4283	7362	10	321.58			
21DEC71	4283	7362	10	321.73			
27DEC71	4283	7362	10	321.52			
3JAN72	4283	7362	10	321.65	50	321.59	7362
3JAN72	4283	7355	10	322.61			
11JAN72	4283	7355	10	322.76			
19JAN72	4283	7355	10	322.76			
24JAN72	4283	7355	10	322.71			
27JAN72	4283	7355	10	322.62	50	322.69	7355
27JAN72	4283	4276	10	322.03			
1FEB72	4283	4276	10	321.95			
9FEB72	4283	4276	10	321.76			
14FEB72	4283	4276	10	322.12			
17FEB72	4283	4276	10	322.09	50	321.99	4276

TABLE 6. Index Values of Working Reference Gases

Col. 1	2	3	4	5	6	7	8
Date of Analysis	(Sub) Standard Tank No.	Compared Tank No.	Single Set		Wt'd Average		Compared Tank No.
			No. of Comparisons	Index	No. of Comparisons	Index	
17FEB72	4283	2421	10	321.83			
23FEB72	4283	2421	10	321.83 *			
28FEB72	4283	2421	10	321.83			
7MAR72	4283	2421	10	321.73			
10MAR72	4283	2421	10	321.75	40	321.78	2421
10MAR72	4283	2407	10	321.95			
15MAR72	4283	2407	10	321.92			
20MAR72	4283	2407	10	321.99			
4APR72	4283	2407	10	322.13	40	322.00	2407
4APR72	4283	2419	10	320.88			
10APR72	4283	2419	10	321.02			
18APR72	4283	2419	10	320.83			
25APR72	11089	2419	10	321.07			
28APR72	11089	2419	10	321.07	50	320.97	2419
28APR72	11089	4286	10	321.45			
4MAY72	11089	4286	10	321.48			
12MAY72	11089	4286	10	321.44			
17MAY72	11089	4286	10	321.49			
22MAY72	11089	4286	10	321.49	50	321.47	4286
22MAY72	11089	1008	10	321.55			
31MAY72	11089	1008	10	321.53			
5JUN72	11089	1008	10	321.54			
13JUN72	11089	1008	10	321.58			
16JUN72	11089	1008	10	321.60	50	321.56	1008
16JUN72	11089	4290	10	321.49			
21JUN72	11089	4290	10	321.51	20	321.50	4290

*All calibration runs were rejected for this day, therefore unable to calculate RSF or indices.

TABLE 6. Index Values of Working Reference Gases

Col. 1	2	3	4	5	6	7	8
Date of Analysis	(Sub) Standard Tank No.	Compared Tank No.	Single Set		Wt'd Average		Compared Tank No.
			No. of Comparisons	Index	No. of Comparisons	Index	
21JUN72	11089	1008	10	321.52	10	321.52	1008
26JUN72	11089	4290	10	321.52			
5JUL72	11089	4290	10	321.55			
10JUL72	11089	4290	10	321.55			
13JUL72	11089	4290	10	321.57	40	321.55	4290
13JUL72	11089	11076	10	320.14			
31JUL72	11089	11076	10	320.21			
3AUG72	11089	11076	10	320.30			
11AUG72	11089	11076	10	320.28	40	320.23	11076
11AUG72	11089	4277	10	319.91			
21AUG72	11089	4277	10	320.24			
25AUG72	11089	4277	9	320.19			
31AUG72	11089	4277	10	320.10			
6SEP72	11089	4277	10	320.20	49	320.13	4277
6SEP72	11089	2418	10	321.25			
15SEP72	11089	2418	10	321.16			
21SEP72	11089	2418	10	321.32			
27SEP72	11089	2418	10	321.10			
2OCT72	11089	2418	10	321.37	50	321.24	2418
2OCT72	11089	4296	10	320.27			
10OCT72	11089	4296	10	320.37			
18OCT72	11089	4296	10	320.44			
25OCT72	11089	4296	10	320.32			
27OCT72	11089	4296	10	320.26	50	320.33	4296
27OCT72	11089	11081	10	322.17			
1NOV72	11089	11081	10	322.17			

TABLE 6. Index Values of Working Reference Gases

Col. 1	2	3	4	5	6	7	8
Date of Analysis	(Sub) Standard Tank No.	Compared Tank No.	Single Set		Wt'd Average		Compared Tank No.
			No. of Comparisons	Index	No. of Comparisons	Index	
7NOV72	11089	11081	10	*			
9NOV72	11089	11081	10	*	20	322.17	11081
9NOV72	11089	4295	10				
14NOV72	11089	4295	10	321.04			
20NOV72	11089	4295	10	321.01			
27NOV72	11089	4295	10	320.99			
1DEC72	18207	4295	10	321.03	50	321.06	4295
1DEC72	18207	4276	10	320.17			
8DEC72	18207	4276	10	320.40			
14DEC72	18207	4276	10	320.20			
19DEC72	18207	4276	10	320.25			
22DEC72	18207	4276	10	320.33	50	320.27	4276
22DEC72	18207	10074	10	320.46			
28DEC72	18207	10074	10	320.44			
3JAN72	18207	10074	10	320.53			
8JAN72	18207	10074	10	320.40			
15JAN72	18207	10074	10	320.53	50	320.47	10074

*All calibration runs were rejected for this day, therefore unable to calculate RSF or indices.

TABLE 7. COMBINED SCRIPPS AND MAUNA LOA INDEX VALUES OF WORKING REFERENCE GASES

1	2	3	4	5	6	7	8	9
At Scripps Pre- and Postfield Combined			At Mauna Loa		Index Difference (MLO - SIO)	MLO and SIO Combined		Date Use Began
Tank No.	No. of Compari- sons	Wt'd Average Index	No. of Compari- sons	Wt'd Average Index		No. of Compari- sons	Wt'd Average Index	
I Tank 2423 in use								
11076	31	319.91	50	319.91	0.00	81	319.91	21 DEC 70
4276	39	326.57	50	326.61	0.04	89	326.59	18 JAN 71
7362	30	322.84	50	322.72	-0.12	80	322.76	16 FEB 71
1008	29	322.15	50	322.13	-0.02	79	322.14	19 MAR 71
11082	34	322.91	50	322.92	0.01	84	322.92	16 APR 71
3759	37	318.99	50	318.91	-0.08	87	318.94	14 MAY 71
4296	33	318.52	50	318.42	-0.10	83	318.46	7 JUN 71
2419	29	319.36	50	319.32	-0.04	79	319.33	9 JUL 71
I Tank 4283 in use								
4277	32	318.73	50	318.74	0.01	82	318.74	6 AUG 71
2418	31	319.55	50	319.42	-0.13	81	319.47	31 AUG 71
1008	30	321.54	30	321.30	-0.24	60	321.42	23 SEP 71
181	34	320.96	50	320.90	-0.06	84	320.92	18 OCT 71
11081	31	320.82	50	320.93	0.11	81	320.89	9 NOV 71
181	34	320.96	20	321.00	0.04	54	320.97	6 DEC 71
7362	30	321.74	50	321.59	-0.15	80	321.65	8 DEC 71
7355	29	322.48	50	322.69	0.21	79	322.61	3 JAN 72
4276	30	322.14	50	321.99	-0.15	80	322.05	27 JAN 72
2421	31	321.95	40	321.78	-0.17	81	321.85	17 FEB 72
2407	30	322.17	40	322.00	-0.17	70	322.07	10 MAR 72
2419	34	320.99	50	320.97	-0.02	84	320.98	4 APR 72
I Tank 11089 in use								
4286	44	321.52	50	321.47	-0.05	94	321.49	28 APR 72
1008	30	321.54	50	321.56	0.02	80	321.55	22 MAY 72
4290	32	321.48	20	321.50	0.02	52	321.49	16 JUN 72
1008	30	321.54	10	321.52	-0.02	40	321.54	21 JUN 72

TABLE 7. COMBINED SCRIPPS AND MAUNA LOA INDEX VALUES OF WORKING REFERENCE GASES

1	2	3	4	5	6	7	8	9
Tank No.	At Scripps Pre- and Postfield Combined		At Mauna Loa		Index Difference (MLO - SIO)	MLO and SIO Combined		Date Use Began
	No. of Compari- sons	Wt'd Average Index	No. of Compari- sons	Wt'd Average Index		No. of Compari- sons	Wt'd Average Index	
4290	32	321.48	40	321.55	0.07	72	321.52	26 JUN 72
11076	29	320.16	40	320.23	0.07	69	320.20	13 JUL 72
4277	30	319.97	49	320.13	0.16	79	320.07	11 AUG 72
2418	45	321.15	50	321.24	0.09	95	321.20	6 SEP 72
4296	42	320.35	50	320.33	-0.02	92	320.34	2 OCT 72
11081	29	322.32	20	322.17	-0.15	69	322.23	27 OCT 72
4295	32	320.94	50	321.06	0.12	82	321.01	9 NOV 72
I Tank 18207 in use								
4276	30	320.22	50	320.28	0.06	80	320.26	1 DEC 72
10074	19	320.60	50	320.47	-0.13	69	320.51	22 DEC 72

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	319.90 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
1 1 71	11076	319.90	1.12707			323.48	91	0	0
1 2 71	11076	319.90	1.12722	0000-0400,	1715-2400	322.40	94	321.84	43
1 3 71	11076	319.90	1.12738	0000-0900		322.86	88	322.30	36
1 4 71	11076	319.90	1.12754	0245-0800		322.37	64	322.47	21
1 5 71	11076	319.90	1.12770	0845-2400		322.42	96	322.52	61
1 6 71	11076	319.90	1.12785	0000-2400		323.10	96	323.10	96
1 7 71	11076	319.90	1.12801	0000-2400		323.13	96	323.13	96
1 8 71	11076	319.90	1.12817	0000-2400		322.75	96	322.75	96
1 9 71	11076	319.90	1.12833	0000-2400		322.07	96	322.07	96
1 10 71	11076	319.90	1.12849	0000-0800		322.19	75	321.76	32
1 11 71	11076	319.90	1.12864	0000-0730		321.79	81	321.80	30
1 12 71	11076	319.90	1.12880	1515-2400		322.31	96	321.68	35
1 13 71	11076	319.90	1.12896	0000-0830		322.43	96	321.71	34
1 14 71	11076	319.90	1.12912	1715-2400		322.99	96	322.37	27
1 15 71	11076	319.90	1.12928	1145-2400		322.64	94	322.81	49
1 16 71	11076	319.90	1.12943	0000-2400		322.50	96	322.50	96
1 17 71	11076	319.90	1.12959	0000-0930,	1715-2400	323.17	96	322.45	65
1 18 71	11076	319.90	1.12975	0000-0800					
1 18 71	4276	326.59	1.12975	1945-2400		322.39	71	322.23	49
1 19 71	4276	326.59	1.12991	0000-1030,	1615-2400	322.51	96	322.25	73
1 20 71	4276	326.59	1.13007	0000-1100,	2015-2400	322.72	96	322.87	59
1 21 71	4276	326.59	1.13022	0000-1130		322.98	96	323.42	46
1 22 71	4276	326.59	1.13038			323.42	92	0	0
1 23 71	4276	326.59	1.13054	0000-0900		323.07	92	322.89	36
1 24 71	4276	326.59	1.13070	0045-0830		323.02	91	322.97	31
1 25 71	4276	326.59	1.13086	0000-0300,	1915-2400	323.56	78	322.91	29
1 26 71	4276	326.59	1.13102	0000-2400		323.24	96	323.24	96
1 27 71	4276	326.59	1.13118	0000-0900,	1545-2300	323.12	86	323.01	65
1 28 71	4276	326.59	1.13133	1215-2400		322.45	77	322.29	46

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	326.59 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
1 29 71	4276	326.59	1.13149	1515-2400		323.43	96	323.37	35
1 30 71	4276	326.59	1.13165	0000-0930		323.78	96	323.45	38
1 31 71	4276	326.59	1.13181	0515-1200		323.84	96	323.30	27
MONTHLY AVERAGES						322.84 (31 DAYS),		322.60 (29 DAYS)	
2 1 71	4276	326.59	1.13197	0000-2400		322.83	75	322.83	75
2 2 71	4276	326.59	1.13213	0000-2400		322.88	96	322.88	96
2 3 71	4276	326.59	1.13229	0000-0600		323.12	92	322.76	24
2 4 71	4276	326.59	1.13245	1645-2400		323.33	91	322.79	27
2 5 71	4276	326.59	1.13260	0000-0800, 1815-2400		323.33	91	323.10	53
2 6 71	4276	326.59	1.13276	0000-0830		323.08	91	323.37	34
2 7 71	4276	326.59	1.13292	0115-0800, 2115-2400		322.90	76	322.80	38
2 8 71	4276	326.59	1.13308	0000-0900		322.79	77	322.69	36
2 9 71	4276	326.59	1.13324	0000-0800		322.93	91	322.73	32
2 10 71	4276	326.59	1.13340	0000-0800		322.79	92	322.62	32
2 11 71	4276	326.59	1.13356	0000-0800, 1815-2400		322.84	93	322.37	54
2 12 71	4276	326.59	1.13372	0000-0800		322.73	89	322.62	31
2 13 71	4276	326.59	1.13388	1515-2400		323.14	94	323.31	33
2 14 71	4276	326.59	1.13404	0000-1000, 1815-2400		323.15	94	322.96	61
2 15 71	4276	326.59	1.13420	0000-0800, 2015-2400		322.79	95	322.77	47
2 16 71	4276	326.59	1.13436	0000-1000					
2 16 71	7362	322.77	1.13436			322.96	66	323.17	38
2 17 71	7362	322.77	1.13452	0000-2400		323.15	96	323.15	96
2 18 71	7362	322.77	1.13468	0000-1000, 1615-2400		323.13	92	323.08	67
2 19 71	7362	322.77	1.13483	0315-0900, 1845-2400		323.54	91	323.27	42
2 20 71	7362	322.77	1.13499	0000-0800, 1515-2400		322.77	96	322.90	67
2 21 71	7362	322.77	1.13515	0000-1130		323.50	96	323.23	44
2 22 71	7362	322.77	1.13531	1745-2400		323.51	93	323.60	25

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	322.77 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
2 23 71	7362	322.77	1.13547	0000-0900		323.55	96	323.17	36
2 24 71	7362	322.77	1.13563	0000-0730		323.58	96	323.23	30
2 25 71	7362	322.77	1.13579	0000-0830		323.80	96	323.51	34
2 26 71	7362	322.77	1.13595	1415-2400		323.44	78	323.33	39
2 27 71	7362	322.77	1.13611	0000-0800		324.09	92	323.73	32
2 28 71	7362	322.77	1.13627	1715-2400		324.46	93	323.45	26
MONTHLY AVERAGES						323.22 (28 DAYS)		323.05 (28 DAYS)	
3 1 71	7362	322.77	1.13643	0000-0530, 1515-2000		324.24	82	323.68	39
3 2 71	7362	322.77	1.13659	1415-2100		324.56	93	323.18	26
3 3 71	7362	322.77	1.13675			323.87	92	0	0
3 4 71	7362	322.77	1.13691	1315-2000		324.08	91	324.30	25
3 5 71	7362	322.77	1.13707	0515-0900, 1915-2400		323.75	73	323.50	34
3 6 71	7362	322.77	1.13723	0215-1500		323.15	90	323.17	51
3 7 71	7362	322.77	1.13739	0315-1000		323.84	90	323.62	27
3 8 71	7362	322.77	1.13756	0000-1030, 1645-2400		323.79	93	323.36	69
3 9 71	7362	322.77	1.13772	0000-0800		323.43	93	323.28	32
3 10 71	7362	322.77	1.13788			324.08	93	0	0
3 11 71	7362	322.77	1.13804	0000-0800		323.67	94	323.71	32
3 12 71	7362	322.77	1.13820	0000-2400		323.92	81	323.92	81
3 13 71	7362	322.77	1.13836	0000-1000, 1515-2400		323.96	94	323.70	75
3 14 71	7362	322.77	1.13852	0000-0400, 1915-2400		323.30	90	323.24	31
3 15 71	7362	322.77	1.13868	0000-0830		323.34	89	323.42	34
3 16 71	7362	322.77	1.13884	0000-1100		324.49	93	324.39	44
3 17 71	7362	322.77	1.13900	0045-0800		324.19	91	323.61	28
3 18 71	7362	322.77	1.13916	0000-0800		323.45	94	323.34	32
3 19 71	7362	322.77	1.13932	0000-0900					
3 19 71	1008	322.14	1.13932	1615-2400		323.57	68	323.64	64

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
3 20 71	1008	322.14	1.13948	0000-1300		323.93	96	323.81	52
3 21 71	1008	322.14	1.13964	0000-2400		323.57	96	323.57	96
3 22 71	1008	322.14	1.13981	0000-1100, 1845-2400		323.30	94	323.33	65
3 23 71	1008	322.14	1.13997	0000-0600, 1515-2400		323.44	92	323.12	55
3 24 71	1008	322.14	1.14013	1715-2400		322.99	92	321.96	23
3 25 71	1008	322.14	1.14029	0000-0700, 1715-2400		323.06	96	322.88	55
3 26 71	1008	322.14	1.14045	0145-1000		324.90	94	325.04	33
3 27 71	1008	322.14	1.14061	0000-0700		324.89	91	323.92	28
3 28 71	1008	322.14	1.14077	0000-0800		324.60	96	325.13	32
3 29 71	1008	322.14	1.14093	0000-0900, 1515-2400		324.08	79	323.98	70
3 30 71	1008	322.14	1.14109	1515-2400		324.68	96	323.84	35
3 31 71	1008	322.14	1.14126	0000-0730		324.67	56	324.26	30
MONTHLY AVERAGES						323.90 (31 DAYS)		323.65 (29 DAYS)	
4 1 71	1008	322.14	1.14142			0	0	0	0
4 2 71	1008	322.14	1.14158	1815-2400		323.91	49	323.88	23
4 3 71	1008	322.14	1.14174	0000-0700, 1045-2400		323.73	92	323.67	78
4 4 71	1008	322.14	1.14190	0000-2400		323.84	96	323.84	96
4 5 71	1008	322.14	1.14206	0000-2400		323.41	73	323.41	73
4 6 71	1008	322.14	1.14223	0000-2400		323.70	95	323.70	95
4 7 71	1008	322.14	1.14239	0000-0900, 1815-2400		323.77	96	323.67	59
4 8 71	1008	322.14	1.14255	0000-0400, 1615-2400		323.59	96	323.31	47
4 9 71	1008	322.14	1.14271	0000-1100, 2045-2400		323.27	93	323.45	57
4 10 71	1008	322.14	1.14287	0000-2400		323.77	96	323.77	96
4 11 71	1008	322.14	1.14303	0000-0900		323.96	96	323.89	36
4 12 71	1008	322.14	1.14320			324.37	76	0	0
4 13 71	1008	322.14	1.14336	1315-2000		324.71	91	323.99	24
4 14 71	1008	322.14	1.14352	0000-1200		324.08	96	324.45	48

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK No.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
4 15 71	1008	322.14	1.14368	1115-2100		324.11	94	323.70	37
4 16 71	1008	322.14	1.14385	0215-0600					
4 16 71	11082	322.92	1.14385	1415-2400		324.02	72	323.83	54
4 17 71	11082	322.92	1.14401	0000-2400		324.10	96	324.10	96
4 18 71	11082	322.92	1.14417	0000-1700		324.41	96	324.17	68
4 19 71	11082	322.92	1.14433	1815-2400		325.03	88	324.78	23
4 20 71	11082	322.92	1.14449	0000-2400		325.08	94	325.08	94
4 21 71	11082	322.92	1.14466	1245-2400		325.21	96	324.41	45
4 22 71	11082	322.92	1.14482	0815-2400		325.50	96	325.70	63
4 23 71	11082	322.92	1.14498	0700-0900, 1315-2400		325.53	79	325.53	79
4 24 71	11082	322.92	1.14514	0000-2400		325.41	96	325.41	96
4 25 71	11082	322.92	1.14531	0000-2400		325.13	96	325.13	96
4 26 71	11082	322.92	1.14547	0000-0700, 1645-2400		324.62	94	324.69	57
4 27 71	11082	322.92	1.14563	0515-1330, 1915-2400		325.00	91	325.07	49
4 28 71	11082	322.92	1.14579	0000-2400		325.19	92	325.19	92
4 29 71	11082	322.92	1.14596	0000-0830, 1745-2400		325.07	93	324.60	59
4 30 71	11082	322.92	1.14612	0000-0900, 1745-2400		323.78	72	323.72	58
MONTHLY AVERAGES						324.39 (29 DAYS),	324.29 (28 DAYS)		
5 1 71	11082	322.92	1.14628	0215-0800, 1345-2400		324.20	91	324.09	59
5 2 71	11082	322.92	1.14645	0000-0400, 1415-2400		325.21	88	324.93	51
5 3 71	11082	322.92	1.14661	0000-2400		325.49	93	325.49	93
5 4 71	11082	322.92	1.14677	0000-2400		325.56	96	325.56	96
5 5 71	11082	322.92	1.14693	0000-0830		325.64	96	325.60	34
5 6 71	11082	322.92	1.14710	0000-0730		325.69	96	325.79	30
5 7 71	11082	322.92	1.14726	0000-0600, 2215-2400		325.16	82	325.96	31
5 8 71	11082	322.92	1.14742	0000-1300		324.96	96	325.52	52
5 9 71	11082	322.92	1.14759	0000-0900, 1815-2400		325.40	96	325.39	59

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
5 10 71	11082	322.92	1.14775	0000-2400		325.33	74	325.33	74
5 11 71	11082	322.92	1.14791	0000-0800, 1915-2400		325.72	91	325.71	49
5 12 71	11082	322.92	1.14808	0000-0700					
5 12 71	3759	318.94	1.14808	2015-2400		325.75	78	326.10	43
5 13 71	3759	318.94	1.14824	0000-0600		325.25	90	325.53	24
5 14 71	3759	318.94	1.14840	1745-2400		325.50	72	326.00	25
5 15 71	3759	318.94	1.14857	0000-2400		325.91	92	325.84	86
5 16 71	3759	318.94	1.14873	0000-1100		325.68	92	326.28	44
5 17 71	3759	318.94	1.14889	1115-2400		325.88	93	325.34	51
5 18 71	3759	318.94	1.14906	0000-0830		325.40	96	325.51	34
5 19 71	3759	318.94	1.14922	0115-0600, 1445-2400		325.73	96	325.54	56
5 20 71	3759	318.94	1.14939	0000-0700, 1445-2400		325.91	96	325.70	65
5 21 71	3759	318.94	1.14955	0000-0800, 1815-2400		325.31	79	325.30	55
5 22 71	3759	318.94	1.14971	0000-0700, 1945-2400		325.37	96	325.35	45
5 23 71	3759	318.94	1.14988	0000-1000		325.69	58	325.30	40
5 24 71	3759	318.94	1.15004	0000-2400		325.50	87	325.50	87
5 25 71	3759	318.94	1.15021	0000-2400		325.46	96	325.46	96
5 26 71	3759	318.94	1.15037	0000-2400		325.37	96	325.37	96
5 27 71	3759	318.94	1.15053	0000-0900, 2015-2400		325.55	91	325.48	51
5 28 71	3759	318.94	1.15070	0315-0700, 2015-2400		325.73	70	326.09	28
5 29 71	3759	318.94	1.15086	0000-1100		324.65	96	325.16	44
5 30 71	3759	318.94	1.15103	0315-1300		325.12	95	325.02	39
MONTHLY AVERAGES						325.44 (30 DAYS),		325.51 (30 DAYS)	
6 1 71	3759	318.94	.90111	1215-2400		324.96	48	324.96	47
6 2 71	3759	318.94	.90207	1315-2400		325.88	96	324.73	43
6 3 71	3759	318.94	.90303	0000-0830, 2015-2400		324.94	96	324.94	49
6 4 71	3759	318.94	.90400	0000-0700, 2015-2400		325.16	96	325.43	43

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA	ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	
6 5 71	3759	318.94	.90496	0000-0600, 1715-2200	325.37	96	325.45	43	
6 6 71	3759	318.94	.90593	0945-1800	325.35	72	325.56	33	
6 7 71	3759	318.94	.90690						
6 7 71	4296	318.46	.90690		324.60	72	0	0	
6 8 71	4296	318.46	.90787	0000-0600, 1215-2400	324.55	96	324.56	71	
6 9 71	4296	318.46	.90885	0000-0800, 1745-2400	325.31	96	325.19	57	
6 10 71	4296	318.46	.90983	0000-2400	325.83	93	325.83	93	
6 11 71	4296	318.46	.91080	0000-2400	325.73	96	325.73	96	
6 12 71	4296	318.46	.91178	0000-2400	325.54	96	325.54	96	
6 13 71	4296	318.46	.91277	0000-0900	325.71	85	325.87	36	
6 14 71	4296	318.46	.91375	0000-0900, 1315-2400	324.57	79	324.57	76	
6 15 71	4296	318.46	.91474	0000-2400	324.81	96	324.81	96	
6 16 71	4296	318.46	.91573	0000-1130	324.67	95	324.97	46	
6 17 71	4296	318.46	.91672	0000-2400	324.80	96	324.80	96	
6 18 71	4296	318.46	.91771	0000-0900	324.16	95	323.97	36	
6 19 71	4296	318.46	.91871	0915-2200	324.92	96	325.18	51	
6 20 71	4296	318.46	.91971	0000-2400	324.74	96	324.74	96	
6 21 71	4296	318.46	.92071	0000-0900	324.85	76	324.55	36	
6 22 71	4296	318.46	.92171	0000-1030, 1715-2400	325.15	96	325.12	69	
6 23 71	4296	318.46	.92271	0000-2400	325.02	89	325.02	89	
6 24 71	4296	318.46	.95222	0000-0930	325.01	78	325.18	38	
6 25 71	4296	318.46	.95871	1415-2400	325.64	71	325.89	30	
6 26 71	4296	318.46	.96530	0315-2400	325.53	96	325.59	83	
6 27 71	4296	318.46	.97197	0000-0700, 1215-2400	324.96	96	325.02	75	
6 28 71	4296	318.46	.97874	0000-2230	324.53	78	324.41	72	
6 29 71	4296	318.46	.98560	0045-2400	324.38	96	324.35	93	
6 30 71	4296	318.46	.99256	0000-0330, 0715-1230	324.47	96	324.84	35	
MONTHLY AVERAGES						325.04 (30 DAYS),	325.06 (29 DAYS)		

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
7 1 71	4296	318.46	.99962	0000-0700		324.36	89	324.26	28
7 2 71	4296	318.46	1.00678	0000-0800					
7 2 71	4290	319.42	1.00678	1545-2400		324.21	72	324.09	65
7 3 71	4290	319.42	1.01404	0000-0800		324.34	96	324.30	32
7 4 71	4290	319.42	1.02141	0000-0830		324.57	64	324.40	34
7 5 71	4290	319.42	1.02889	0000-0900		324.60	69	325.10	36
7 6 71	4290	319.42	1.03647	0000-0730					
7 6 71	2419	319.33	1.03647			324.49	95	324.61	30
7 7 71	2419	319.33	1.04417	0345-1430		324.10	89	323.95	43
7 8 71	2419	319.33	1.05199	0000-2400		324.71	96	324.71	96
7 9 71	2419	319.33	1.05992	0045-0400		324.49	66	325.34	13
7 10 71	2419	319.33	1.06797			324.41	91	0	0
7 11 71	2419	319.33	1.07615	1045-1900		324.63	36	324.67	33
7 12 71	2419	319.33	.97214	1245-2400		323.75	47	323.74	45
7 13 71	2419	319.33	.97214	0000-2400		323.82	96	323.82	96
7 14 71	2419	319.33	.97214	0000-1400, 2045-2400		323.70	96	323.92	69
7 15 71	2419	319.33	.97214	0000-1330		323.56	88	323.88	54
7 16 71	2419	319.33	.97214	1645-2400		324.00	78	323.66	29
7 17 71	2419	319.33	.97214	0645-1300		323.82	96	324.69	25
7 18 71	2419	319.33	.97214	0000-1830		324.18	74	324.18	74
7 19 71	2419	319.33	.97214	0045-2400		324.16	94	324.17	93
7 20 71	2419	319.33	.97214	0645-2400		323.96	84	323.99	69
7 21 71	2419	319.33	.97214	0000-2400		323.71	96	323.71	96
7 22 71	2419	319.33	.97214	0000-2400		323.11	95	323.11	95
7 23 71	2419	319.33	.97214	0000-0900		322.55	73	322.64	36
7 24 71	2419	319.33	.97214	0000-0700, 1115-2400		322.51	96	322.47	79
7 25 71	2419	319.33	.97214	0045-0700, 1945-2400		322.42	95	322.33	42
7 26 71	2419	319.33	.97214	0000-0800		322.45	67	322.49	32
MONTHLY AVERAGES						323.87 (26 DAYS),	323.93 (25 DAYS)		

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	319.33 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
8 2 71	2419	319.33	.96959	1445-2400		323.40	39	323.43	37
8 3 71	2419	319.33	.96979	0000-2400		323.23	96	323.23	96
8 4 71	2419	319.33	.97000	1245-2400		323.38	96	323.28	45
8 5 71	2419	319.33	.97020	0000-1200		322.51	96	323.05	46
8 6 71	2419	319.33	.97040	0000-0830					
8 6 71	4277	318.74	.97040	0845-0930		322.32	71	322.62	34
8 7 71	4277	318.74	.97060	0000-1130		322.50	88	322.97	46
8 8 71	4277	318.74	.97081	0000-1100		322.34	80	322.56	44
8 9 71	4277	318.74	.97101	0000-0730		322.40	82	322.24	29
8 10 71	4277	318.74	.97121	0115-0800		322.65	72	322.90	23
8 11 71	4277	318.74	.97142	1545-2400		322.64	96	322.56	33
8 12 71	4277	318.74	.97162			321.46	94	0	0
8 13 71	4277	318.74	.97182	0045-0730		321.87	76	322.13	27
8 14 71	4277	318.74	.97203			322.20	65	0	0
8 17 71	4277	318.74	.97264			321.34	47	0	0
8 18 71	4277	318.74	.97284	0000-1000, 1915-2400		321.69	96	322.20	59
8 19 71	4277	318.74	.97304	0000-1200, 2215-2400		322.21	96	322.37	55
8 20 71	4277	318.74	.97325	0000-0830, 1945-2400		321.86	75	322.62	51
8 21 71	4277	318.74	.97345	0000-0700, 1945-2400		322.47	96	322.52	45
8 22 71	4277	318.74	.97365	0000-1200		322.11	96	322.47	48
8 23 71	4277	318.74	.97386	1745-2400		320.83	95	320.84	25
8 24 71	4277	318.74	.97406			320.89	95	0	0
8 25 71	4277	318.74	.97427	0000-0730		321.73	58	321.29	30
8 26 71	4277	318.74	.97447	1615-2400		321.46	95	321.33	31
8 27 71	4277	318.74	.97468	0000-0830		320.14	79	320.70	34
8 28 71	4277	318.74	.97488	1545-2400		320.17	96	319.98	33
8 29 71	4277	318.74	.97508	0000-0600		320.13	96	320.31	24
8 30 71	4277	318.74	.97529	0000-0600, 1545-2400		321.14	89	321.13	51
8 31 71	4277	318.74	.97549						
8 31 71	2418	319.47	.97549			320.16	25	0	0
MONTHLY AVERAGES						321.83 (28 DAYS),	322.12 (23 DAYS)		

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TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
9 1 71	2418	319.47	.97570	0000-0800		319.85	60	319.80	32
9 2 71	2418	319.47	.97590	0000-0600		320.56	50	320.28	24
9 3 71	2418	319.47	.97611	0000-0900, 1415-2400		320.33	78	320.31	75
9 4 71	2418	319.47	.97631	0000-0700, 2015-2400		320.79	96	321.20	43
9 5 71	2418	319.47	.97652	0000-0800, 1615-2400		320.81	96	320.95	63
9 6 71	2418	319.47	.97672	0000-1000, 1715-2400		320.58	96	320.42	67
9 7 71	2418	319.47	.97693	0000-1200, 1915-2400		320.03	95	320.28	67
9 8 71	2418	319.47	.97713	0000-2400		319.91	96	319.91	96
9 9 71	2418	319.47	.97734	0000-0700		319.75	62	320.20	28
9 10 71	2418	319.47	.97754	0000-0830, 1815-2400		319.21	75	319.44	57
9 11 71	2418	319.47	.97775	0215-1000		319.51	96	320.73	31
9 12 71	2418	319.47	.97796	0000-0730		320.39	96	321.05	30
9 13 71	2418	319.47	.97816	0000-0700, 2015-2400		320.14	96	320.21	43
9 14 71	2418	319.47	.97837	0000-0900, 1945-2400		320.10	80	320.60	53
9 15 71	2418	319.47	.97857	0000-0800, 1945-2400		320.29	96	320.49	49
9 16 71	2418	319.47	.97878	0000-0800		320.20	96	320.98	32
9 17 71	2418	319.47	.97899	1145-2400		320.50	94	319.87	49
9 20 71	2418	319.47	.97960			319.36	56	0	0
9 21 71	2418	319.47	.97981	0000-0800, 1545-2400		318.99	96	318.86	65
9 22 71	2418	319.47	.98002	0000-0600, 1415-2400		319.73	96	319.46	63
9 23 71	2418	319.47	.98022	0000-0830					
9 23 71	1008	321.40	.98022	1545-2400		319.69	72	319.78	67
9 24 71	1008	321.40	.98043	0215-0900, 1615-2400		319.69	92	319.70	58
9 25 71	1008	321.40	.98064	1645-2400		320.10	96	319.41	29
9 26 71	1008	321.40	.98085	1545-2400		320.12	96	319.76	33
9 27 71	1008	321.40	.98105	0415-1100		320.61	96	321.70	27
9 28 71	1008	321.40	.98126	1545-2400		320.91	96	320.41	33
9 29 71	1008	321.40	.98147	1545-2200		321.00	78	320.37	25
9 30 71	1008	321.40	.98167	0115-1000, 1815-2400		320.01	96	320.42	58
MONTHLY AVERAGES						320.11 (28 DAYS),	320.24 (27 DAYS)		

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
10 1 71	1008	321.40	.98188	0000-0500, 1415-2400		319.95	96	319.64	59
10 2 71	1008	321.40	.98209	0000-0800, 1745-2400		319.73	96	319.54	57
10 3 71	1008	321.40	.98230	0000-0630, 2015-2400		319.81	96	319.88	41
10 4 71	1008	321.40	.98250	0000-1000, 1945-2400		320.00	96	319.93	57
10 5 71	1008	321.40	.98271	0000-0900		320.07	37	320.08	36
10 12 71	1008	321.40	.93870	1745-2400		319.80	56	319.76	25
10 13 71	1008	321.40	.93875	0000-0530, 1815-2400		320.05	64	320.22	45
10 14 71	1008	321.40	.93880	0000-0600, 1415-2400		320.30	65	320.30	63
10 15 71	1008	321.40	.93885	0000-0930, 1645-2100		320.28	57	320.27	55
10 16 71	1008	321.40	.93889	1515-2400		319.66	43	319.47	33
10 17 71	1008	321.40	.93894	0000-0700		319.46	71	320.22	28
10 18 71	181	320.89	.93899	1515-2400		320.44	36	320.45	35
10 19 71	181	320.89	.93904	0000-2400		320.85	96	320.85	96
10 20 71	181	320.89	.93908	0045-1000, 1345-2400		320.77	83	320.74	78
10 21 71	181	320.89	.93913	0000-2400		320.53	93	320.53	93
10 22 71	181	320.89	.93918	0000-2400		320.34	96	320.34	96
10 23 71	181	320.89	.93923	0000-2400		320.38	96	320.38	96
10 24 71	181	320.89	.93927	0000-1230, 1415-2400		320.30	96	320.28	88
10 25 71	181	320.89	.93932	0000-2400		320.15	96	320.15	94
10 26 71	181	320.89	.93937	1545-2400		320.39	96	320.24	33
10 27 71	181	320.89	.93942	1515-2130		321.13	73	321.02	25
10 28 71	181	320.89	.93946	0045-1200, 2015-2400		320.73	96	321.21	60
10 29 71	181	320.89	.93951	0000-2400		321.13	94	321.13	94
10 30 71	181	320.89	.93956	0000-2400		321.91	96	321.91	96
10 31 71	181	320.89	.93961	1545-2400		320.94	96	320.68	33
MONTHLY AVERAGES						320.36 (25 DAYS),		320.37 (25 DAYS)	
11 1 71	181	320.89	.93965	0000-0900, 2015-2400		320.75	76	320.84	51

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
11 2 71	181	320.89	.93970	0000-0400, 1715-2400		320.74	96	320.69	43
11 3 71	181	320.89	.93975	0000-0400, 1745-2400		320.55	92	320.58	41
11 4 71	181	320.89	.93980	0000-0830, 1715-2400		321.02	96	321.03	61
11 5 71	181	320.89	.93984	0000-0900		321.01	75	320.75	35
11 6 71	181	320.89	.93989	0345-2400		321.00	96	320.98	81
11 7 71	181	320.89	.93994	0000-2400		321.28	96	321.28	96
11 8 71	181	320.89	.93999	0000-2400		321.51	96	321.51	96
11 9 71	181	320.89	.94004	0000-0900					
11 9 71	11081	320.89	.94004	1845-2400		321.13	71	321.17	57
11 10 71	11081	320.89	.94008	0000-1300, 1945-2400		321.15	96	321.33	69
11 11 71	11081	320.89	.94013	0000-0900, 2015-2400		321.31	96	321.20	51
11 12 71	11081	320.89	.94018	0000-2400		321.25	96	321.25	96
11 13 71	11081	320.89	.94023	0000-2400		321.34	96	321.34	96
11 14 71	11081	320.89	.94027	0000-1130		321.18	96	321.32	46
11 15 71	11081	320.89	.94032	0945-2400		321.78	96	321.57	57
11 16 71	11081	320.89	.94037	0000-0730, 1315-2400		321.77	92	321.65	73
11 17 71	11081	320.89	.94042	0000-0900, 1445-2400		322.13	74	322.13	73
11 18 71	11081	320.89	.94046	0000-2400		321.82	96	321.82	96
11 19 71	11081	320.89	.94051	0000-2400		321.50	96	321.50	96
11 20 71	11081	320.89	.94056	0000-2400		321.42	96	321.42	96
11 21 71	11081	320.89	.94061	0000-2400		322.06	96	322.06	96
11 22 71	11081	320.89	.94065	0715-2400		321.96	96	322.01	67
11 23 71	11081	320.89	.94070	0000-0900, 1715-2400		322.01	81	322.18	63
11 24 71	11081	320.89	.94075	0000-2400		322.41	96	322.41	96
11 25 71	11081	320.89	.94080	0000-2400		322.41	96	322.41	96
11 26 71	11081	320.89	.94084	0000-2400		322.26	93	322.26	93
11 27 71	11081	320.89	.94089	0000-2400		322.31	96	322.31	96
11 28 71	11081	320.89	.94094	0000-2400		322.19	96	322.19	96
11 29 71	11081	320.89	.94099	0000-2400		322.32	96	322.32	96

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	320.89 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
11 30 71	11081	320.89	.94104	0000-0800		322.07	79	322.38	32
MONTHLY AVERAGES						321.59 (30 DAYS),		321.60 (30 DAYS)	
12 1 71	11081	320.89	.94108	0000-2400		322.03	96	322.03	96
12 2 71	11081	320.89	.94113	0000-2400		322.18	94	322.18	94
12 3 71	11081	320.89	.94118	0000-2400		322.12	96	322.12	96
12 4 71	11081	320.89	.94123	0000-2400		322.05	96	322.05	96
12 5 71	11081	320.89	.94127	0000-2330		322.19	96	322.18	94
12 6 71	11081	320.89	.94132						
12 6 71	181	320.89	.94132	1430-2400		322.42	59	322.36	38
12 7 71	181	320.89	.94137	0000-2400		322.14	96	322.12	94
12 8 71	181	320.89	.94142	0000-0900					
12 8 71	7362	321.65	.94142	1615-2400		322.05	71	322.05	66
12 9 71	7362	321.65	.94146	0000-0600, 0815-2400		322.28	96	322.21	87
12 10 71	7362	321.65	.94151	0000-0830, 1045-2400		322.62	92	322.63	87
12 11 71	7362	321.65	.94156	0000-2400		322.66	96	322.66	96
12 12 71	7362	321.65	.94161	0000-2400		322.60	96	322.60	96
12 13 71	7362	321.65	.94166	0000-2400		322.88	96	322.88	96
12 14 71	7362	321.65	.94170	0000-0900, 1615-2400		323.08	74	323.08	67
12 15 71	7362	321.65	.94175	0000-2400		323.00	96	323.00	96
12 16 71	7362	321.65	.94180	0000-1200		322.35	96	322.60	48
12 17 71	7362	321.65	.94185	0515-1400		323.04	96	322.94	35
12 18 71	7362	321.65	.94189	0315-2200		322.87	96	322.80	75
12 19 71	7362	321.65	.94194	0115-2400		323.09	96	323.08	91
12 20 71	7362	321.65	.94199	0000-2400		323.05	96	323.05	96
12 21 71	7362	321.65	.94204	0000-1000, 1415-2400		322.97	80	322.97	78
12 22 71	7362	321.65	.94209	0000-2030		323.22	96	323.04	82
12 23 71	7362	321.65	.94213	1715-2400		323.15	96	322.97	27

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	321.65 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
12 24 71	7362	321.65	.94218	0000-2400		323.02	96	322.95	91
12 25 71	7362	321.65	.94223	0000-1000, 1915-2400		322.92	96	322.88	59
12 26 71	7362	321.65	.94228	0000-2400		323.08	96	323.08	96
12 27 71	7362	321.65	.94232	0000-0900, 1415-2400		322.97	76	322.96	74
12 28 71	7362	321.65	.94237	0000-2400		323.04	96	323.04	96
12 29 71	7362	321.65	.94242	0000-2400		323.13	94	323.13	94
12 30 71	7362	321.65	.94247	0000-2400		323.11	96	323.08	94
12 31 71	7362	321.65	.94252	0000-0530, 0845-2400		323.25	96	323.15	83
MONTHLY AVERAGES						322.73 (31 DAYS),		322.70 (31 DAYS)	
1 1 72	7362	321.65	.94256	0815-2400		323.17	96	322.87	63
1 2 72	7362	321.65	.94261	0000-0600		323.19	96	323.58	24
1 3 72	7362	321.65	.94266	0000-0900					
1 3 72	7355	322.61	.94266			323.43	76	323.51	36
1 4 72	7355	322.61	.94271			324.20	7	0	0
1 5 72	7355	322.61	.94276	1015-2400		323.32	56	323.31	55
1 6 72	7355	322.61	.94280	0000-1500, 1915-2400		323.25	95	323.32	78
1 7 72	7355	322.61	.94285	0000-2400		323.30	96	323.30	96
1 8 72	7355	322.61	.94290	0000-1430, 1915-2400		323.17	96	323.28	77
1 9 72	7355	322.61	.94295	0000-2400		323.21	96	323.21	96
1 10 72	7355	322.61	.94299	0000-1130, 2015-2400		323.09	96	323.11	61
1 11 72	7355	322.61	.94304	0000-0900, 2015-2400		323.01	74	323.18	50
1 12 72	7355	322.61	.94309	0000-1030, 2015-2400		322.81	96	323.20	57
1 13 72	7355	322.61	.94314	0000-1200, 1845-2400		323.12	88	323.20	61
1 14 72	7355	322.61	.94319	0000-2400		323.22	96	323.22	96
1 15 72	7355	322.61	.94323	0000-2400		323.17	96	323.12	92
1 16 72	7355	322.61	.94328	0000-1600, 1915-2400		323.07	96	323.17	83
1 17 72	7355	322.61	.94333	0000-0400, 0815-2400		323.30	96	323.13	79

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	322.61 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
1 18 72	7355	322.61	.94338	0000-2400		323.24	95	323.24	95
1 19 72	7355	322.61	.94343	0000-0900, 1445-2400		323.16	73	323.16	72
1 20 72	7355	322.61	.94347	0000-1300		323.40	51	323.40	51
1 21 72	7355	322.61	.94352	0915-2400		323.01	61	323.01	59
1 22 72	7355	322.61	.94357	0000-1200, 1915-2400		323.03	96	323.24	67
1 23 72	7355	322.61	.94362	0000-1100, 2115-2400		323.03	96	323.23	55
1 24 72	7355	322.61	.94367	0000-0900, 1415-2400		323.18	75	323.18	75
1 25 72	7355	322.61	.94371	0000-2400		323.34	96	323.34	96
1 26 72	7355	322.61	.94376	0000-2400		323.49	96	323.49	96
1 27 72	7355	322.61	.94381	0000-0900					
1 27 72	4276	322.09	.94381	1415-2400		323.57	75	323.57	74
1 28 72	4276	322.09	.94386	0000-2400		323.62	96	323.62	96
1 29 72	4276	322.09	.94391	0000-2400		324.10	96	324.10	96
1 30 72	4276	322.09	.94395	0000-2400		323.97	96	323.97	96
1 31 72	4276	322.09	.94400	0000-2400		324.40	96	324.40	96
MONTHLY AVERAGES						323.34 (31 DAYS),		323.36 (30 DAYS)	
2 1 72	4276	322.09	.94405	0000-0900, 1415-2400		323.86	77	323.87	75
2 2 72	4276	322.09	.94410	0000-1200, 1915-2400		323.76	96	323.82	67
2 3 72	4276	322.09	.94415	0000-1130, 1745-2400		323.82	96	323.97	69
2 4 72	4276	322.09	.94419	0000-2400		323.61	94	323.61	94
2 5 72	4276	322.09	.94424	0000-2400		324.18	96	324.18	96
2 6 72	4276	322.09	.94429	0000-2400		324.40	96	324.42	92
2 7 72	4276	322.09	.94434	0000-2400		323.97	96	323.97	96
2 8 72	4276	322.09	.94439	0000-2230		324.27	96	324.23	90
2 9 72	4276	322.09	.94443	1415-2400		324.47	75	324.12	37
2 10 72	4276	322.09	.94448	0000-2400		324.21	94	324.20	92
2 11 72	4276	322.09	.94453	0000-2400		324.44	96	324.44	96

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	322.09 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
2 12 72	4276	322.09	.94458	0000-2400		324.55	96	324.55	96
2 13 72	4276	322.09	.94463	0000-2400		324.82	96	324.82	96
2 14 72	4276	322.09	.94467	0000-0900, 2115-2400		324.49	76	324.88	47
2 15 72	4276	322.09	.94472	0000-2400		324.99	96	324.99	96
2 16 72	4276	322.09	.94477	0000-0500, 1815-2400		324.62	96	324.63	43
2 17 72	4276	322.09	.94482	0000-0830					
2 17 72	2421	321.85	.94482	1415-2400		324.24	73	324.24	73
2 18 72	2421	321.85	.94487	0000-1300, 1745-2400		324.42	96	324.48	77
2 19 72	2421	321.85	.94491	0000-1400, 1815-2400		324.58	96	324.68	79
2 20 72	2421	321.85	.94496	0000-0500, 0815-2100		324.62	96	324.46	71
2 21 72	2421	321.85	.94501	0615-2400		324.45	95	324.19	70
2 22 72	2421	321.85	.94506	0000-1000		324.14	41	324.14	40
2 23 72	2421	321.85	.94511	1515-2400		323.57	37	323.57	35
2 24 72	2421	321.85	.94515	0000-1200, 1515-2400		323.90	96	323.96	81
2 25 72	2421	321.85	.94520	0000-2400		324.01	96	324.01	96
2 26 72	2421	321.85	.94525	0000-2400		324.64	96	324.64	96
2 27 72	2421	321.85	.94530	0000-2400		324.05	96	324.05	96
2 28 72	2421	321.85	.94535	0000-0730		323.84	77	323.83	30
2 29 72	2421	321.85	.94540	0000-1200		324.11	96	324.03	48
MONTHLY AVERAGES						324.24 (29 DAYS),		324.24 (29 DAYS)	
3 1 72	2421	321.85	.94544	1745-2400		324.19	96	323.85	25
3 2 72	2421	321.85	.94549	0000-2400		323.66	94	323.66	94
3 3 72	2421	321.85	.94554	0000-2400		323.65	96	323.65	96
3 4 72	2421	321.85	.94559	0000-2400		324.21	96	324.21	96
3 5 72	2421	321.85	.94564	0000-2400		324.99	96	324.99	96
3 6 72	2421	321.85	.94568	0000-2400		324.56	96	324.56	96
3 7 72	2421	321.85	.94573	0000-2400		324.27	72	324.27	72

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
3 8 72	2421	321.85	.94578	0000-2400		324.03	96	324.03	96
3 9 72	2421	321.85	.94583	0000-2400		323.63	96	323.60	94
3 10 72	2421	321.85	.94588						
3 10 72	2407	322.07	.94588			324.35	70	0	0
3 11 72	2407	322.07	.94593	1845-2400		323.73	96	323.60	21
3 12 72	2407	322.07	.94597	0000-0900		323.46	96	323.81	36
3 13 72	2407	322.07	.94602	0000-1200, 1945-2400		323.45	95	323.78	65
3 14 72	2407	322.07	.94607	0000-2400		323.73	93	323.73	93
3 15 72	2407	322.07	.94612	0000-0300, 1945-2400		324.40	75	324.17	29
3 16 72	2407	322.07	.94617	0000-1200, 1945-2400		324.45	96	324.62	65
3 17 72	2407	322.07	.94621	0000-2400		324.67	96	324.68	94
3 18 72	2407	322.07	.94626	0000-0800		324.26	96	324.49	32
3 19 72	2407	322.07	.94631	0000-2400		324.61	96	324.61	96
3 20 72	2407	322.07	.94636	0000-2400		323.97	72	323.97	72
3 21 72	2407	322.07	.94641	0000-2400		323.91	96	323.84	90
3 22 72	2407	322.07	.94646	0000-2400		324.01	96	324.01	95
3 23 72	2407	322.07	.94650	0000-0900		323.72	78	323.82	35
3 24 72	2407	322.07	.94655	1845-2400		325.15	96	326.25	21
3 25 72	2407	322.07	.94660	0000-0600		325.45	96	326.46	24
3 26 72	2407	322.07	.94665			326.31	7	0	0
3 27 72	2407	322.07	.94670			325.93	65	0	0
3 28 72	2407	322.07	.94675			325.56	45	0	0
3 29 72	2407	322.07	.94679	0245-2400		325.70	87	325.73	84
3 30 72	2407	322.07	.94684	0000-2400		326.56	96	326.56	96
3 31 72	2407	322.07	.94689	0000-2400		326.29	96	326.29	96
MONTHLY AVERAGES						324.54 (31 DAYS),		324.49 (27 DAYS)	
4 1 72	2407	322.07	.94694						
4 1 72	2419	320.98	.94694			324.75	54	0	0

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	320.98 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
4 2 72	2419	320.98	.94699	0000-0900		325.75	35	325.75	35
4 3 72	2419	320.98	.94703	1145-2400		324.27	51	324.26	49
4 4 72	2419	320.98	.94708	0000-2400		324.35	73	324.35	73
4 5 72	2419	320.98	.94713	0000-2400		324.70	87	324.70	87
4 6 72	2419	320.98	.94718	0000-2400		324.99	96	324.99	96
4 7 72	2419	320.98	.94723	0000-0800, 1745-2400		325.97	96	325.70	57
4 8 72	2419	320.98	.94728	0000-0600, 1745-2400		326.51	96	326.34	49
4 9 72	2419	320.98	.94732	0000-1400, 1745-2400		326.44	96	326.66	81
4 10 72	2419	320.98	.94737	0000-0900		327.04	74	326.83	36
4 11 72	2419	320.98	.94742	0245-2400		326.71	96	326.62	85
4 12 72	2419	320.98	.94747	0000-2400		326.76	96	326.69	92
4 13 72	2419	320.98	.94752	0000-0800, 1345-2400		326.46	91	326.31	73
4 14 72	2419	320.98	.94757	0000-2400		326.26	96	326.25	94
4 15 72	2419	320.98	.94761	1145-2400		326.73	96	326.27	49
4 16 72	2419	320.98	.94766	0000-2400		326.41	96	326.38	93
4 17 72	2419	320.98	.94771	0000-2400		326.01	96	326.01	96
4 18 72	2419	320.98	.94776	0000-0900, 1845-2400		326.00	76	326.18	57
4 19 72	2419	320.98	.94781	0000-2400		326.01	96	326.01	96
4 20 72	2419	320.98	.94786	0000-2400		326.17	96	326.17	96
4 21 72	2419	320.98	.94790	0000-2400		326.01	78	326.01	78
4 22 72	2419	320.98	.94795	0000-2400		326.13	96	326.12	95
4 23 72	2419	320.98	.94800	0000-2400		326.98	96	326.96	95
4 24 72	2419	320.98	.94805	0000-0600, 1945-2400		326.87	96	327.34	41
4 25 72	2419	320.98	.94810	0000-0900		326.76	73	327.37	36
4 26 72	2419	320.98	.94815			326.55	96	0	0
4 27 72	2419	320.98	.94820	0000-2400		326.25	96	326.25	96
4 28 72	2419	320.98	.94824	0000-1445					
4 28 72	4286	321.49	.94824	1500-2400		326.43	71	326.43	71
4 29 72	4286	321.49	.94829	0000-2400		326.53	96	326.53	96

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	321.49 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
4 30 72	4286	321.49	.94834	0000-2400		326.43	96	326.43	96
MONTHLY AVERAGES						326.11 (30 DAYS),		326.14 (28 DAYS)	
5 1 72	4286	321.49	.94839	0000-1100, 2045-2400		325.66	94	326.53	56
5 2 72	4286	321.49	.94844	0000-1200, 2015-2400		326.27	96	326.61	63
5 3 72	4286	321.49	.94849	0000-1100, 2115-2400		326.21	96	326.63	55
5 4 72	4286	321.49	.94853	0000-1000, 1715-2400		326.47	76	326.51	65
5 5 72	4286	321.49	.94858	0000-1200, 2315-2400		326.35	96	326.58	51
5 6 72	4286	321.49	.94863	0000-1000		326.17	96	326.75	36
5 7 72	4286	321.49	.94868	0000-1100, 2315-2400		325.83	96	326.29	47
5 8 72	4286	321.49	.94873	0000-1200		325.95	96	326.39	48
5 9 72	4286	321.49	.94878	2345-2400		325.87	94	326.33	1
5 10 72	4286	321.49	.94883	0000-1230, 2345-2400		325.89	96	326.19	51
5 11 72	4286	321.49	.94887	0000-0730, 2015-2400		326.01	96	326.32	45
5 12 72	4286	321.49	.94892	0000-0900, 2115-2400		326.19	73	326.44	47
5 13 72	4286	321.49	.94897	0000-2400		325.72	96	325.72	96
5 14 72	4286	321.49	.94902	0000-1100, 2315-2400		325.74	96	325.96	47
5 15 72	4286	321.49	.94907	0000-1030, 2115-2400		325.95	96	326.07	53
5 16 72	4286	321.49	.94912	0000-1200, 2015-2400		326.32	96	326.64	63
5 17 72	4286	321.49	.94916	0000-0900, 1915-2400		326.29	74	326.56	55
5 18 72	4286	321.49	.94921	0000-1000, 1715-2400		326.44	96	326.53	67
5 19 72	4286	321.49	.94926	0000-1200, 2015-2400		326.35	96	326.41	63
5 20 72	4286	321.49	.94931	0000-1300, 2015-2400		326.39	96	326.47	67
5 21 72	4286	321.49	.94936	0000-1200, 2115-2400		326.26	96	326.54	59
5 22 72	4286	321.49	.94941	0000-0900					
5 22 72	1008	321.55	.94941	1915-2400		326.32	75	326.54	55
5 23 72	1008	321.55	.94946	0000-0530, 1645-2400		326.76	90	326.66	51
5 24 72	1008	321.55	.94950	0000-1100, 1645-2400		326.62	95	326.65	73

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	321.55 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA	ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	
5 25 72	1008	321.55	.94955	0000-0900, 1815-2400	326.57	95	326.60	57	
5 26 72	1008	321.55	.94960	0000-1200, 1915-2400	326.40	96	326.66	67	
5 27 72	1008	321.55	.94965	0000-2400	326.60	95	326.60	95	
5 28 72	1008	321.55	.94970	0000-0230, 0715-2400	326.85	96	326.75	77	
5 29 72	1008	321.55	.94975	0000-1200, 2315-2400	326.38	96	326.74	51	
5 30 72	1008	321.55	.94980	0000-2400	326.55	96	326.55	96	
5 31 72	1008	321.55	.94984	0000-0900, 1415-2400	326.55	75	326.55	74	
MONTHLY AVERAGES						326.26 (31 DAYS),	326.48 (31 DAYS)		
6 1 72	1008	321.55	.94989	0000-1000, 2015-2400	326.35	96	326.50	55	
6 2 72	1008	321.55	.94994	0000-2400	326.06	96	326.06	96	
6 3 72	1008	321.55	.94999	0000-1100, 1615-2400	326.06	96	326.30	75	
6 4 72	1008	321.55	.95004	0000-2400	325.98	96	325.99	95	
6 5 72	1008	321.55	.95009	0000-1000, 1915-2400	325.96	72	326.07	58	
6 6 72	1008	321.55	.98235	0000-1030, 1815-2400	325.88	96	325.72	65	
6 7 72	1008	321.55	.98144	0000-0800, 1615-2400	325.71	96	325.63	63	
6 8 72	1008	321.55	.98053	0000-1100	325.36	89	325.73	42	
6 9 72	1008	321.55	.97963	0415-1100	325.35	96	325.52	27	
6 10 72	1008	321.55	.97872		326.02	96	0	0	
6 11 72	1008	321.55	.97782		326.13	96	0	0	
6 12 72	1008	321.55	.97692	0000-2400	325.74	96	325.74	96	
6 13 72	1008	321.55	.97602	0000-1000, 1645-2400	325.53	70	325.53	68	
6 14 72	1008	321.55	.97512	0000-1200, 2315-2400	325.03	96	325.45	51	
6 15 72	1008	321.55	.97422	0000-2400	325.70	96	325.70	96	
6 16 72	1008	321.55	.97333	0000-0900					
6 16 72	4290	321.51	.97333		325.99	38	325.87	33	
6 17 72	4290	321.51	.97243	0315-1300, 1915-2400	325.62	94	325.75	58	
6 18 72	4290	321.51	.97154	0000-1200, 1815-2400	325.65	96	325.69	71	

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	321.51 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
6 19 72	4290	321.51	.97065	0000-0830, 2015-2400		325.38	90	325.52	49
6 20 72	4290	321.51	.96976	0000-0900, 2015-2400		324.54	96	324.66	51
6 21 72	4290	321.51	.96888	0000-0800					
6 21 72	1008	321.55	.96888			324.51	69	324.71	32
6 22 72	1008	321.55	.96799	2315-2400		325.03	96	324.49	3
6 23 72	1008	321.55	.96711	0000-0800					
6 23 72	4290	321.51	.96711	2315-2400		325.17	94	325.00	35
6 24 72	4290	321.51	.96622	0000-0830, 1745-2400		324.94	96	325.01	59
6 25 72	4290	321.51	.96534	0000-0630, 1515-2400		325.01	96	324.91	61
6 26 72	4290	321.51	.96447	0000-0930, 1515-2400		325.01	75	325.01	73
6 27 72	4290	321.51	.96359	0000-2400		325.12	96	325.12	96
6 28 72	4290	321.51	.96271	0000-0800		324.28	96	324.46	32
6 29 72	4290	321.51	.96184	0000-0700, 2315-2400		324.11	77	324.79	25
6 30 72	4290	321.51	.96097	0000-2400		324.71	96	324.71	96
MONTHLY AVERAGES						325.40 (30 DAYS),		325.42 (28 DAYS)	
7 1 72	4290	321.51	.96010	0000-0800		324.75	96	325.00	32
7 2 72	4290	321.51	.95923	0115-1200		324.99	96	325.35	43
7 3 72	4290	321.51	.95836	0315-1700, 1815-2400		325.30	96	325.30	78
7 4 72	4290	321.51	.95749	0000-2400		325.53	96	325.53	96
7 5 72	4290	321.51	.95663	0000-0900, 1445-2400		325.33	75	325.33	73
7 6 72	4290	321.51	.95576	0000-0900, 1915-2400		324.78	96	325.09	55
7 7 72	4290	321.51	.95490	0000-0500, 2345-2400		324.21	96	324.33	21
7 8 72	4290	321.51	.95404	0000-1200		324.08	96	324.30	48
7 9 72	4290	321.51	.95318	0000-2400		324.47	96	324.47	96
7 10 72	4290	321.51	.95233	1515-2400		325.01	74	324.87	35
7 11 72	4290	321.51	.95147	0000-2400		324.47	96	324.47	95
7 12 72	4290	321.51	.95062	0000-2400		324.61	96	324.61	96

TABLE 8. DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
7 13 72	4290	321.51	.94977	0000-0900					
7 13 72	11076	320.20	.94977	1615-2400		324.26	70	324.26	67
7 14 72	11076	320.20	.94892	0000-1300, 1915-2400		323.73	96	324.08	71
7 15 72	11076	320.20	.94807	0000-1000		324.19	96	324.18	40
7 16 72	11076	320.20	.94722	1515-2400		324.13	96	323.38	35
7 17 72	11076	320.20	.94637	1715-2400		324.51	95	324.27	27
7 18 72	11076	320.20	.94553	0000-1100, 2215-2400		324.24	96	324.56	51
7 19 72	11076	320.20	.94469	0000-1200, 2215-2400		324.41	96	324.66	55
7 20 72	11076	320.20	.94384	0000-1200		324.38	96	324.63	48
7 21 72	11076	320.20	.94300	2315-2400		324.33	92	325.01	3
7 22 72	11076	320.20	.94217	0000-1100, 1615-2400		324.16	94	324.58	73
7 23 72	11076	320.20	.94133	0000-0830		324.28	35	324.29	34
7 26 72	11076	320.20	.93262	1645-2230		323.16	26	323.15	23
7 27 72	11076	320.20	.93239	0715-1400, 2215-2400		323.84	76	324.29	34
7 28 72	11076	320.20	.93217	0000-1030		324.24	87	324.28	42
7 31 72	11076	320.20	.93150	1715-2400		323.60	34	324.01	26
MONTHLY AVERAGES						324.41 (27 DAYS),		324.53 (27 DAYS)	
8 1 72	11076	320.20	.93128	0000-1100, 2015-2400		324.12	94	324.30	57
8 2 72	11076	320.20	.93106	0000-1200, 2015-2400		323.95	96	324.27	63
8 3 72	11076	320.20	.93084	0000-0700, 2145-2400		323.37	71	323.71	37
8 4 72	11076	320.20	.93061	0000-1000, 2215-2400		322.57	96	323.15	47
8 5 72	11076	320.20	.93039	0000-1000, 2115-2400		323.00	96	323.42	49
8 6 72	11076	320.20	.93017	0000-1200, 2215-2400		322.81	92	323.22	51
8 7 72	11076	320.20	.92995	0000-0830, 2115-2400		322.78	92	323.26	43
8 8 72	11076	320.20	.92973	0000-1200		322.70	73	323.09	44
8 9 72	11076	320.20	.92951	0115-0930, 1915-2400		323.00	91	323.14	49
8 10 72	11076	320.20	.92928	0000-0800, 2015-2400		322.39	89	322.58	44

TABLE 8. DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
8 11 72	11076	320.20	.92906	0000-0830					
8 11 72	4277	320.07	.92906			322.11	60	322.03	28
8 12 72	4277	320.07	.92884	2315-2400		323.15	92	323.60	3
8 13 72	4277	320.07	.92862	0000-1200, 1915-2400		323.51	92	323.63	66
8 14 72	4277	320.07	.92840	0000-0430, 1845-2400		323.58	88	323.71	36
8 15 72	4277	320.07	.92818	0000-1100, 1815-2400		323.48	94	323.73	66
8 16 72	4277	320.07	.92796	0000-0900, 1815-2400		323.26	94	323.64	59
8 17 72	4277	320.07	.92774	0000-2400		323.64	96	323.64	96
8 18 72	4277	320.07	.92752	0000-0700, 1615-2400		323.30	96	323.22	59
8 19 72	4277	320.07	.92730	0000-0900, 1845-2400		323.11	93	322.82	53
8 20 72	4277	320.07	.92708	0000-0600, 1915-2400		323.24	93	322.89	41
8 21 72	4277	320.07	.92686	1815-2400		322.67	70	322.71	23
8 22 72	4277	320.07	.92664	0000-1000, 1945-2400		322.49	94	322.60	53
8 23 72	4277	320.07	.92642	0000-0800, 1945-2400		321.24	96	321.72	49
8 24 72	4277	320.07	.92620	0000-0800, 1915-2400		320.72	96	320.62	51
8 25 72	4277	320.07	.92598	0000-0530, 1815-2400		320.85	73	320.75	45
8 26 72	4277	320.07	.92576	0615-1730, 2315-2400		321.71	90	321.12	42
8 27 72	4277	320.07	.92554	0000-1000, 1745-2400		322.31	89	322.37	59
8 28 72	4277	320.07	.92532	0000-0700, 2015-2400		322.13	96	322.93	43
8 29 72	4277	320.07	.92510	0000-2400		321.82	93	321.82	93
8 30 72	4277	320.07	.92488	0000-0900, 1415-2400		321.53	92	321.53	71
8 31 72	4277	320.07	.92466	0000-0500		321.89	68	321.72	20
MONTHLY AVERAGES						322.66 (31 DAYS),		322.80 (31 DAYS)	
9 1 72	4277	320.07	.92444	0000-0630, 1915-2400		322.03	92	321.49	43
9 2 72	4277	320.07	.92422	0000-1000, 2015-2400		321.71	93	322.04	52
9 3 72	4277	320.07	.92400	0000-1030, 1715-2400		322.13	95	322.26	68
9 4 72	4277	320.07	.92378	0000-0730, 2015-2400		321.52	94	321.96	45

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	320.07 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
9 5 72	4277	320.07	.92356	0000-0900		321.86	96	322.40	34
9 6 72	4277	320.07	.92335	0000-0900					
9 6 72	2418	321.20	.92335	2015-2400		321.98	69	322.30	50
9 7 72	2418	321.20	.92313	0000-2400		322.23	94	322.23	93
9 8 72	2418	321.20	.92291	0000-0900, 1615-2400		322.35	95	322.57	67
9 9 72	2418	321.20	.92269	0000-1030		321.68	96	322.86	42
9 10 72	2418	321.20	.92247	0315-1030		321.85	92	322.62	25
9 11 72	2418	321.20	.92225	1615-2400		322.13	96	321.53	31
9 12 72	2418	321.20	.92204	0000-0930		321.99	78	322.33	38
9 13 72	2418	321.20	.92182	0000-0900, 1445-2400		322.00	81	322.03	73
9 14 72	2418	321.20	.92160	0000-1000		321.89	96	322.25	40
9 15 72	2418	321.20	.92138	0145-0930, 1445-2400		322.27	74	322.14	67
9 16 72	2418	321.20	.92116	0000-2300		321.43	96	321.43	90
9 17 72	2418	321.20	.92095	0315-1200, 1815-2400		320.62	96	320.80	58
9 18 72	2418	321.20	.92073	0000-1130, 1815-2400		320.65	96	320.96	69
9 19 72	2418	321.20	.92051	0000-0900, 1515-2400		320.48	85	320.50	71
9 20 72	2418	321.20	1.45914	0000-1200, 1915-2400		319.00	95	319.29	67
9 21 72	2418	321.20	1.45914	0000-0930, 1415-2400		320.21	76	320.21	76
9 22 72	2418	321.20	1.45914	0000-1130, 1845-2400		320.35	96	320.60	67
9 23 72	2418	321.20	1.45914	0000-1400, 1915-2400		320.44	96	320.86	75
9 24 72	2418	321.20	1.45914	0000-1300		320.61	96	320.94	52
9 25 72	2418	321.20	.91029	0000-0800, 2045-2400		321.67	93	322.21	45
9 26 72	2418	321.20	.91056	0000-1200, 2015-2400		320.98	96	321.40	63
9 27 72	2418	321.20	.91084	0000-0930, 1415-2400		320.90	73	320.92	71
9 28 72	2418	321.20	.91112	0000-2400		320.99	96	320.99	96
9 29 72	2418	321.20	.91139	0000-0900, 1915-2400		320.37	95	320.68	55
9 30 72	2418	321.20	.91167	0000-0900		320.32	96	320.80	35
MONTHLY AVERAGES						321.33 (30 DAYS),		321.56 (30 DAYS)	

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
10 1 72	4277	320.07	.91194	0000-1130		318.86	96	319.48	46
10 2 72	2418	321.20	.91222						
10 2 72	4296	320.34	.91222			320.99	72	0	0
10 3 72	4296	320.34	.91250	1645-2400		321.29	87	321.12	29
10 4 72	4296	320.34	.91277	0000-1200		321.07	95	321.17	46
10 5 72	4296	320.34	.91305	1815-2400		321.17	96	320.94	23
10 6 72	4296	320.34	.91333	0000-0900, 2345-2400		320.63	96	320.90	37
10 7 72	4296	320.34	.91361	0000-1100		320.68	94	321.05	43
10 8 72	4296	320.34	.91388			320.79	96	0	0
10 9 72	4296	320.34	.91416	0545-2400		322.25	96	322.43	73
10 10 72	4296	320.34	.91444	0000-0900, 1545-2400		322.36	72	322.37	66
10 11 72	4296	320.34	.91472	0000-0700		321.65	91	322.23	24
10 12 72	4296	320.34	.91500			321.59	96	0	0
10 13 72	4296	320.34	.91527			321.96	92	0	0
10 14 72	4296	320.34	.91555	0000-1200		321.61	94	322.05	45
10 15 72	4296	320.34	.91583	0045-2200		321.99	94	322.03	84
10 16 72	4296	320.34	.91611	0045-1230		322.16	96	322.49	45
10 17 72	4296	320.34	.91639	0745-1300, 2145-2400		321.57	92	321.59	30
10 18 72	4296	320.34	.91667	0000-0900, 2015-2400		321.50	69	321.56	49
10 19 72	4296	320.34	.91695	0000-1000		321.30	94	321.31	38
10 20 72	4296	320.34	.91723	0345-0930, 1445-2400		321.84	76	321.77	59
10 21 72	4296	320.34	.91751	0315-2400		321.89	94	321.92	81
10 22 72	4296	320.34	.91779	0000-2400		321.71	96	321.70	94
10 23 72	4296	320.34	.91807	0000-0900, 1945-2400		321.61	96	321.66	53
10 24 72	4296	320.34	.91835	0000-1200, 1845-2400		321.59	96	321.78	69
10 25 72	4296	320.34	.91863	0315-0930, 1945-2400		321.65	76	321.83	41
10 26 72	4296	320.34	.91891	0000-1030, 1845-2400		321.65	96	321.80	63
10 27 72	4296	320.34	.91919	0000-0930					
10 27 72	11081	322.37	.91919	1715-2400		321.95	72	321.97	64

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA	ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	
10 28 72	11081	322.37	.91947	0000-0930, 2015-2400	322.41	96	322.37	53	
10 29 72	11081	322.37	.91975	0000-2400	323.03	96	323.03	96	
10 30 72	11081	322.37	.92004	0000-1930	323.08	94	322.92	76	
10 31 72	11081	322.37	.92032	0715-2400	323.10	96	322.90	67	
MONTHLY AVERAGES					321.68 (31 DAYS),	321.83 (27 DAYS)			
11 1 72	11081	322.37	.92060	1445-2400	322.36	75	322.34	37	
11 2 72	11081	322.37	.92088	0000-0600	322.78	65	322.43	24	
11 3 72	11081	322.37	.92116	1045-1700, 2345-2400	322.85	52	323.00	22	
11 4 72	11081	322.37	.92145	0000-1200	322.72	96	323.03	48	
11 5 72	11081	322.37	.92173	0245-2400	322.65	96	322.68	85	
11 6 72	11081	322.37	.92201	0000-0400, 1715-2400	322.78	96	323.05	43	
11 7 72	11081	322.37	.92229	0000-0530	322.69	74	323.32	22	
11 8 72	11081	322.37	.92258		322.31	95	0	0	
11 9 72	11081	322.37	.92286	0000-0930					
11 9 72	4295	321.02	.92286	1515-2400	322.33	72	322.33	72	
11 10 72	4295	321.02	.92314	0000-0900	322.43	96	322.20	36	
11 11 72	4295	321.02	.92343	0245-1300	322.91	96	323.35	41	
11 12 72	4295	321.02	.92371	1145-2400	322.97	92	322.94	45	
11 13 72	4295	321.02	.92399	0000-1300, 1745-2400	322.60	95	322.64	76	
11 14 72	4295	321.02	.92428	0315-0930	322.82	76	322.53	24	
11 15 72	4295	321.02	.92456	0845-1930	323.44	96	323.30	43	
11 16 72	4295	321.02	.92485	0445-2330	323.45	96	323.33	75	
11 17 72	4295	321.02	.92513	1245-2000	323.16	96	322.58	29	
11 18 72	4295	321.02	.92542	1115-2400	323.06	96	322.96	51	
11 19 72	4295	321.02	.92570	0000-1000	322.79	96	322.88	40	
11 20 72	4295	321.02	.92599	1545-2400	323.38	74	322.99	33	
11 21 72	4295	321.02	.92627	0000-2400	322.80	94	322.80	94	

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	321.02 INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
11 22 72	4295	321.02	.92656	0000-1030, 1745-2400		322.98	83	323.03	67
11 23 72	4295	321.02	.92684	0000-2400		323.27	96	323.27	96
11 24 72	4295	321.02	.92713	0000-2400		323.36	96	323.36	96
11 25 72	4295	321.02	.92741	0000-0200, 0545-1200		323.22	96	323.47	33
11 26 72	4295	321.02	.92770	0345-1100, 1345-2400		323.70	96	323.91	70
11 27 72	4295	321.02	.92799	0000-0930, 2345-2400		324.01	75	323.92	39
11 28 72	4295	321.02	.92827	0000-2400		323.50	96	323.49	95
11 29 72	4295	321.02	.92856	0000-2400		323.36	96	323.36	96
11 30 72	4295	321.02	.92885	0000-2400		323.67	96	323.67	95
MONTHLY AVERAGES						323.01 (30 DAYS),	323.04 (29 DAYS)		
12 1 72	4295	321.02	.92913	0000-0900					
12 1 72	4276	320.26	.92913	1615-2400		323.25	70	323.26	67
12 2 72	4276	320.26	.92942	0000-2400		323.22	96	323.22	96
12 3 72	4276	320.26	.92971	0000-2400		323.69	96	323.69	96
12 4 72	4276	320.26	.92999	0000-2400		323.68	96	323.68	96
12 5 72	4276	320.26	.93028	0000-1000, 1915-2400		323.57	96	323.66	59
12 6 72	4276	320.26	.93057	0000-1200		323.57	96	323.59	48
12 7 72	4276	320.26	.93086	0000-2400		323.53	96	323.53	96
12 8 72	4276	320.26	.93115	0000-0900		323.61	74	323.52	36
12 9 72	4276	320.26	.93144	0000-1200, 1815-2400		323.89	96	323.99	71
12 10 72	4276	320.26	.93172	0000-2400		323.90	96	323.90	96
12 11 72	4276	320.26	.93201	0000-2400		323.83	96	323.83	96
12 12 72	4276	320.26	.93230	0000-2400		323.83	96	323.83	96
12 13 72	4276	320.26	.93259	0000-2400		324.18	96	324.18	96
12 14 72	4276	320.26	.93288	0000-0930, 1615-2400		324.12	71	324.11	69
12 15 72	4276	320.26	.93317	0000-2400		323.94	96	323.93	94
12 16 72	4276	320.26	.93346	0000-2400		324.18	96	324.18	96

TABLE 8 . DAILY AVERAGE MANOMETRIC CONCENTRATIONS WITH CONTINUOUS ANALYZER

1	2	3	4	5	6	7	8	9	10
DATE	WORKING REFERENCE TANK NO.	INDEX	RECORDER SCALE FACTOR	HOURS OF RECORD USED FOR STEADY DATA		ALL DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS	STEADY DATA MANO- METRIC CONC.	NO. OF COMPARI- SONS
12 17 72	4276	320.26	.93375	1615-2400		324.59	94	324.28	29
12 18 72	4276	320.26	.93404	0000-2400		324.18	96	324.18	96
12 19 72	4276	320.26	.93433	0000-0930,	1615-2400	324.17	71	324.17	69
12 20 72	4276	320.26	.93462	0000-2400		324.59	96	324.59	96
12 21 72	4276	320.26	.93491	0000-2400		324.72	96	324.72	96
12 22 72	4276	320.26	.93520	0000-0900					
12 22 72	10074	320.60	.93520	1645-2400		324.65	68	324.64	65
12 23 72	10074	320.60	.93549			324.89	96	0	0
12 24 72	10074	320.60	.93578	1815-2400		324.42	96	324.25	23
12 25 72	10074	320.60	.93607	0000-0400,	1715-2400	324.47	96	324.35	43
12 26 72	10074	320.60	.93637	0000-1200,	1915-2400	324.35	96	324.41	67
12 27 72	10074	320.60	.93666	1315-2400		324.71	56	324.80	43
12 28 72	10074	320.60	.93695	0000-1000		324.83	73	324.72	39
12 29 72	10074	320.60	.93724	0515-2400		324.72	96	324.57	75
12 30 72	10074	320.60	.93753	0000-0800		324.61	96	324.58	32
MONTHLY AVERAGES						324.13 (30 DAYS),		324.08 (29 DAYS)	

TABLE 9a. The Monthly Manometric Concentration of Atmospheric Carbon Dioxide (ppm)
at Mauna Loa Observatory
Calculated from All Data

1	2	3	4	5
Month	No. of Days	Average Concentration	No. of Days	Average Concentration
		<u>1971</u>		<u>1972</u>
JAN	31	322.84	31	323.34
FEB	28	323.22	29	324.24
MAR	31	323.90	31	324.54
APR	29	324.39	30	326.11
MAY	30	325.44	31	326.26
JUN	30	325.04	30	325.40
JUL	26	323.87	27	324.41
AUG	28	321.83	31	322.66
SEP	28	320.11	30	321.26
OCT	25	320.36	31	321.68
NOV	30	321.59	30	323.01
DEC	31	322.73	30	324.13
Average of Monthly Values		322.94		323.92

TABLE 9b. The Monthly Manometric Concentration of Atmospheric Carbon Dioxide (ppm)
at Mauna Loa Observatory
Calculated from Steady Data

1	2	3	4	5
Month	No. of Days	Average Concentration	No. of Days	Average Concentration
		<u>1971</u>		<u>1972</u>
JAN	29	322.60	30	323.36
FEB	28	323.05	29	324.24
MAR	29	323.65	27	324.49
APR	28	324.29	28	326.14
MAY	30	325.51	31	326.48
JUN	29	325.06	28	325.42
JUL	25	323.93	27	324.53
AUG	23	322.12	31	322.80
SEP	27	320.24	30	321.49
OCT	25	320.37	27	321.83
NOV	30	321.60	29	323.04
DEC	31	322.70	29	324.08
Average of Monthly Values		322.93		323.99

TABLE 10a. Twelve Month Running Mean Concentration of Atmospheric CO₂
at Mauna Loa Observatory
Calculated from all Available Data

Col. 1	2	3	4	5	6	7	8	9	10
Month	Concentration of CO ₂ (ppm)								
	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
JAN		316.56	317.47	317.81	318.59	320.02	321.58	322.69	323.41
FEB		316.64	317.52	317.85	318.66	320.19	321.69	322.77	323.48
MAR		316.74	317.51	317.73	318.73	320.38	321.78	322.80	323.58
APR		316.78	317.50	318.00	318.81	320.55	321.93	322.83	323.68
MAY		316.88	317.50	318.07	318.85	320.72	322.08	322.88	323.80
JUN		316.92	317.60	318.14	318.92	320.85	322.20	322.94	323.92
JUL		316.99	317.69	318.16	319.05	320.95	322.33	322.98	
AUG		317.05	317.73	318.21	319.19	321.09	322.39	323.07	
SEP		317.12	317.75	318.28	319.37	321.19	322.44	323.12	
OCT		317.20	317.79	318.33	319.53	321.33	322.43	323.27	
NOV	316.47	317.28	317.85	318.37	319.73	321.41	322.50	323.34	
DEC	316.49	317.37	317.86	318.49	319.86	321.50	322.58	323.36	

TABLE 10b. Twelve Month Running Mean Concentration of Atmospheric CO₂
at Mauna Loa Observatory
Calculated from Steady Data

Col. 1	2	3	4	5	6	7	8	9	10
Month	Concentration of CO ₂ (ppm)								
	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
JAN		316.60	317.38	317.80	318.68	320.04	321.38	322.57	323.47
FEB		316.65	317.42	317.86	318.75	320.17	321.50	322.65	323.53
MAR		316.71	317.41	317.94	318.84	320.34	321.60	322.69	323.64
APR		316.76	317.39	318.04	318.92	320.48	321.75	322.75	323.76
MAY		316.87	317.40	318.11	318.96	320.63	321.88	322.83	323.88
JUN		316.90	317.50	318.19	319.00	320.77	321.98	322.93	323.99
JUL		316.94	317.61	318.23	319.13	320.86	322.10	322.99	
AUG		316.99	317.67	318.28	319.27	320.96	322.19	323.09	
SEP		317.06	317.69	318.36	319.44	321.05	322.24	323.16	
OCT		317.14	317.74	318.40	319.60	321.17	322.25	323.31	
NOV	316.53	317.23	317.81	318.44	319.76	321.22	322.36	323.39	
DEC	316.52	317.32	317.82	318.57	319.88	321.32	322.46	323.42	

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I-145	5	8 JAN 71	1010	19.5N 155.6W	FSC	321.14	323.24		111	804	18
I-146	5	8 JAN 71	1010	19.5N 155.6W	FSC	323.09	325.62	324.43	111	804	18
I-147	5	27 JAN 71	1225	19.5N 155.6W	FSC	321.01	323.08		112	804	18
I-148	5	27 JAN 71	1225	19.5N 155.6W	FSC	320.88	322.92	323.00	112	804	18
I-149	5	16 FEB 71	0850	19.5N 155.6W	FSC	321.27	323.40		113	804	18
I-150	5	16 FEB 71	0850	19.5N 155.6W	FSC	321.40	323.56	323.48	113	804	18
I-151	5	22 FEB 71	0910	19.5N 155.6W	FSC	322.36			114	829	18
I-151	5	22 FEB 71	0910	19.5N 155.6W	FSC	322.24	324.65		114	829	18
I-153	5	22 FEB 71	0910	19.5N 155.6W	FSC	321.46			114	829	18
I-153	5	22 FEB 71	0910	19.5N 155.6W	FSC	321.46	323.63		114	829	18
I-154	5	22 FEB 71	0910	19.5N 155.6W	FSC	321.85			114	829	18
I-154	5	22 FEB 71	0910	19.5N 155.6W	FSC	321.59	323.95	324.08	114	829	18
I-155	5	8 MAR 71	0950	19.5N 155.6W	FSC	321.46			115	829	18
I-155	5	8 MAR 71	0950	19.5N 155.6W	FSC	321.34	323.56		115	829	18
I-156	5	8 MAR 71	0950	19.5N 155.6W	FSC	321.34			115	829	18
I-156	5	8 MAR 71	0950	19.5N 155.6W	FSC	321.34	323.48	323.52	115	829	18
I- 73	5	15 MAR 71	0950	19.5N 155.6W	FSC	321.46			116	832	18
I- 73	5	15 MAR 71	0950	19.5N 155.6W	FSC	321.32	323.55		116	832	18
I- 74	5	15 MAR 71	0950	19.5N 155.6W	FSC	321.60			116	832	18
I- 74	5	15 MAR 71	0950	19.5N 155.6W	FSC	321.46	323.72	323.63	116	832	18
I- 75	5	3 APR 71	1530	19.5N 155.6W	PRG	321.18			117	832	18
I- 75	5	3 APR 71	1530	19.5N 155.6W	PRG	321.05	323.22		117	832	18
I- 76	5	3 APR 71	1535	19.5N 155.6W	PRG	321.60			117	832	18
I- 76	5	3 APR 71	1535	19.5N 155.6W	PRG	321.60	323.80		117	832	18
I- 77	5	3 APR 71	1542	19.5N 155.6W	PRG	321.35			117	833	18
I- 77	5	3 APR 71	1542	19.5N 155.6W	PRG	321.35	323.50		117	833	18
I- 78	5	3 APR 71	1533	19.5N 155.6W	FSC	321.21			117	833	18
I- 78	5	3 APR 71	1533	19.5N 155.6W	FSC	321.21	323.33		117	833	18
I- 79	5	3 APR 71	1538	19.5N 155.6W	FSC	321.21			117	833	18
I- 79	5	3 APR 71	1538	19.5N 155.6W	FSC	321.21	232.33		117	833	18

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I- 80	5	3 APR 71	1547	19.5N 155.6W	FSC	321.35			117	833	18
I- 80	5	3 APR 71	1547	19.5N 155.6W	FSC	321.35	323.50	323.45	117	833	18
I- 81	5	16 APR 71	1415	19.5N 155.6W	FSC	321.76			118	833	18
I- 81	5	16 APR 71	1415	19.5N 155.6W	FSC	321.76	324.00		118	833	18
I- 82	5	16 APR 71	1415	19.5N 155.6W	FSC	321.62			118	833	18
I- 82	5	16 APR 71	1415	19.5N 155.6W	FSC	321.62	323.83	323.91	118	833	18
I- 83	5	3 MAY 71	0830	19.5N 155.6W	FSC	322.87			119	833	18
I- 83	5	3 MAY 71	0830	19.5N 155.6W	FSC	322.87	325.35		119	833	18
I- 84	5	3 MAY 71	0830	19.5N 155.6W	FSC	322.87			119	833	18
I- 84	5	3 MAY 71	0830	19.5N 155.6W	FSC	322.87	325.35	325.35	119	833	18
I-145	5	17 MAY 71	1313	19.5N 155.6W	FSC	322.34			120	841	18
I-145	5	17 MAY 71	1313	19.5N 155.6W	FSC	322.34	324.71		120	841	18
I-146	5	17 MAY 71	1313	19.5N 155.6W	FSC	322.34			120	841	18
I-146	5	17 MAY 71	1313	19.5N 155.6W	FSC	322.62	324.88	324.80	120	841	18
I-147	5	4 JUN 71	0850	19.5N 155.6W	FSC	321.79			121	841	18
I-147	5	4 JUN 71	0850	19.5N 155.6W	FSC	322.07	324.21		121	841	18
I-148	5	4 JUN 71	0850	19.5N 155.6W	FSC	322.90			121	841	18
I-148	5	4 JUN 71	0850	19.5N 155.6W	FSC	322.90	325.39	324.80	121	841	18
I-149	5	14 JUN 71	1345	19.5N 155.6W	FSC	321.22			122	836	18
I-149	5	14 JUN 71	1345	19.5N 155.6W	FSC	321.08	323.26		122	836	18
I-150	5	14 JUN 71	1345	19.5N 155.6W	FSC	321.08			122	836	18
I-150	5	14 JUN 71	1345	19.5N 155.6W	FSC	321.08	323.17	323.22	122	836	18
I-151	5	2 JUL 71	1547	19.5N 155.6W	FSC	321.66			123	846	19
I-151	5	2 JUL 71	1547	19.5N 155.6W	FSC	321.76			123	846	19
I-151	5	2 JUL 71	1547	19.5N 155.6W	FSC	321.51	323.85		123	851	20
I-152	5	2 JUL 71	1547	19.5N 155.6W	FSC	321.57			123	846	19
I-152	5	2 JUL 71	1547	19.5N 155.6W	FSC	321.57			123	846	19
I-152	5	2 JUL 71	1547	19.5N 155.6W	FSC	321.44	323.72	323.78	123	851	20

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I-153	5	12 JUL 71	1345	19.5N 155.6W	FSC	322.04			124	846	19
I-153	5	12 JUL 71	1345	19.5N 155.6W	FSC	322.13			124	846	19
I-153	5	12 JUL 71	1345	19.5N 155.6W	FSC	322.22	324.45		124	851	20
I-154	5	12 JUL 71	1345	19.5N 155.6W	FSC	322.13			124	846	19
I-154	5	12 JUL 71	1345	19.5N 155.6W	FSC	322.22	324.51	324.48	124	846	19
I-155	5	2 AUG 71	1530	19.5N 155.6W	FSC	321.01			125	846	19
I-155	5	2 AUG 71	1530	19.5N 155.6W	FSC	321.10			125	846	19
I-155	5	2 AUG 71	1530	19.5N 155.6W	FSC	321.08	323.14		125	851	20
I-156	5	2 AUG 71	1530	19.5N 155.6W	FSC	321.29			125	846	19
I-156	5	2 AUG 71	1530	19.5N 155.6W	FSC	321.29			125	846	19
I-156	5	2 AUG 71	1530	19.5N 155.6W	FSC	321.37	323.46	323.30	125	851	20
I- 73	5	17 AUG 71	1330	19.5N 155.6W	FSC	319.04			126	847	19
I- 73	5	17 AUG 71	1330	19.5N 155.6W	FSC	319.13			126	847	19
I- 73	5	17 AUG 71	1330	19.5N 155.6W	FSC	318.73	320.60		126	851	20
I- 74	5	17 AUG 71	1330	19.5N 155.6W	FSC	319.22			126	847	19
I- 74	5	17 AUG 71	1330	19.5N 155.6W	FSC	319.32			126	847	19
I- 74	5	17 AUG 71	1330	19.5N 155.6W	FSC	319.23	320.95	320.78	126	851	20
I- 75	5	3 SEP 71	0900	19.5N 155.6W	FSC	319.22			127	847	19
I- 75	5	3 SEP 71	0900	19.5N 155.6W	FSC	319.32			127	847	19
I- 75	5	3 SEP 71	0900	19.5N 155.6W	FSC	319.01	320.86		127	851	20
I- 76	5	3 SEP 71	0900	19.5N 155.6W	FSC	319.32			127	847	19
I- 76	5	3 SEP 71	0900	19.5N 155.6W	FSC	319.22			127	847	19
I- 76	5	3 SEP 71	0900	19.5N 155.6W	FSC	319.37	321.00	320.93	127	851	20
I- 77	5	17 SEP 71	1335	19.5N 155.6W	FSC	318.94			128	847	19
I- 77	5	17 SEP 71	1335	19.5N 155.6W	FSC	318.94			128	847	19
I- 77	5	17 SEP 71	1335	19.5N 155.6W	FSC	318.80	320.50		128	851	20
I- 78	5	17 SEP 71	1335	19.5N 155.6W	FSC	318.66			128	847	19
I- 78	5	17 SEP 71	1335	19.5N 155.6W	FSC	318.57			128	847	19
I- 78	5	17 SEP 71	1335	19.5N 155.6W	FSC	318.52	320.12	320.31	128	851	20

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time Lst	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I- 79	5	1 NOV 71	0845	19.5N 155.6W	FSC	319.41			129	848	19
I- 79	5	1 NOV 71	0845	19.5N 155.6W	FSC	319.50			129	848	19
I- 79	5	1 NOV 71	0845	19.5N 155.6W	FSC	318.52	320.80		129	851	20
I- 80	5	1 NOV 71	0845	19.5N 155.6W	FSC	319.41			129	848	19
I- 80	5	1 NOV 71	0845	19.5N 155.6W	FSC	319.22			129	848	19
I- 80	5	1 NOV 71	0845	19.5N 155.6W	FSC	319.23	320.99	320.90	129	851	20
I- 81	5	17 NOV 71	0845	19.5N 155.6W	FSC	321.19			130	848	19
I- 81	5	17 NOV 71	0845	19.5N 155.6W	FSC	321.19			130	848	19
I- 81	5	17 NOV 71	0845	19.5N 155.6W	FSC	321.22	323.32		130	852	20
I- 82	5	17 NOV 71	0845	19.5N 155.6W	FSC	320.34			130	848	19
I- 82	5	17 NOV 71	0845	19.5N 155.6W	FSC	320.16			130	848	19
I- 82	5	17 NOV 71	0845	19.5N 155.6W	FSC	320.58	322.29	322.80	130	852	20
I- 83	5	6 DEC 71	1450	19.5N 155.6W	FSC	320.63			131	848	19
I- 83	5	6 DEC 71	1450	19.5N 155.6W	FSC	320.81			131	848	19
I- 83	5	6 DEC 71	1450	19.5N 155.6W	FSC	320.65	322.71		131	852	20
I- 84	5	6 DEC 71	1450	19.5N 155.6W	FSC	320.53			131	848	19
I- 84	5	6 DEC 71	1450	19.5N 155.6W	FSC	320.53			131	848	19
I- 84	5	6 DEC 71	1450	19.5N 155.6W	FSC	320.51	322.50	322.60	131	852	20
I-145	5	14 DEC 71	0855	19.5N 155.6W	FSC	320.78			132	868	20
I-145	5	14 DEC 71	0855	19.5N 155.6W	FSC	320.78	322.80		132	868	20
I-146	5	14 DEC 71	0855	19.5N 155.6W	FSC	320.85			132	868	20
I-146	5	14 DEC 71	0855	19.5N 155.6W	FSC	320.85	322.89	322.84	132	868	20
I-147	5	29 DEC 71	0855	19.5N 155.6W	FSC	320.99			133	868	20
I-147	5	29 DEC 71	0855	19.5N 155.6W	FSC	320.92	323.03		133	868	20
I-148	5	29 DEC 71	0855	19.5N 155.6W	FSC	320.64			133	868	20
I-148	5	29 DEC 71	0855	19.5N 155.6W	FSC	320.78	322.72	322.88	133	868	20
I-149	5	14 JAN 72	1320	19.5N 155.6W	FSC	321.28			134	868	20
I-149	5	14 JAN 72	1320	19.5N 155.6W	FSC	321.35	323.46		134	868	20
I-150	5	14 JAN 72	1320	19.5N 155.6W	FSC	321.28			134	868	20
I-150	5	14 JAN 72	1320	19.5N 155.6W	FSC	321.35	323.46	323.46	134	868	20

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I-187	5	1 FEB 72	0820	19.5N 155.6W	FSC	322.11			135	876	20
I-187	5	1 FEB 72	0820	19.5N 155.6W	FSC	321.90	324.29		135	876	20
I-188	5	1 FEB 72	0920	19.5N 155.6W	FSC	322.18			135	876	20
I-188	5	1 FEB 72	0820	19.5N 155.6W	FSC	322.11	324.46	324.38	135	876	20
I-189	5	14 FEB 72	0850	19.5N 155.6W	FSC	322.47			136	876	20
I-189	5	14 FEB 72	0850	19.5N 155.6W	FSC	322.83	325.07		136	876	20
I-190	5	14 FEB 72	0850	19.5N 155.6W	FSC	322.61			136	876	20
I-190	5	14 FEB 72	0850	19.5N 155.6W	FSC	322.61	325.04	325.06	136	876	20
I-191	5	2 MAR 72	0947	19.5N 155.6W	FSC	321.18			137	876	20
I-191	5	2 MAR 72	0947	19.5N 155.6W	FSC	321.39	323.41		137	876	20
I-192	5	2 MAR 72	0947	19.5N 155.6W	FSC	321.39			137	876	20
I-192	5	2 MAR 72	0947	19.5N 155.6W	FSC	321.25	323.46	323.44	137	876	20
I-175	5	15 MAR 72	0820	19.5N 155.6W	FSC	323.76			138	883	20
I-175	5	15 MAR 72	0820	19.5N 155.6W	FSC	323.68	326.39		138	883	20
I-176	5	15 MAR 72	0820	19.5N 155.6W	FSC	323.76			138	883	20
I-176	5	15 MAR 72	0820	19.5N 155.6W	FSC	323.76	326.43	326.41	138	883	20
I-225	5	1 APR 72	1255	19.5N 155.6W	FSC	322.87			139	883	20
I-225	5	1 APR 72	1255	19.5N 155.6W	FSC	323.03	325.45		139	883	20
I-226	5	1 APR 72	1255	19.5N 155.6W	FSC	323.03			139	883	20
I-226	5	1 APR 72	1255	19.5N 155.6W	FSC	322.95	325.50	325.48	139	883	20
I-227	5	13 APR 72	0815	19.5N 155.6W	FSC	323.92			140	883	20
I-227	5	13 APR 72	0815	19.5N 155.6W	FSC	323.92	326.63		140	883	20
I-228	5	13 APR 72	0815	19.5N 155.6W	FSC	323.92			140	883	20
I-228	5	13 APR 72	0815	19.5N 155.6W	FSC	324.00	326.68	326.66	140	883	20
I- 73	5	4 MAY 72	0840	19.5N 155.6W	FSC	323.99			141	884	20
I- 73	5	4 MAY 72	0840	19.5N 155.6W	FSC	324.07	326.76		141	884	20
I- 74	5	4 MAY 72	0840	19.5N 155.6W	FSC	324.15			141	884	20
I- 74	5	4 MAY 72	0840	19.5N 155.6W	FSC	324.15	326.91	326.84	141	884	20

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I- 75	5	17 MAY 72	1605	19.5N 155.6W	FSC	322.62			142	884	20
I- 75	5	17 MAY 72	1605	19.5N 155.6W	FSC	322.54	325.00		142	884	20
I- 76	5	17 MAY 72	1605	19.5N 155.6W	FSC	322.62			142	884	20
I- 76	5	17 MAY 72	1605	19.5N 155.6W	FSC	322.70	325.10	325.05	142	884	20
I- 77	5	31 MAY 72	1510	19.5N 155.6W	FSC	323.99			143	884	20
I- 77	5	31 MAY 72	1510	19.5N 155.6W	FSC	323.99	326.71		143	884	20
I- 78	5	31 MAY 72	1510	19.5N 155.6W	FSC	323.99			143	884	20
I- 78	5	31 MAY 72	1510	19.5N 155.6W	FSC	323.91	326.67	326.69	143	884	20
I- 79	5	13 JUN 72	0810	19.5N 155.6W	FSC	323.53			144	904	21
I- 79	5	13 JUN 72	0810	19.5N 155.6W	FSC	323.53	326.15		144	904	21
I- 80	5	13 JUN 72	0810	19.5N 155.6W	FSC	323.28			144	904	21
I- 80	5	13 JUN 72	0810	19.5N 155.6W	FSC	323.36	325.90	326.02	144	904	21
I- 80	5	26 JUL 72	0108	19.5N 155.6W	DM	322.79			148	904	21
I- 81	5	26 JUL 72	0108	19.5N 155.6W	DM	322.79	325.25		148	904	21
I- 82	5	25 JUL 72	2004	19.5N 155.6W	DM	322.30			147	904	21
I- 82	5	25 JUL 72	2004	19.5N 155.6W	DM	322.30	324.65		147	904	21
I- 83	5	25 JUL 72	2006	19.5N 155.6W	DM	321.73			147	904	21
I- 83	5	25 JUL 72	2006	19.5N 155.6W	DM	321.73	323.96		147	904	21
I- 84	5	25 JUL 72	2008	19.5N 155.6W	DM	321.89			147	904	21
I- 84	5	25 JUL 72	2008	19.5N 155.6W	DM	321.89	324.16		147	904	21
I- 13	5	25 JUL 72	1510	19.5N 155.6W	DM	321.08			145	889	21
I- 13	5	25 JUL 72	1510	19.5N 155.6W	DM	321.16	323.22	324.25	145	889	21
I- 14	5	26 JUL 72	0106	19.5N 155.6W	DM	322.30			146	889	21
I- 14	5	26 JUL 72	0106	19.5N 155.6W	DM	322.30	324.65		146	889	21
I- 15	5	26 JUL 72	0108	19.5N 155.6W	DM	322.22			146	889	21
I- 15	5	26 JUL 72	0108	19.5N 155.6W	DM	322.22	324.56	324.60	146	889	21
I-145	5	17 AUG 72	1530	19.5N 155.6W	FSC	321.32			149	905	21
I-145	5	17 AUG 72	1530	19.5N 155.6W	FSC	321.32	323.46		149	905	21
I-146	5	17 AUG 72	1530	19.5N 155.6W	FSC	321.24			149	905	21
I-146	5	17 AUG 72	1530	19.5N 155.6W	FSC	321.16	323.31	323.38	149	905	21

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I-147	5	1 SEP 72	1240	19.5N 155.6W	MG	320.83			150	905	21
I-147	5	1 SEP 72	1240	19.5N 155.6W	MG	320.58	322.70		150	905	21
I-148	5	1 SEP 72	1240	19.5N 155.6W	MG	321.83			150	905	21
I-148	5	1 SEP 72	1240	19.5N 155.6W	MG	320.83	322.86	322.78	150	905	21
I-149	5	19 SEP 72	1620	19.5N 155.6W	FSC	318.78			151	905	21
I-149	5	19 SEP 72	1620	19.5N 155.6W	FSC	318.78	320.37		151	905	21
I-150	5	19 SEP 72	1620	19.5N 155.6W	FSC	318.86			151	905	21
I-150	5	19 SEP 72	1620	19.5N 155.6W	FSC	318.86	320.46	320.42	151	905	21
I-151	5	29 SEP 72	0845	19.5N 155.6W	FSC	388.23	405.00		152	923	21
I-152	5	29 SEP 72	0845	19.5N 155.6W	FSC	319.27			152	923	21
I-152	5	29 SEP 72	0845	19.5N 155.6W	FSC	319.19	320.91	362.96	152	923	21
I-153	5	18 OCT 72	1650	19.5N 155.6W	FSC	319.68			153	923	21
I-153	5	18 OCT 72	1650	19.5N 155.6W	FSC	319.68	321.46		153	923	21
I-154	5	18 OCT 72	1650	19.5N 155.6W	FSC	319.76			153	923	21
I-154	5	18 OCT 72	1650	19.5N 155.6W	FSC	319.84	321.61	321.54	153	923	21
I-155	5	30 OCT 72	1420	19.5N 155.6W	FSC	320.82			154	923	21
I-155	5	30 OCT 72	1420	19.5N 155.6W	FSC	320.90	322.90		154	923	21
I-156	5	30 OCT 72	1420	19.5N 155.6W	FSC	320.82			154	923	21
I-156	5	30 OCT 72	1420	19.5N 155.6W	FSC	320.66	322.75	322.82	154	923	21
I- 73	5	14 NOV 72	0830	19.5N 155.6W	FSC	320.74			155		22
I- 73	5	14 NOV 72	0830	19.5N 155.6W	FSC	320.74	322.75		155		22
I- 74	5	14 NOV 72	0830	19.5N 155.6W	FSC	320.74			155		22
I- 74	5	14 NOV 72	0830	19.5N 155.6W	FSC	320.74	322.75	322.75	155		22
I- 75	5	27 NOV 72	1730	19.5N 155.6W	FSC	322.06			156		22
I- 75	5	27 NOV 72	1730	19.5N 155.6W	FSC	321.89	324.26		156		22
I- 76	5	27 NOV 72	1730	19.5N 155.6W	FSC	322.22			156		22
I- 76	5	27 NOV 72	1730	19.5N 155.6W	FSC	322.06	324.46	324.36	156		22
I- 79	5	14 DEC 72	0900	19.5N 155.6W	MG	322.06			157		22
I- 79	5	14 DEC 72	0900	19.5N 155.6W	MG	322.06	324.36		157		22

TABLE 11. CONCENTRATIONS OF FLASK SAMPLES TAKEN AT MAUNA LOA OBSERVATORY

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	6	7	8	9	10	11	12
Flask No.	Vol.	Date	Time LST	Position	Obsr	Index	Manometric		Field Sheet No.	Analysis Sheet No.	Report
							Flask Conc.	Daily Average			
I- 80	5	14 DEC 72	0900	19.5N 155.6W	MG	321.98			157		22
I- 80	5	14 DEC 72	0900	19.5N 155.6W	MG	321.89	324.22	324.29	157		22
I- 77	5	3 JAN 73	1515	19.5N 155.6W	FSC	322.53			158	949	22
I- 77	5	3 JAN 73	1515	19.5N 155.6W	FSC	322.45	324.89		158	949	22
I- 78	5	3 JAN 73	1515	19.5N 155.6W	FSC	322.36			158	949	22
I- 78	5	3 JAN 73	1515	19.5N 155.6W	FSC	322.36	324.73	324.81	158	949	22
I- 81	5	15 JAN 73	0900	19.5N 155.6W	FSC	322.94			159	949	22
I- 81	5	15 JAN 73	0900	19.5N 155.6W	FSC	322.86	325.39		159	949	22
I- 82	5	15 JAN 73	0900	19.5N 155.6W	FSC	325.77			159	949	22
I- 82	5	15 JAN 73	0900	19.5N 155.6W	FSC	322.77	325.23	325.31	159	949	22
I- 83	5	30 JAN 73	1610	19.5N 155.6W	FSC	323.02			160	949	22
I- 83	5	30 JAN 73	1610	19.5N 155.6W	FSC	323.02	325.53		160	949	22
I- 84	5	30 JAN 73	1610	19.5N 155.6W	FSC	323.10			160	949	22
I- 84	5	30 JAN 73	1610	19.5N 155.6W	FSC	323.02	325.58	323.56	160	949	22
I-145	5	16 FEB 73	1700	19.5N 155.6W	FSC	323.10			161	950	22
I-145	5	16 FEB 73	1700	19.5N 155.6W	FSC	322.94	325.53		161	950	22
I-145	5	16 FEB 73	1700	19.5N 155.6W	FSC	322.94			161	950	22
I-146	5	16 FEB 73	1700	19.5N 155.6W	FSC	322.94	325.43	325.48	161	950	22
I-147	5	27 FEB 73	0700	19.5N 155.6W	FSC	323.59			162	950	22
I-147	5	27 FEB 73	0700	19.5N 155.6W	FSC	323.51	326.18		162	950	22
I-148	5	27 FEB 73	0700	19.5N 155.6W	FSC	323.51			162	950	22
I-148	5	27 FEB 73	0700	19.5N 155.6W	FSC	323.51	326.13	326.16	162	950	22
I-149	5	16 MAR 73	1615	19.5N 155.6W	FSC	323.92			163	950	22
I-149	5	16 MAR 73	1615	19.5N 155.6W	FSC	323.84	326.58		163	950	22
I-150	5	16 MAR 73	1615	19.5N 155.6W	FSC	323.84			163	950	22
I-150	5	16 MAR 73	1615	19.5N 155.6W	FSC	323.84	326.53	326.56	163	950	22

TABLE 12. Atmospheric Carbon Dioxide Concentration at Mauna Loa
from Continuous Analyzer at Times of Flask Sampling

Col. 1	2	3	4	5	6	7	8
Date	Time LST	Observed Scale Difference	Recorder Scale Factor	Reference Tank		Air Index	Manometric Concentration
				Number	Index		
8 JAN 71	1010	1.1	1.12817	11076	319.91	321.15	323.25
27 JAN 71	1225	-4.7	1.13118	4276	326.59	321.27	323.40
16 FEB 71	0850	-4.7	1.13436	4276	326.59	321.26	323.39
22 FEB 71	0910	-1.7	1.13531	7362	322.76	320.83	322.86
8 MAR 71	0950	-1.4	1.13756	7362	322.76	321.17	323.28
15 MAR 71	0950	-2.7	1.13868	7362	322.76	319.69	321.47
3 APR 71	1530	-0.6	1.14174	1008	322.14	321.45	323.62
3 APR 71	1533	-0.6	1.14174	1008	322.14	321.45	323.62
3 APR 71	1535	-0.6	1.14174	1008	322.14	321.45	323.62
3 APR 71	1538	-0.6	1.14174	1008	322.14	321.45	323.62
3 APR 71	1542	-0.6	1.14174	1008	322.14	321.45	323.62
3 APR 71	1547	-0.6	1.14174	1008	322.14	321.45	323.62
16 APR 71	1415	-1.2	1.14385	11082	322.92	321.55	323.74
3 MAY 71	0830	0.0	1.14661	11082	322.92	322.92	325.41
17 MAY 71	1313	3.6	1.14889	11082	318.94	323.08	325.61
4 JUN 71	0850	4.5	0.90400	3759	318.94	323.01	325.52
14 JUN 71	1345	3.5	0.91375	4296	318.46	321.66	323.87
2 JUL 71	1547	2.2	1.00678	4296	318.46	320.67	322.67
12 JUL 71	1345	2.5	0.97214	2419	319.33	321.76	324.00
2 AUG 71	1530	1.9	0.96959	2419	319.33	321.17	323.28
17 AUG 71	1330	-0.1	0.97264	2419	318.74	318.64	320.19
3 SEP 71	0900	-0.8	0.97611	2418	319.47	318.69	320.26
17 SEP 71	1335	-1.3	0.97899	2418	319.47	318.20	319.66
1 NOV 71	0845	-1.6	0.93965	181	320.92	319.42	321.15
17 NOV 71	0845	-0.6	0.94042	11081	320.89	320.33	322.25
6 DEC 71	1450	-0.5	0.94132	181	320.92	320.50	322.46
14 DEC 71	0855	-0.6	0.94170	7362	321.65	321.08	323.17
29 DEC 71	0855	-0.6	0.94242	7362	321.65	321.08	323.17
14 JAN 72	1320	-1.5	0.94319	7355	322.61	321.20	323.31
1 FEB 72	0820	0.0	0.94405	4276	322.05	322.05	324.35
14 FEB 72	0850	0.3	0.94467	4276	322.05	322.33	324.69

TABLE 12. Atmospheric Carbon Dioxide Concentration at Mauna Loa
from Continuous Analyzer at Times of Flask Sampling

Col. 1	2	3	4	5	6	7	8
Date	Time LST	Observed Scale Difference	Recorder Scale Factor	Reference Number	Tank Index	Air Index	Manometric Concentration
2 MAR 72	0947	-0.7	0.94549	2421	321.85	321.19	323.30
15 MAR 72	0820	1.5	0.94612	2407	322.07	323.49	326.10
1 APR 72	1255	1.9	0.94694	2407	322.07	323.87	326.57
13 APR 72	0815	2.8	0.94752	2419	320.98	323.63	326.28
4 MAY 72	0840	2.7	0.94853	4286	321.49	324.05	326.79
17 MAY 72	1605	1.4	0.94916	4286	321.49	322.82	325.29
31 MAY 72	1570	2.4	0.94984	1008	321.55	323.83	326.52
13 JUN 72	0810	1.6	0.97602	1008	321.55	323.11	325.64
17 AUG 72	1530	1.4	0.92774	4277	320.07	321.37	323.52
1 SEP 72	1240	0.6	0.92444	4277	320.07	320.62	322.61
19 SEP 72	1620	-2.6	0.92051	2418	321.20	318.81	320.40
29 SEP 72	0845	-2.3	0.91139	2418	321.20	319.10	320.76
18 OCT 72	1650	-1.1	0.91667	4296	320.34	319.33	321.04
30 OCT 72	1420	-1.7	0.92004	11081	322.23	320.67	322.67
14 NOV 72	0830	-0.5	0.92428	4295	321.01	320.55	322.52
27 NOV 72	1730	0.9	0.92799	4295	321.01	321.85	324.11
14 DEC 72	0900	2.0	0.93288	4276	320.26	322.13	324.45

TABLE 13. Comparison of Continuous Analyzer and Flask Samples
at Mauna Loa Observatory

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	1	2	3	4	5
Date	Time LST	CO ₂ Concentration (ppm)		Departure (ppm)	Date	Time LST	CO ₂ Concentration (ppm)		Departure (ppm)
		Flask	Analyzer				Flask	Analyzer	
8 JAN 71	1010	323.24	323.25	0.01	2 JUL 71	1547	323.85	322.67	-1.18
		325.62		-2.37			323.72		-1.05
27 JAN 71	1225	323.08	323.40	0.32	12 JUL 71	1345	324.45	324.00	-0.45
		322.92		0.48			324.51		-0.51
16 FEB 71	0850	323.40	323.39	-0.01	2 AUG 71	1530	323.14	323.28	0.14
		323.56		-0.17			323.46		-0.18
22 FEB 71	0910	324.65	322.86	-1.79	17 AUG 71	1330	320.60	320.19	-0.41
		323.63		-0.77			320.95		-0.76
		323.95		-1.09	3 SEP 71	0900	320.86	320.26	-0.60
8 MAR 71	0950	323.56	323.28	-0.28			321.00		-0.74
		323.48		-0.20	17 SEP 71	1335	320.50	319.66	-0.84
15 MAR 71	0950	323.55	321.47	-2.08			320.12		-0.46
		323.72		-2.25	1 NOV 71	0845	320.80	321.15	0.35
3 APR 71	1530	323.22	323.62	0.40			320.99		0.16
	1533	323.33		0.29	17 NOV 71	0845	323.32	322.25	-1.07
	1535	323.80		-0.18			322.29		-0.04
	1538	323.33		0.29	6 DEC 71	1450	322.71	322.46	-0.25
	1542	323.50		0.12			322.50		-0.04
	1547	323.50		0.12	14 DEC 71	0855	322.80	323.17	0.37
16 APR 71	1415	324.00	323.74	-0.26			322.89		0.28
		323.83		-0.09	29 DEC 71	0855	323.03	323.17	0.14
3 MAY 71	0830	325.35	325.41	0.06			322.72		0.45
		325.35		0.06	14 JAN 72	1320	323.46	323.31	-0.15
17 MAY 71	1313	324.71	325.61	0.90			323.46		-0.15
		324.88		0.73	1 FEB 72	0820	324.29	324.35	0.06
4 JUN 71	0850	324.21	325.52	1.31			324.46		-0.11
		325.39		0.13	14 FEB 72	0850	325.07	324.69	-0.38
14 JUN 71	1345	323.26	323.87	0.61			325.04		-0.35
		323.17		0.70	2 MAR 72	0947	323.41	323.30	-0.11
							323.46		-0.16

TABLE 13. Comparison of Continuous Analyzer and Flask Samples
at Mauna Loa Observatory

MAUNA LOA CARBON DIOXIDE PROJECT

Col. 1	2	3	4	5	1	2	3	4	5
Date	Time LST	CO ₂ Concentration (ppm)		Departure (ppm)	Date	Time LST	CO ₂ Concentration (ppm)		Departure (ppm)
		Flask	Analyzer				Flask	Analyzer	
15 MAR 72	0820	326.39	326.10	-0.29	27 NOV 72	1730	324.26	324.11	-0.15
		326.43		-0.33			324.46		-0.35
1 APR 72	1255	325.45	326.57	1.12	14 DEC 72	0900	324.36	324.45	0.09
		325.50		1.07			324.22		0.23
13 APR 72	0815	326.63	326.28	-0.35					
		326.68		-0.40					
4 MAY 72	0840	326.76	326.79	0.03					
		326.91		-0.12					
17 MAY 72	1605	325.00	325.29	0.29					
		325.10		0.19					
31 MAY 72	1510	326.71	326.52	-0.19					
		326.67		-0.15					
13 JUN 72	0810	326.15	325.64	-0.51					
		325.90		-0.26					
17 AUG 72	1530	323.46	323.52	0.06					
		323.31		0.21					
1 SEP 72	1240	322.70	322.61	-0.09					
		322.86		-0.25					
19 SEP 72	1620	320.37	320.40	0.03					
		320.46		-0.06					
29 SEP 72	0845	405.00	320.76	-84.24					
		320.91		-0.15					
18 OCT 72	1650	321.46	321.04	-0.42					
		321.61		-0.57					
30 OCT 72	1420	322.90	322.67	-0.23					
		322.75		-0.08					
14 NOV 72	0830	322.75	322.52	-0.23					
		322.75		-0.23					