

Liquid He and N2 Cost Survey - AMMRL March 2009

	Location	LHe \$/l	return credit	dewar size	LN2 \$/l	dewar charge	distance to supplier
1	Madison, WI	7.00	y	any	0.30	none; full refund for any unused LHe	0
2	Cambridge, MA	9.67	n	-	0.24	272/yr, 35/month for LN2; 0 for LHe	
		6.96		250		energy and fuel charge CDN \$ 6 per Dewar, plus shipping cost of CDN \$ 50 if not delivered on regular delivery schedule	
3	Burnaby, BC Canada	7.76	n	60	0.39		
4	Toronto, Canada (LHe 30 miles)	7.76	n	100	0.39	\$8 hazmat fee	30
5	U California	4.99	n	-	2.00?	none	
6	Garching, Germany	6.90	n	450	0.16	none	
		6.00		250			
7	Philadelphia, PA	8.00	n	100	0.40	none	
8	do not publish, but 233 miles fr	6.00	n	250	0.22	none	230
9	Provo, UT	10.50	n	100	1.60?	\$250 per shipment shipping charge	700
						Dewar Rental: \$630.00/year Other Charges: Haz Mat: \$5.99/delivery Fuel Surcharge: \$15.00/delivery Delivery Fee: \$13.00/delivery	
10	Wilberforce, Ohio	13.80	n	100	0.59		
11	Las Cruces, NM	8.27	n	100	0.59	daily demurrage (but no \$)	390
12	Binghamton, NY	6.50	n	60	0.47	one month free	
13	Honolulu, Hawaii	19.03	n	100	0.50	3 days free	
14	100 miles from supplier	12.70	n	-	-	none	100
15	Houston, TX	6.25	n	250	0.35	\$20/day LHe dewars	
		6.00		250		\$350/yr for 230L LN2 tank, \$4.3/day for 250-350L LHe tank, 7.95/tank hazmat, \$11/tank energy+fuel, \$5/tank safety+env	900
16	Columbia, MO	8.30	n	60	0.35		
		5.92		250			
17	College Station, TX	6.70	n	100	-	\$4/wk	200
18	Naperville, IL	8.50	n	60	0.27	LHe: \$38 use fee + \$35.32 tax; LN2 \$33/month tank rental	20
				60			
19	Minneapolis, MN	6.37	n	100	0.55	none	
20	Atlanta, Georgia	6.00	n	100	0.14	LHE \$4.25/day	
				60			
21	100 miles from supplier	8.13	n	100	0.35	+ Delivery \$14, hasmat \$8, Fuel/env \$11	100
		4.95		<250			
22	Irvine, CA	4.85	n	>=250	0.32	none	
23	Stony Brook, NY	6.00	n	2x250	0.55	\$30/dewar LHe	
24	Eugene, OR	8.88	n	100	0.50	10 days free	
25	Washington DC	7.57	n	250	0.35	LHe: \$21 fuel; LN2 \$13 delivery	
26	Mumbai, India	12.00	n	60	0.40	+ 80 delivery + 5.5% duty	
27	Santa Cruz, CA	6.43	n	100	0.28	none for now	25
28	Berkeley, CA	7.40	y	any	0.38	\$30 cooling if dewar warm (in-house supplier)	0
29	Grahamstown, South Africa	15.87	n	100	0.48	month rental free, LN2 tanks 47.31/month	621
30	Memphis, TN	9.50	n	any	0.50	LHe tanks full, \$10 rental, LN2 upto 1/2 empty	
31	Greensboro, NC					has paid up to 25% of cost in fuel surcharges	
32	Tampa, FL	8.25	n	-	0.46	none (or included)	
33	Dallas, TX	7.95	n	-	0.32	\$1.10/day rental	
				60			
				100			
34	Boulder, CO	8.89	n	250	0.39	+ 54.71 for LHe delivery	810

35	San Diego, CA	4.50	n	100	0.44	none	
36	Berkeley, CA	6.40	y	-	-	none	
37	Stillwater, OK	7.50	n	100	0.44	none	
38	Research Triangle Park, NC	8.50	n	100	-	-	
		6.75		250			
		7.42		100			
		8.42		60			
39	West Lafayette, IN	9.50	n	30	0.15	-	
40	Jerusalem, Israel	18.00	n	100	0.95	none	
41	Clinton, NY	11.61	n	60	0.30	LHe \$3.90/day; LN2 \$1.88/day	
		8.30		100			
42	Columbus, OH	8.50	n	60	0.50	none	
43	Omaha, NE	10.08	n	100	0.45	LN2 \$45/month; LHe \$3.35/day	
44	Edmonton, Alberta, Canada	10.14	y	250	0.78	\$6/L credit for unused LHe; \$56/trip delivery	930
		6.25		100			
45	Tempe, AZ	9.00	n	satt	0.45	none; \$9/L for satellite campus	

average	\$8.65
sddev	\$3.15

\$0.41
\$0.17