

## Chapter 1/Scope 1- Appendices

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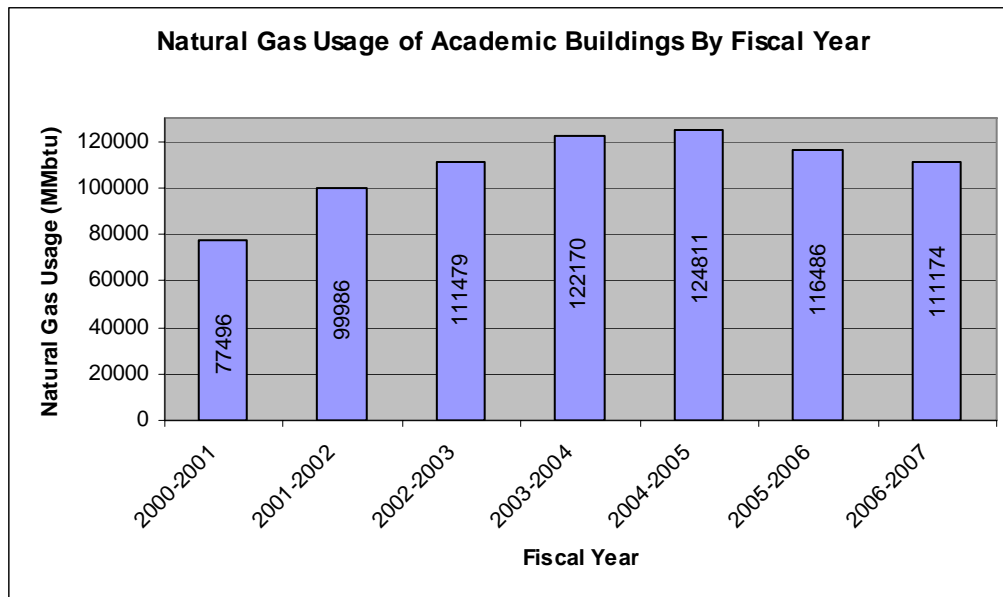
Appendix 12: Scope 1 data collection form: Refrigeration and other chemicals

## APPENDIX 1: Natural gas usage for campus academic buildings

\* The following table and figure display the natural gas usage of the campus academic buildings in fiscal years 2001-2007.

Source: Chris Hatfield October 18, 2007

Natural Gas: Academic Buildings		
Fiscal Year	therms	mmbtu
2000-2001	774969	77497
2001-2002	999860	99986
2002-2003	1114793	111479
2003-2004	1221705	122171
2004-2005	1248119	124812
2005-2006	1164869	116487
2006-2007	1111741	111174

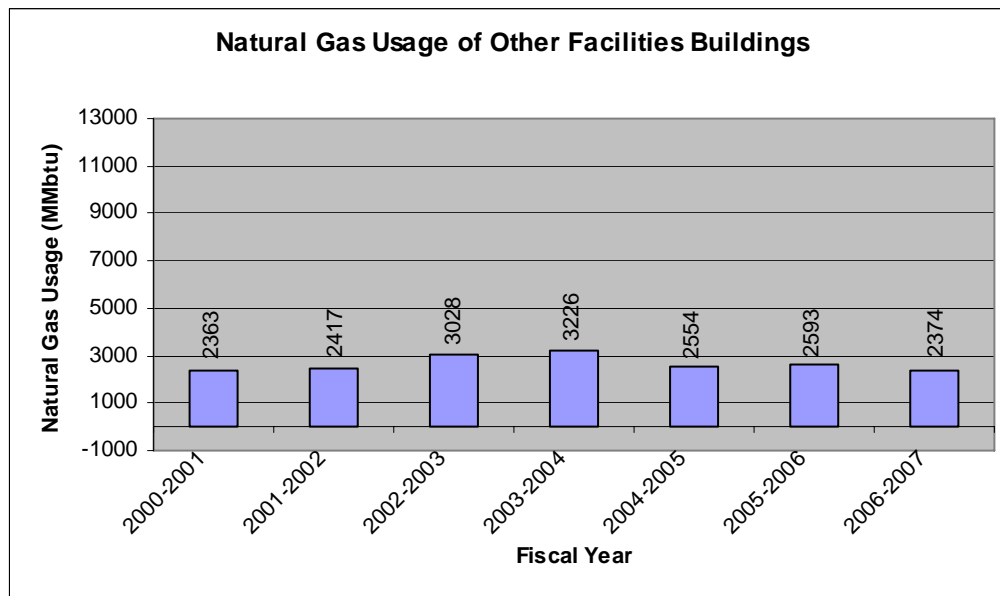


## APPENDIX 2: Natural gas usage for facilities buildings

\* The following table, figure, and spreadsheets display the natural gas usage of the facilities building, Shorewood Pro Shop, Language House, Chancellor's House, University Union, and Outing Center in fiscal years 2001-2007.

Source: Chris Hatfield October 18, 2007

Natural Gas: Other Buildings		
Fiscal Year	therms	mmbtu
2000-2001	23633	2363
2001-2002	24171	2417
2002-2003	30283	3028
2003-2004	32260	3226
2004-2005	25542	2554
2005-2006	25936.9	2594
2006-2007	23740.7	2374



### APPENDIX 3: Natural gas usage spreadsheets

PO 63		GAS 2000-01												TOTAL COSTS	TOTAL THERMS
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE		
PROJECT 6606-11	DATE		6/15-7/21	8/14-9/14	9/14-10/13	10/13-11/13	11/13-12/13	12/13-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14	5/14-6/13		
625439	COST		\$116.05	\$28.49	\$144.58	\$169.90	\$1,021.01	\$376.06	\$1,069.71	\$1,207.07	\$ 741.20	\$400.93	\$33.53	\$5,308.53	
	THERM		152	20	210	231	1,350	397	1,162	1,585	1,020	579	28		6,734
PRO SHOP	DATE	5/15-6/15	6/5-7/17	7/17-8/14	8/14-9/14	9/14-10/13	10/13-11/13	11/13-12/13	12/13-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14		
303417	COST	\$39.56	\$38.13	\$21.61	\$29.59	\$88.25	\$138.75	\$530.28	\$637.74	\$565.94	\$444.69	\$384.96	\$181.07	\$3,100.57	
METER 112431	THERM	48	38	7	22	117	183	690	687	605	569	518	247		3,731
LANGUAGE HOUSE	DATE	5/15-6/15	6/5-7/17	7/17-8/14	8/14-9/14	9/14-10/13	10/13-11/13	11/13-12/13	12/13-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14		
303420	COST	\$22.51	\$22.79	\$18.00	\$20.60	\$34.38	\$39.87	\$130.61	\$223.38	\$164.80	\$130.40	\$91.80	\$34.72	\$933.86	
METER 181502	THERM	10	9	0	5	27	33	152	228	162	150	104	25		905
CHANCELLOR HOUSE	DATE	5/11-6/12	6/12-7/13	7/13-8/14	8/14-9/12	9/12-10/11	10/11-11/10	11/10-12/12	12/1/12	1/12-2/13	2/13-3/14	3/14-4/11	4/11-5/11		
3015 BAY VIEW DR.	COST	\$70.03	\$45.70	\$40.55	\$35.86	\$93.25	\$115.12	\$351.22	\$529.80	\$472.49	\$336.72	\$225.17	\$115.59	\$2,431.50	
0340850 METER 581832	THERM	120	64	56	48	125	144	412	530	465	394	275	145		2,778
UNIVERSITY UNION	DATE	5/15-6/15	6/15-7/17	7/17-8/14	8/14-9/14	9/14-10/13	10/13-11/13	11/13-12/13	12/13-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14		
402342	COST	\$120.05	\$113.50	\$206.32	\$220.95	\$544.81	\$599.09	\$683.95	\$381.46	\$914.66	\$628.43	\$617.92	\$612.11	\$5,643.25	
METER 195880	THERM	229	182	370	389	875	882	897	403	991	814	846	899		7,777
2479 NICOLET DR.	DATE	5/15-6/15	6/15-7/17	7/17-8/15	8/15-9/14	9/14-10/13	10/13-11/13	11/13-12/14	12/14-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14		
OUTING CENTER	COST	\$51.25	\$28.63	\$26.69	\$23.29	\$122.13	\$151.99	\$369.68	\$488.20	\$475.06	\$402.22	\$267.40	\$136.26	\$2,542.80	
0323051 METER 211669	THERM	75	20	17	10	173	203	472	520	505	512	352	179		3,038
													TOTAL	\$19,960.51	
Monthly Totals		\$303.40	\$364.80	\$341.66	\$474.87	\$1,052.72	\$2,065.83	\$2,441.80	\$3,330.29	\$3,800.02	\$2,683.66	\$ 1,988.18	\$ 1,113.28	\$ 19,960.51	
Monthly Therms		482	465	470	494	1,527	1,676	3,020	3,530	4,313	3,459	2,674	1,523		23,633
CUM COSTS		\$303.40	\$ 668.20	\$ 1,009.86	\$ 1,484.73	\$ 2,537.45	\$ 4,603.28	\$ 7,045.08	\$ 10,375.37	\$ 14,175.39	\$ 16,859.05	\$ 18,847.23	\$ 19,960.51		
CUM THERMS		482	947	1,417	1,911	3,438	5,114	8,134	11,664	15,977	19,436	22,110	23,633		
00-01 mmBtu		2,363													

PO 1545

GAS  
2001-02

		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	TOTAL COSTS	TOTAL THERMS	
PROJECT 6606-11	DATE	6/13-7/16	7/16-8/14	8/14-9/13	9/13-10/12	10/12-11/14	11/14-12/13	12/13-1/15	1/15-2/14	2/14-3/18	3/18-4/16	4/16-5/15	5/15-6/14			
625439	COST	42.82	\$24.97	\$44.12	\$90.36	\$170.00	\$395.77	\$393.27	\$579.26	\$623.25	\$386.41	\$314.76	\$163.11	\$3,228.10		
METER 337925	THERM	54	16	62	192	343	638	640	1,033	1,202	676	554	289		5,699	
PRO SHOP	DATE	5/14-6/13	6/13-7/16	7/16-8/14	8/14-9/13	9/13-10/12	10/12-11/14	11/14-12/13	12/13-1/15	1/15-2/14	2/14-3/18	3/18-4/16	4/16-5/15			
303417	COST	\$101.24	\$28.56	\$27.12	\$27.69	\$65.71	\$171.76	\$241.11	\$318.11	\$293.98	\$419.99	\$391.85	\$186.49	\$2,273.61		
METER 112431	THERM	151	23	21	23	127	347	377	512	508	799	686	\$315		3,889	
LANGUAGE HOUSE	DATE	5/14-6/13	6/13-7/16	7/16-8/14	8/14-9/13	9/13-10/12	10/12-11/14	11/14-12/13	12/13-1/15	1/15-2/14	2/14-3/18	3/18-4/16	4/16-5/15			
303420	COST	\$27.96	\$20.28	\$19.73	\$20.09	\$24.45	\$46.87	\$63.22	\$126.66	\$116.17	\$107.79	\$77.65	\$51.80	\$702.67		
METER 181502	THERM	18	5	4	5	17	65	76	185	181	178	109	63		906	
CHANCELLOR HOUSE	DATE	5/11-6/12	6/12-7/11	7/11-8/10	8/10-9/12	9/12-10/11	10/11-11/12	11/12-12/12	12/12-1/14	1/14-2/13	2/13-3/14	3/14-4/15	4/15-5/15			
3015 BAY VIEW DR.	COST	\$74.58	\$30.10	\$22.52	\$28.29	\$31.17	\$99.47	\$177.39	\$307.23	\$268.50	\$240.13	\$152.11	\$107.87	\$1,539.36		
340850 METER 216793	THERM	106	43	31	43	53	179	252	442	407	386	229	159		2,330	
UNIVERSITY UNION	DATE	5/14-6/13	6/13-7/16	7/16-8/14	8/14-9/13	9/13-10/12	10/12-11/14	11/14-12/13	12/13-1/15	1/15-2/14	2/14-3/18	3/18-4/16	4/16-5/15			
402342	COST	\$152.81	\$166.00	\$140.59	\$179.36	\$367.18	\$513.93	\$565.94	\$226.51	\$469.64	\$541.55	\$428.55	\$519.23	\$4,271.29		
METER 195880	THERM	245	324	283	385	927	1,118	925	355	831	1,040	753	936		8,122	
2479 NICOLET DR.	DATE	5/14-6/14	6/14-7/16	7/16-8/14	6/14-9/27	9/27-10/12	10/12-11/14	11/14-12/13	12/13-1/14	1/14-2/14	2/14-3/18	3/18-4/18	4/18-5/15			
OUTING CENTER	COST	\$74.91	\$71.29	\$21.02	\$18.87	\$33.57	\$145.11	\$196.49	\$309.39	\$309.04	\$308.05	\$226.57	\$145.30	\$1,859.61		
0323051 METER 211669	THERM	104	117	7	112	69	287	301	496	535	576	381	240		3,225	
														TOTAL	\$13,874.64	24,171
Monthly Totals		\$474.32	\$341.20	\$275.10	\$364.66	\$692.08	\$1,372.91	\$1,637.42	\$1,867.16	\$2,080.58	\$2,003.92	\$1,591.49	\$1,173.80	\$13,874.64		
Monthly Therms		678	528	408	630	1,385	2,339	2,569	2,630	3,495	3,602	2,712	2,002	0	24,171	
CUM COSTS		\$474.32	\$815.52	\$1,090.62	\$1,455.28	\$2,147.36	\$3,520.27	\$5,157.69	\$7,024.85	\$9,105.43	\$11,109.35	\$12,700.84	\$13,874.64			
CUM THERMS		678	1,206	1,614	2,244	3,629	5,968	8,537	11,167	14,662	18,264	20,976	22,978			
01-02 mmBtu															2,417	

PO 2407

Gas 2002-2003

		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	TOTAL COSTS	TOTAL THERMS	
PROJECT 6606-11	DATE	6/14-7/17	7/17-8/14	8/14-9/13	9/13-10/15	10/15-11/20	11/20-12/13	12/13-1/15	1/15-2/12	2/12-3/17	3/17-4/14	4/14-5/15	5/15-6/17			
625439	COST	98.78	\$100.63	\$59.78	\$195.59	\$514.55	\$521.91	\$333.41	\$857.94	\$1,140.04	\$605.32	\$482.90	\$139.54	\$5,050.39		
METER 337925	THERM	176	172	86	343	783	761	490	1,273	1,309	702	740	181		7,016	
PRO SHOP	DATE	5/15-6/14	6/14-7/17	7/17-8/14	8/14-9/13	9/13-10/15	10/15-11/14	11/14-12/13	12/13-1/15	1/15-2/12	2/12-3/17	3/17-4/14	4/14-5/15			
303417	COST	\$95.36	\$38.78	\$27.66	\$28.69	\$88.10	\$205.56	\$685.08	\$685.57	\$812.80	\$942.00	\$498.30	\$260.89	\$4,368.79		
METER 112431	THERM	154	45	20	22	135	305	988	1,037	1,204	1,078	574	385		5,947	
LANGUAGE HOUSE	DATE	5/15-6/14	6/14-7/17	7/17-8/14	8/14-9/13	9/13-10/15	10/15-11/14	11/14-12/13	12/13-1/15	1/15-2/12	2/12-3/17	3/17-4/14	4/14-5/15			
303420	COST	\$28.11	\$20.30	\$20.41	\$19.93	\$31.00	\$76.01	\$110.85	\$132.28	\$171.50	\$222.98	\$120.89	\$68.45	\$1,022.71		
METER 181502	THERM	20	5	5	4	25	94	138	178	233	239	121	78		1,140	
CHANCELLOR HOUSE	DATE	5/15-6/12	6/12-7/15	7/15-8/13	8/13-9/12	9/12-10/15	10/15-11/13	11/13-12/12	12/12-1/14	1/14-2/13	2/13-3/13	3/13-4/11	4/11-5/13			
3015 BAY VIEW DR.	COST	\$139.38	\$40.86	\$34.33	\$37.74	\$60.17	\$195.23	\$322.26	\$360.31	\$322.91	\$627.69	\$293.69	\$120.76	\$2,555.33		
340850 METER 216793	THERM	221	60	47	53	88	274	420	493	431	681	303	164		3,235	
UNIVERSITY UNION	DATE	5/15-6/14	6/14-7/17	7/17-8/14	8/14-9/13	9/13-10/15	10/15-11/14	11/14-12/13	12/13-1/15	1/15-2/12	2/12-3/17	3/17-4/14	4/14-5/15			
402342	COST	\$192.97	\$164.78	\$129.12	\$263.93	\$561.19	\$1,040.37	\$384.79	\$275.86	\$703.78	\$1,107.04	\$789.71	\$737.60	\$6,351.14		
METER 195880	THERM	348	319	231	509	1,049	1,664	543	401	1,039	1,270	923	1,148		9,444	
2479 NICOLET DR.	DATE	5/15-6/14	6/14-7/17	7/17-8/14	8/14-9/13	9/13-10/15	10/15-11/13	11/13-12/13	12/13-1/15	1/15-2/14	2/14-3/17	3/17-4/14	4/14-5/15			
LAMBEAU HOUSE-PHILOS.	COST	\$76.15	\$26.32	\$20.41	\$24.81	\$99.55	\$235.93	\$339.13	\$363.09	\$457.91	\$519.45	\$307.05	\$167.80	\$2,637.60		
0323051 METER 211669	THERM	116	18	5	14	158	356	475	536	666	577	344	236		3,501	
														TOTAL	\$21,985.96	30,283
Monthly Totals		\$630.75	\$391.67	\$291.71	\$570.69	\$1,354.56	\$2,275.01	\$2,175.52	\$2,675.05	\$3,608.94	\$4,024.48	\$2,492.54	\$1,495.04	\$21,985.96		
Monthly Therms		1,035	619	394	945	2,238	3,454	3,054	3,918	4,882	4,547	3,005	2,192	0	30,283	
CUM COSTS		\$630.75	\$1,022.42	\$1,314.13	\$1,884.82	\$3,239.38	\$5,514.39	\$7,689.91	\$10,364.96	\$13,973.90	\$17,998.38	\$20,490.92	\$21,985.96			
CUM THERMS		1,035	1,654	2,048	2,993	5,231	8,685	11,739	15,657	20,539	25,086	28,091	30,283			
02-03 mmBtu		3,028.3														

PO 3262

GAS  
2003-2004

TOTAL COSTS	TOTAL THERMS
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		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE			
PROJECT 6606-11	DATE	6/17-7/17	7/17-8/18	8/18-9/16	9/16-10/16	10/16-11/13	11/13-12/18	12/18-1/16	1/16-2/16	2/16-3/16	3/16-4/13	4/13-5/13	5/13-6/14			
625439	COST	86.62	\$168.34	\$127.71	\$304.06	\$640.91	\$946.67	\$370.05	\$1,256.67	\$836.61	\$683.87	\$572.99	\$157.32	\$6,151.82		
METER 337925	THERM	99	237	170	458	954	1,291	466	1,588	1,145	982	791	177		8,358	
PRO SHOP	DATE	5/15-6/17	6/17-7/17	7/17-8/18	8/18-9/16	9/16-10/16	10/16-11/13	11/13-12/16	12/16-1/16	1/16-2/16	2/16-3/16	3/16-4/13	4/13-5/13			
303417	COST	\$102.80	\$34.30	\$38.32	\$33.39	\$145.20	\$317.08	\$625.36	\$576.33	\$1,043.29	\$556.07	\$337.11	\$74.51	\$3,883.76		
METER 112431	THERM	125	21	29	21	202	456	843	745	1,313	750	466	73		5,044	
LANGUAGE HOUSE	DATE	5/15-6/17	6/17-7/17	7/17-8/18	8/18-9/16	9/16-10/16	10/16-11/13	11/13-12/16	12/16-1/16	1/16-2/16	2/16-3/16	3/16-4/29	4/29-5/14			
303420	COST	\$32.04	\$20.00	\$20.00	\$20.00	\$72.31	\$110.31	\$182.15	\$254.22	\$269.46	\$170.14	\$160.70	\$37.89	\$1,349.22		
METER 181502	THERM	18	0	0	0	84	139	226	306	304	204	193	43		1,517	
CHANCELLOR HOUSE	DATE	5/15-6/12	6/12-7/16	7/16-8/14	8/14-9/15	9/15-10/14	10/14-11/11	11/11-12/15	12/15-1/13	1/13-2/12	2/12-3/12	3/12-4/13	4/13-5/12			
3015 BAY VIEW DR.	COST	\$57.65	\$61.34	\$36.18	\$52.75	\$87.03	\$168.36	\$288.24	\$366.79	\$473.19	\$305.32	\$230.98	\$129.39	\$2,257.22		
340850 METER 216793	THERM	70	72	40	64	116	229	361	443	543	367	296	155		2,756	
UNIVERSITY UNION	DATE	5/15-6/17	6/17-7/17	7/17-8/18	8/18-9/16	9/16-10/16	10/16-11/13	11/13-12/16	12/16-1/16	1/16-2/16	2/16-3/16	3/16-4/13	4/13-5/13			
402342	COST	\$271.12	\$281.69	\$353.98	\$403.12	\$687.16	\$632.45	\$1,173.02	cred 114.40	\$786.65	\$823.69	\$659.52	\$847.05	\$6,919.45		
METER 195880	THERM	379	388	533	604	1,076	941	1,606	1,392	1,130	1,127	946	1,185		11,307	
2479 NICOLET DR.	DATE	5/15-6/16	6/16-7/18	7/18-8/18	8/18-9/16	9/16-10/16	10/16-11/14	11/14-12/16	12/16-1/16	1/16-2/16	2/16-3/15	3/15-4/29	4/29-5/13			
LAMBEAU HOUSE-PHILOS.	COST	\$77.97	\$26.81	\$25.08	\$25.08	\$132.74	\$233.85	\$427.18	\$337.60	\$533.00	\$325.39	\$371.28	\$74.51	\$2,590.49		
0323051 METER 211669	THERM	88	10	8	8	181	327	567	424	656	423	494	92		3,278	
														TOTAL	\$23,151.96	32,260
Monthly Totals		\$628.20	\$592.48	\$601.27	\$838.40	\$1,765.35	\$2,408.72	\$3,066.00	\$2,791.61	\$3,942.20	\$2,864.48	\$2,332.58	\$ 1,320.67	\$ 23,151.96		
Monthly Therms		779	728	780	1,155	2,613	3,383	4,069	4,898	5,091	3,853	3,186	1,725	0	32,260	
CUM COSTS		\$628.20	\$1,220.68	\$1,821.95	\$2,660.35	\$4,425.70	\$6,834.42	\$9,900.42	\$12,692.03	\$16,634.23	\$19,498.71	\$21,831.29	\$23,151.96			
CUM THERMS		779	1,507	2,287	3,442	6,055	9,438	13,507	18,405	23,496	27,349	30,535	32,260			
03-04 mmBtu			3,226													

PO 4013		GAS 2004-2005												TOTAL COSTS	TOTAL THERMS	
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE			
PROJECT 6606-11	DATE	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/14	11/14-12/14	12/14-1/13	1/13-2/13	2/13-3/14	3/14-4/13	4/13-5/12	5/12-6/14			
625439	COST	126.49	\$113.94	\$102.12	\$131.43	\$556.56	\$950.05	\$636.44	\$857.10	\$765.90	\$440.19	\$415.82	\$102.06	\$5,198.10		
METER 337925	THERM	127	118	109	153	618	972	702	970	826	446	445	94		5,580	
PRO SHOP	DATE	5/13-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/14	11/14-12/14	12/14-1/13	1/13-2/13	2/13-3/14	3/14-4/13	4/13-5/12			
303417	COST	\$54.65	\$41.37	\$41.27	\$38.63	\$38.32	\$254.21	\$553.88	\$938.24	\$788.28	\$833.20	\$458.82	\$219.61	\$4,260.48		
METER 112431	THERM	41	22	23	21	21	267	556	1,049	889	901	466	\$220		4,476	
LANGUAGE HOUSE	DATE	5/14-6/15	6/15-7/15	7/15-8/16	8/16-9/15	9/15-10/14	10/14-11/15	11/15-12/15	12/15-1/14	1/14-2/14	2/14-3/15	3/15-4/14	4/14-5/13			
303420	COST	\$68.34	\$31.76	\$12.05	\$11.10	\$22.05	\$82.13	\$144.60	\$198.24	\$201.49	\$186.02	\$111.02	\$60.93	\$1,129.73		
METER 181502	THERM	71	25	3	2	16	77	131	197	202	178	99	53		1,054	
CHANCELLOR HOUSE	DATE	5/12-6/14	6/14-7/12	7/12-8/12	8/12-9/14	9/14-10/13	10/13-11/12	11/12-12/14	12/14-1/13	1/13-2/11	2/11-3/14	3/14-4/13	4/13-5/12			
3015 BAY VIEW DR.	COST	\$99.21	\$57.70	\$52.25	\$60.33	\$72.85	\$186.74	\$347.49	\$453.95	\$433.23	\$413.31	\$259.11	\$151.50	\$2,587.67		
340850 METER 216793	THERM	108	54	50	63	81	192	325	465	445	411	244	146		2,584	
UNIVERSITY UNION	DATE	5/13-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/14	11/14-12/14	12/14-1/13	1/13-2/13	2/13-3/14	3/14-4/13	4/13-5/12			
402342	COST	\$190.06	\$505.95	\$441.61	\$427.48	\$816.40	\$1,113.00	\$1,030.02	\$359.98	\$954.34	\$1,023.29	\$891.47	\$831.74	\$8,585.34		
METER 195880	THERM	221	597	544	561	1,124	1,262	1,056	385	1,083	1,113	933	921		9,800	
2479 NICOLET DR.	DATE	5/13-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/14	11/14-12/14	12/14-1/13	1/13-2/13	2/13-3/14	3/14-4/13	4/13-5/12			
LAMBEAU HOUSE	COST	\$113.19	\$56.72	\$45.88	\$42.23	\$113.09	\$148.73	\$253.99	\$375.64	\$364.25	\$313.03	\$180.58	\$58.55	\$2,065.88		
0323051 METER 211669	THERM	119	41	29	26	127	145	242	403	394	320	166	36		2,048	
														TOTAL	\$23,827.20	25,542
Monthly Totals		\$651.94	\$807.44	\$695.18	\$711.20	\$1,619.27	\$2,734.86	\$2,966.42	\$3,183.15	\$3,507.49	\$3,209.04	\$2,316.82	\$ 1,424.39	\$ 23,827.20		
Monthly Therms		687	857	758	826	1,987	2,915	3,012	3,469	3,839	3,369	2,353	1,470	0	25,542	
CUM COSTS		\$651.94	\$1,459.38	\$2,154.56	\$2,865.76	\$4,485.03	\$7,219.89	\$10,186.31	\$13,369.46	\$16,876.95	\$20,085.99	\$22,402.81	\$23,827.20			
CUM THERMS		687	1,544	2,302	3,128	5,115	8,030	11,042	14,511	18,350	21,719	24,072	25,542			
04-05 mmBtu		2,554														



**PO 4750**

GAS 2005-2006
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TOTAL COSTS	TOTAL THERMS
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		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE			
PROJECT 6606-11	DATE	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/13		11/13-12/14	12/14-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14			
3237 STURGEON BAY RD.	COST	167.16	\$93.78	\$104.79	\$224.47	\$686.63		\$1,069.67	\$816.04	\$1,119.88	\$1,264.40	\$938.48	\$489.24	\$6,974.54		
00013 METER 337925	THERM	181	81	80	177	500		850	710	1,028	1,243	976	578		6,404	
PRO SHOP	DATE	5/12-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/13	11/13-12/14	12/14-1/15	1/26-2/13	2/13-3/14	3/14-4/12	4/12-5/14			
00011	COST	\$74.88	\$44.24	\$47.88	\$47.44	\$63.85	\$454.81	\$950.68	\$831.66	\$1,078.45	\$811.49	\$439.76	\$94.37	\$4,939.51		
METER 112431	THERM	60	22	25	21	33	367	755	726	989	788	441	83		4,311	
LANGUAGE HOUSE	DATE	5/13-6/15	6/15-7/15	7/15-8/16	8/16-9/15	9/15-10/14	10/14-11/14	11/14-12/14	12/14-1/15	1/15-2/13	2/13-3/14	3/14-4/12	04/13-5/15			
00020	COST	\$28.22	\$10.37	\$9.50	\$9.50	\$9.50	\$70.65	\$265.87	\$249.22	\$205.92	\$204.44	\$114.49	\$16.73	\$1,194.41		
METER 181502	THERM	21	1	0	0	0	38	195	199	168	177	101	8		908	
CHANCELLOR HOUSE	DATE	5/12-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/11	11/11-12/14	12/14-1/13	1/12-2/12	2/12-3/13	3/13-4/11	4/12-5/12			
3015 BAY VIEW DR.	COST	\$90.16	\$48.95	\$50.39	\$56.10	\$84.47	\$229.18	\$538.54	\$454.50	\$436.16	\$409.89	\$254.62	\$90.45	\$2,743.41		
00018 METER 216793	THERM	90	46	45	44	58	155	395	370	362	364	235	89		2,253	
UNIVERSITY UNION	DATE	5/12-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/13	11/13-12/14	12/14-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14			
00022	COST	\$184.27	\$286.99	\$320.77	\$523.96	\$1,124.61	\$1,633.49	\$1,273.17	\$446.18	\$1,210.26	\$1,058.34	\$763.84	\$799.33	\$9,625.21		
METER 195880	THERM	197	336	356	513	986	2,138	1,019	378	1,113	1,036	789	967		9,828	
2479 NICOLET DR.	DATE	5/12-6/14	6/14-7/14	7/14-8/15	8/15-9/14	9/14-10/13	10/13-11/13	11/13-12/14	12/14-1/15	1/15-2/13	2/13-3/14	3/14-4/12	4/12-5/14			
LAMBEAU HOUSE	COST	\$33.38	\$31.71	\$32.85	\$32.81	\$33.68	\$284.90	\$612.04	\$456.25	\$388.39	\$420.24	\$284.81	\$121.49	\$2,732.55		
00016 METER 211669	THERM	8	6	7	6	6	209	478	387	339	394	275	117		2,233	
														TOTAL	\$28,209.63	25,937
Monthly Totals		\$578.07	\$516.04	\$566.18	\$894.28	\$2,002.74	\$2,673.03	\$4,709.97	\$3,253.85	\$4,439.06	\$4,168.80	\$2,796.00	\$1,611.61	\$28,209.63		
Monthly Therms		557	492	513	761	1,583	2,907	3,692	2,770	3,999	4,003	2,817	1,843	0	25,937	
CUM COSTS		\$578.07	\$1,094.11	\$1,660.29	\$2,554.57	\$4,557.31	\$7,230.34	\$11,940.31	\$15,194.16	\$19,633.22	\$23,802.02	\$26,598.02	\$28,209.63			
CUM THERMS		557	1,049	1,562	2,323	3,906	6,813	10,505	13,275	17,274	21,277	24,094	25,937			
05-06 mmBtu		2,594														

**PO 5563**

GAS 2006-2007
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TOTAL COSTS	TOTAL THERMS
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		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	TOTAL COSTS	TOTAL THERMS	
Facilities	DATE	5/14-6/13	6/13-7/16	7/17-8/16	08/15-09/14	09/14-10/16	10/16-11/14	11/14-12/14	12/14-01/15		01/15-02/13	02/13-04/15	04/15-05/14			
3237 STURGEON BAY RD.	COST	95.48	\$112.82	\$95.85	\$196.43	\$184.63	\$463.46	\$939.83	\$518.06		\$996.15	\$2,345.00	\$551.14	\$6,498.85		
00013	METER 337925	THERM	92	123	90	211	233	577	952	661	1,286	2,358	559		7,142	
PRO SHOP	DATE	5/14-6/13	6/13-7/16	7/17-8/16	08/17-09/15	09/14-10/16	10/16-11/15	11/14-12/14	12/14-01/15		01/15-02/13	03/26-04/15	04/15-05/14			
00011	COST	\$75.70	\$44.53	\$44.57	\$44.77	\$44.11	\$152.21	\$377.77	\$501.14		\$1,353.41	\$1,146.63	\$87.71	\$3,872.55		
METER 112431 / 407244	THERM	65	24	22	21	24	164.5	365	535		861	1,121	\$64		3,267	
LANGUAGE HOUSE	DATE	5/14-6/13	6/13-7/16	7/17-8/16	08/17-09/15	09/15-10/17	10/17-11/15	11/14-12/14	12/15-01/16		01/15-02/13	02/13-04/15	04/15-04/14			
00020	COST	\$10.34	\$9.50	\$9.50	\$9.50	\$21.16	\$80.24	\$146.07	\$110.47		\$167.30	\$313.44	\$41.14	\$918.66		
METER 181502	THERM	1	0	0	0	15	82	128	141		216	273	31		888	
CHANCELLOR HOUSE	DATE	5/11-6/12	6/12-7/13	7/17-8/16	08/17-09/15	09/14-10/17	10/17-11/15	11/14-12/14	12/14-01/15		01/15-02/13	02/13-04/15	04/15-05/14			
3015 BAY VIEW DR.	COST	\$78.76	\$45.99	\$47.83	\$50.20	\$104.82	\$202.03	\$350.92	\$266.43		\$399.68	\$893.75	\$116.37	\$2,556.78		
00018	METER 216793	THERM	82	46	45	45	122	224	320	340	517	812	103		2,655	
UNIVERSITY UNION	DATE	5/14-6/13	6/13-7/16	7/17-8/16	08/17-09/15	09/14-10/16	10/16-11/14	11/14-12/14	12/14-01/15		01/02-02/13	02/13-04/15	04/15-05/14			
00022	COST	\$152.70	\$174.90	\$190.81	\$367.27	\$688.23	\$858.06	\$986.01	\$334.62		\$852.06	\$1,621.65	\$645.88	\$6,872.19		
METER 195880	THERM	170	213	216	425	983	1,099	1,000	427		1,101	1,611	660		7,906	
2487 NICOLET DR.	DATE	5/14-6/13	6/13-7/16	7/17-8/16	08/17-09/15	09/14-10/16	10/16-11/14	11/14-12/14	12/14-01/15		01/15-02/13	02/13-04/15	04/15-05/14			
LAMBEAU Cottage	COST	\$47.77	\$32.82	\$32.52	\$32.80	\$69.03	\$174.18	\$295.09	\$247.64		\$765.05	\$545.95	\$67.04	\$2,309.89		
00016	METER 211669	THERM	27	7	6	6	61	194	279	316	446	501	41		1,884	
														TOTAL	\$23,028.92	23,741
Monthly Totals		\$460.75	\$420.56	\$421.08	\$700.97	\$1,111.98	\$1,930.18	\$3,095.69	\$1,978.36	\$0.00	\$4,533.65	\$6,866.42	\$1,509.28	\$23,028.92		
Monthly Therms		437	413	379	708	1,438	2,340	3,044	2,420		4,427	6,676	1,458	0	23,741	
CUM COSTS		\$460.75	\$881.31	\$1,302.39	\$2,003.36	\$3,115.34	\$5,045.52	\$8,141.21	\$10,119.57	\$10,119.57	\$14,653.22	\$21,519.64	\$23,028.92			
CUM THERMS			413	792	1,500	2,939	5,279	8,323	10,743	10,743	15,169	21,845	23,303			
06-07mmBtu		2,374														

#### **APPENDIX 4: Gasoline, diesel, and propane usage**

\* The following table displays the gallons of gasoline, diesel, and propane combusted on campus in fiscal years 2005-2007.

Fleet Source: Chris Hatfield October 18, 2007

Golf Course Source: Rick Warpinski November 5, 2007

	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>
<b>UWGB Fleet Gasoline</b>	23,260	25,641	25,590
<b>UWGB Fleet Diesel</b>	1,034	1,232	1,146
<b>Golf Course Gasoline</b>	N/A	N/A	2,694
<b>Golf Course Diesel</b>	N/A	N/A	792
<b>Golf Course Liquid Propane</b>	N/A	N/A	100

### **APPENDIX 5: Distillate fuel consumption**

\* The following table displays the distillate fuel combusted in the facilities boilers in years 2000-2007. Source: Chris Hatfield October 18, 2007

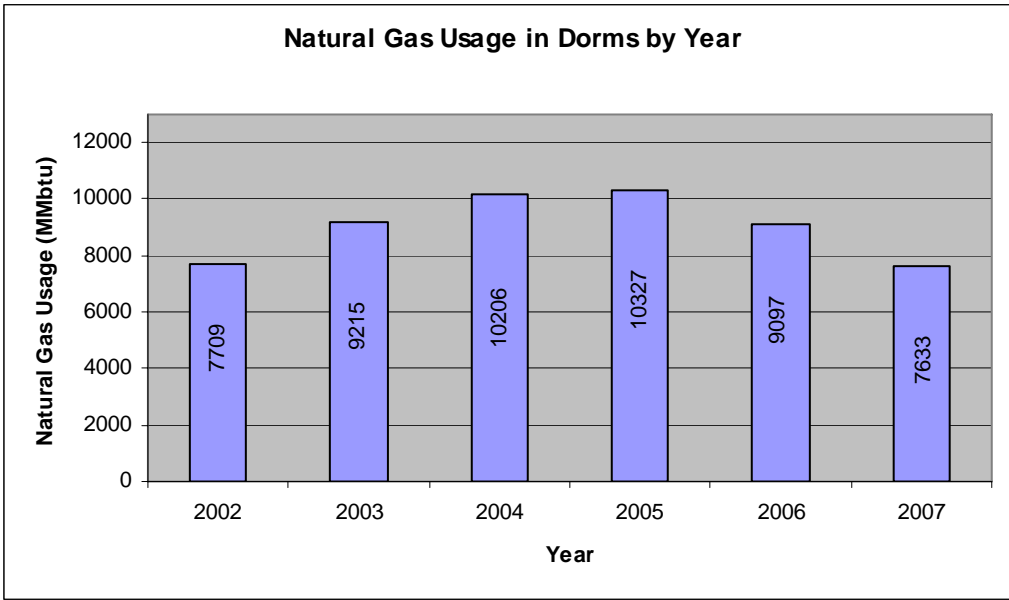
<b>Year</b>	<b>Fuel Oil (gallons)</b>
2000	1415
2001	203319
2002	0
2003	155
2004	3634
2005	185
2006	685
2007	470

## APPENDIX 6: Natural gas usage for residence life buildings

\* The following tables and figures display the available natural gas usage data for Residential Life buildings. Source: Steve Gering October 30, 2007

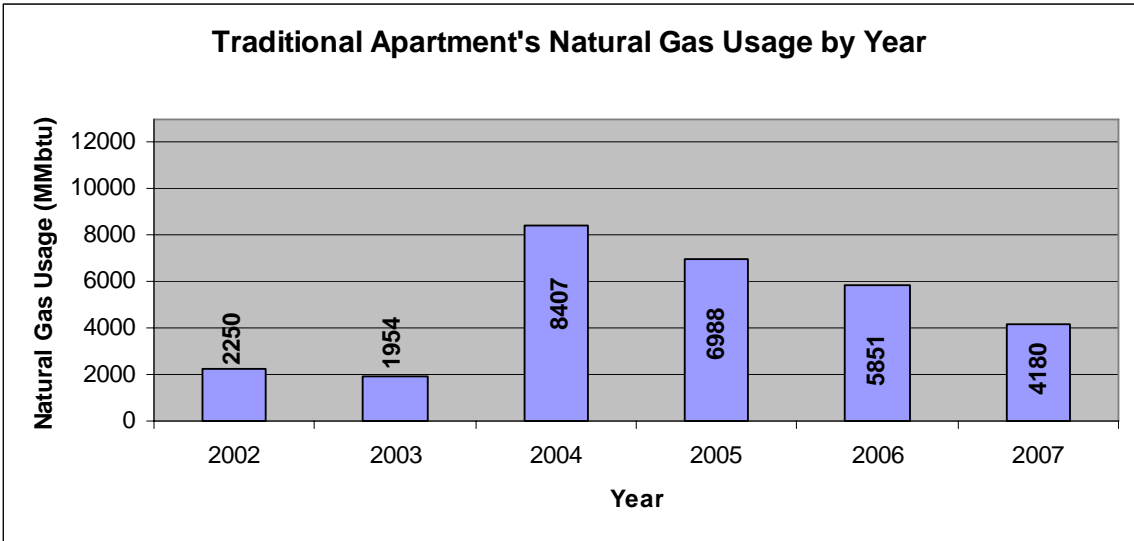
Natural Gas Usage in Dorms (therms)
--

	2002	2003	2004	2005	2006	2007
<b>Dorm</b>						
<b>Phase 1-1985</b>						
<b>Ted Lenfestey Hall</b>	3637	3698	3783	3744	4416	2662
<b>Josephine Lenfestey Hall</b>	3247	4080	3746	3222	3062	2616
<b>Byron Walter Hall</b>	3773	3581	3205	3679	2843	2565
<b>Arlene Walter Hall</b>	3785	3678	3866	3664	3600	3600
<b>Phase 2-1987</b>						
<b>R. E. Small Hall</b>	4069	4439	4198	4099	3625	2214
<b>Cletus Vanderperren Hall</b>	3969	4795	5025	3771	2846	2240
<b>Robert Warren Hall</b>	3773	3581	3205	3679	2843	2265
<b>Phase 3-1989</b>						
<b>Donald Long Hall</b>	4405	4687	4012	4484	3711	2394
<b>Robert Schaefer Hall</b>	4484	4512	4259	4314	3885	2550
<b>James Temp Hall</b>	4625	4375	4878	4729	4683	2830
<b>Phase 4</b>						
<b>John Robishaw Hall-1997</b>	11078	11582	8111	9030	7825	7258
<b>Roy Downham Hall-1994</b>	14045	13081	10666	12276	9274	10897
<b>Donald Harden Hall-1998</b>	12204	12359	9070	10091	8988	6985
<b>Phase 5</b>						
<b>Ed Thompson Hall-2003</b>		9194	11928	10778	8710	7669
<b>Richard Liebl Hall-2003</b>		4509	11463	11706	10654	8584
<b>Tom Haevers Hall-2004</b>			10644	10000	10000	9000
<b>Total therms</b>	77094	92151	102059	103266	90965	76329
<b>mmbtu</b>	7709.4	9215.1	10205.9	10326.6	9096.5	7632.9



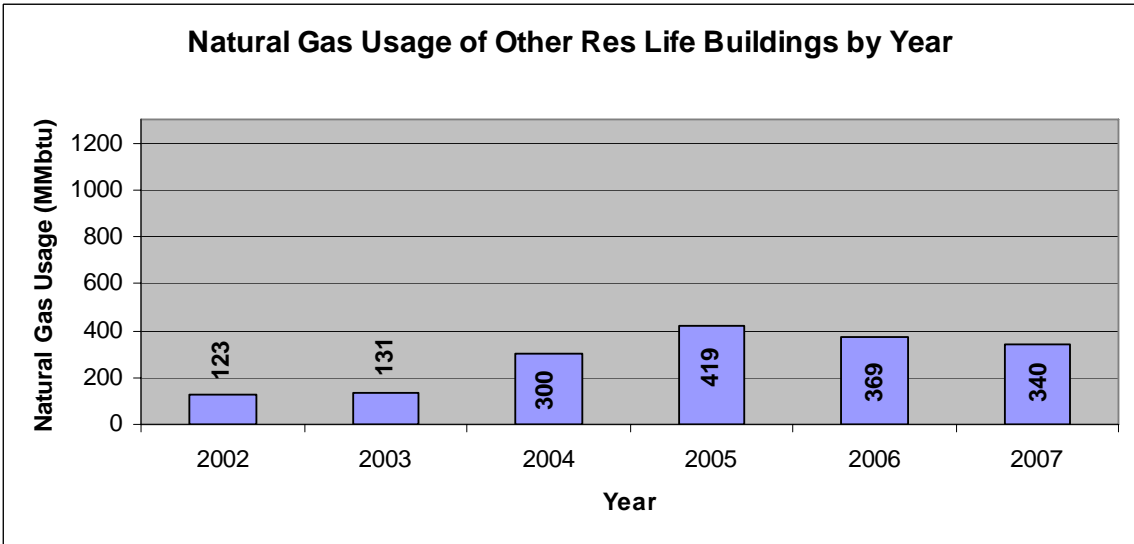
Natural Gas Usage in Traditional Apartments (therms)

	2002	2003	2004	2005	2006	2007
<b>Trad Apts</b>						
101	2500	2239	9386	7746	5514	4795
102	2500	1813	10255	7751	6757	4571
103	2500	2314	10229	7493	6676	4667
104	2500	1646	6666	5586	4474	3333
105	2500	2019	8821	7781	6708	4539
106	2500	2768	10885	9004	7204	4865
107	2500	2237	9360	8318	7672	5594
108	2500	2290	8894	7915	6723	4387
109	2500	2216	9576	8288	6778	5048
<b>Total therms</b>	22500	19542	84072	69882	58506	41799
<b>mmbtu</b>	2250	1954.2	8407.2	6988.2	5850.6	4179.9



Natural Gas Usage in Other Residential Life Buildings (therms)

	2002	2003	2004	2005	2006	2007
<b>Misc Buildings</b>						
<b>CC</b>	626	709	732	1967	1629	1356
<b>Bay Settle</b>			1666	1622	1436	1174
<b>Main Shop</b>	600	600	600	600	623	868
<b>Total therms</b>	1226	1309	2998	4189	3688	3398
<b>mmbtu</b>	122.6	130.9	299.8	418.9	368.8	339.8



### APPENDIX 7: R-22 Freon purchases

\* The following table displays available R-22 Freon purchased by UW-Green Bay.  
Source: Dennis Bailey October 25, 2007 and Patrick Kinjerski December 4, 2007

	<b>Freon</b>
<b>Date</b>	<b>(lbs)</b>
8/17/2007	1.5
8/25/2006	300
8/17/2005	23
8/8/2005	100
9/16/2004	36
7/16/2004	5
7/9/2004	32



**APPENDIX 8a: Scope 1 carbon dioxide equivalents for fiscal years 2001-2007**

\* The following table displays Scope 1 carbon dioxide equivalents for fiscal years 2001-2007.

<b>FISCAL YEAR</b>	<b>Scope 1 eCO<sub>2</sub> Metric Tonnes/Year</b>
2001	4,458
2002	10,991
2003	12,338
2004	16,908
2005	16,457
2006	14,903
2007	12,964

**APPENDIX 9: Scope 1 data collection form: on campus stationary sources**

MODULE	Input									
WORKSHEET	Data									
UNIVERSITY										
On-Campus Stationary Sources										
Fiscal Year	This category includes all stationary sources of emissions on campus (heating, cooling, cooking, laboratories, etc)									
	Residual Oil (#5 - #6)	Distillate Oil (#1 - #4)	Natural Gas	Propane	Incinerated Waste	Coal	Other A	Other B	Other C	Solar / Wind / Biomass
	Gallons	Gallons	MMBtu	Gallons	MMBtu	Short Ton	MMBtu	MMBtu	MMBtu	MMBtu
1990										
1991										
1992										
1993										
1994										
1995										
1996		1,190								
1997		432								
1998		804								
1999		114								
2000		204,620								
2001		0	79,860							58
2002		155	203,223							58
2003		3,449	228,035							58
2004		203	314,963							425
2005		981	304,998							521
2006		690	272,644							129
2007		482	235,377	100						58
2008										
2009										
2010										
2011										
2012										
2013										
2014										
2015										
2016										
2017										
2018										
2019										
2020										

### APPENDIX 10: Scope 1 data collection form: Transportation

MODULE	Input						
WORKSHEET	Data						
UNIVERSITY							
Transportation							
Fiscal Year	University Fleet					Air Travel	
	Gasoline Fleet	Diesel Fleet	Natural Gas Fleet	Electric Fleet	Other Fleet	Faculty / Staff Business	Student Programs
	Gallons	Gallons	MMBtu	kWh	MMBtu	Miles	Miles
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001	23,000						
2002	23,000						
2003	23,000						
2004	23,000						
2005	23,260	1,034					
2006	25,641	1,232					
2007	25,590	1,146					
2008							
2009							
2010							
2011							
2012							
2013							
2014							
2015							
2016							
2017							
2018							
2019							
2020							

**APPENDIX 11: Scope 1 data collection form: Agriculture/Fertilizer application/Animal agriculture**

<b>MODULE</b>	Input											
<b>WORKSHEET</b>	Data											
<b>UNIVERSITY</b>												
<b>Agriculture</b>												
<b>Fiscal Year</b>	<b>Includes all agriculture and animal husbandry run by the university</b>											
	<b>Fertilizer Application</b>				<b>Animal Agriculture</b>							
	<b>Synthetic</b>	<b>% Nitrogen</b>	<b>Organic</b>	<b>% Nitrogen</b>	<b>Dairy Cows</b>	<b>Beef Cows</b>	<b>Swine</b>	<b>Goats</b>	<b>Sheep</b>	<b>Horses</b>	<b>Poultry</b>	<b>Other</b>
	<b>Pounds</b>	<b>%</b>	<b>Pounds</b>	<b>%</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>	<b>#</b>
1990												
1991												
1992												
1993												
1994												
1995												
1996												
1997												
1998												
1999												
2000												
2001		27,362	23%									
2002		27,362	23%									
2003		27,362	23%									
2004		27,362	23%									
2005		27,362	23%									
2006		27,362	23%									
2007		27,362	23%									
2008												
2009												
2010												
2011												
2012												
2013												
2014												
2015												
2016												
2017												
2018												
2019												
2020												

**APPENDIX 12: Scope 1 data collection form: Refrigeration and other chemicals**

MODULE	Input					
WORKSHEET	Data					
UNIVERSITY						
Refrigeration and other Chemicals (PFCs, HFCs, SF6)						
Fiscal Year	All other greenhouse gases.					
	HFC-22	HFC-125	HFC-134a	HFC-143a	HFC-143a	HFC-152a
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1990						
1991						
1992						
1993						
1994						
1995						
1996						
1997						
1998						
1999						
2000						
2001						
2002						
2003						
2004						
2005	73					
2006	100		200			
2007	300					
2008	1.5					
2009						
2010						
2011						
2012						
2013						
2014						
2015						
2016						
2017						
2018						
2019						
2020						