HEM Chronic Noncancer Output

```
 00010     ff         1
NON CANCER
1  AVONDALE
295542 901118                          000001
H    1.79E+046.15 1000   1  0.1 298
NON CANCER
2  BATH IRON
435429 694856                          000001
H    1.84E+036.15 1000   1  0.1 298
NON CANCER
3  CASCADE
4532551224315                          000001
H    1.25E+016.15 1000   1  0.1 298
NON CANCER
4  ELECTRIC BOAT
412055 722055                          000001
H    1.97E-026.15 1000   1  0.1 298
NON CANCER
5  INGALLS
302100 883400                          000001
H    6.58E+036.15 1000   1  0.1 298
NON CANCER
6  JEFFBOAT
381638 854328                          000001
H    2.96E+046.15 1000   1  0.1 298
NON CANCER
7  NASSCO
3241171170810                          000001
H    1.00E+046.15 1000   1  0.1 298
NON CANCER
8  NEWPORT
365917 762615                          000001
H    7.20E+036.15 1000   1  0.1 298
NON CANCER
9  NORFOLK
364919 761741                          000001
H    2.53E+016.15 1000   1  0.1 298
NON CANCER
10  NORSHIPCO
364953 761732                          000001
H    6.43E+036.15 1000   1  0.1 298
```

Tuesday 27 May 2003 - 16:18:06 Report Uses 2000 Population with Double Counting of People

Summary for NON CANCER

Maximum Radius = 50.0 Km

Level	Concentration	Population	Exposure
1	6.37E+01		0.00E+00
2	5.00E+01		0.00E+00
3	2.50E+01		0.00E+00
4	1.00E+01	51	5.40E+02
5	5.00E+00	132	1.03E+03
6	2.50E+00	314	1.63E+03
7	1.00E+00	1,450	3.42E+03
8	5.00E-01	3,990	5.16E+03
9	2.50E-01	15,600	9.92E+03
10	1.00E-01	40,700	1.36E+04
11	5.00E-02	97,400	1.73E+04
12	2.50E-02	253,000	2.27E+04
13	1.00E-02	899,000	3.23E+04
14	5.00E-03	1,910,000	3.94E+04
15	2.50E-03	3,190,000	4.41E+04
16	1.00E-03	4,560,000	4.63E+04
17	5.00E-04	5,960,000	4.73E+04
18	2.50E-04	7,470,000	4.79E+04
19	1.00E-04	8,050,000	4.80E+04
20	5.00E-05	8,310,000	4.80E+04
21	2.50E-05	8,410,000	4.80E+04
22	1.00E-05	8,710,000	4.80E+04
23	5.00E-06	9,220,000	4.80E+04
24	2.50E-06	10,100,000	4.80E+04
25	1.00E-06	11,300,000	4.80E+04
26	5.00E-07	11,600,000	4.80E+04
27	2.50E-07	11,600,000	4.80E+04
28	1.00E-07	11,600,000	4.80E+04
29	5.00E-08	11,600,000	4.80E+04
30	2.50E-08	11,600,000	4.80E+04
31	1.00E-08	11,600,000	4.80E+04
32	5.00E-09	11,600,000	4.80E+04
33	2.50E-09	11,600,000	4.80E+04
34	1.00E-09	11,800,000	4.80E+04
35	5.00E-10	12,200,000	4.80E+04
36	2.50E-10	12,700,000	4.80E+04

37	2.46E-10	12,700,000	4.80E+04

Using a Unit Risk of 1.00E+00

Level	Risk Level	Population	Exposure*Unit Risk
1	6.37E+01		0.00E+00
2	5.00E+01		0.00E+00
3	2.50E+01		0.00E+00
4	1.00E+01	51	5.40E+02
5	5.00E+00	132	1.03E+03
6	2.50E+00	314	1.63E+03
7	1.00E+00	1,450	3.42E+03
8	5.00E-01	3,990	5.16E+03
9	2.50E-01	15,600	9.92E+03
10	1.00E-01	40,700	1.36E+04
11	5.00E-02	97,400	1.73E+04
12	2.50E-02	253,000	2.27E+04
13	1.00E-02	899,000	3.23E+04
14	5.00E-03	1,910,000	3.94E+04
15	2.50E-03	3,190,000	4.41E+04
16	1.00E-03	4,560,000	4.63E+04
17	5.00E-04	5,960,000	4.73E+04
18	2.50E-04	7,470,000	4.79E+04
19	1.00E-04	8,050,000	4.80E+04
20	5.00E-05	8,310,000	4.80E+04
21	2.50E-05	8,410,000	4.80E+04
22	1.00E-05	8,710,000	4.80E+04
23	5.00E-06	9,220,000	4.80E+04
24	2.50E-06	10,100,000	4.80E+04
25	1.00E-06	11,300,000	4.80E+04
26	5.00E-07	11,600,000	4.80E+04
27	2.50E-07	11,600,000	4.80E+04
28	1.00E-07	11,600,000	4.80E+04
29	5.00E-08	11,600,000	4.80E+04
30	2.50E-08	11,600,000	4.80E+04
31	1.00E-08	11,600,000	4.80E+04
32	5.00E-09	11,600,000	4.80E+04
33	2.50E-09	11,600,000	4.80E+04
34	1.00E-09	11,800,000	4.80E+04
35	5.00E-10	12,200,000	4.80E+04
36	2.50E-10	12,700,000	4.80E+04
37	2.46E-10	12,700,000	4.80E+04

Summary for NON CANCER — Sorted by Input Order
with a Unit Risk of 1.00E+00

- Maximum -					- - Minimum - -					
Conc	People	Exposure	Lifetime Incidence	Max Risk	Conc	People	Exposure	Annual Incidence	Repeat Interval	Source
2.03E+00	2	4.07E+00	4.07E+00	2.03E+00	5.63E-04	1,160,000	9.46E+03	140.	0.007	1 AVONDALE
7.16E-01	20	1.43E+01	1.43E+01	7.16E-01	3.95E-05	401,000	4.97E+02	7.1	0.14	2 BATH IRON
5.44E-04	2	1.09E-03	1.09E-03	5.44E-04	2.58E-07	1,850,000	8.61E+00	0.12	8.1	3 CASCADE
2.31E-06	122	2.82E-04	2.82E-04	2.31E-06	2.80E-10	1,150,000	1.37E-03	<0.0001	51,000.	4 ELECTRIC BOAT
2.14E-01	785	1.68E+02	1.68E+02	2.14E-01	2.14E-04	353,000	8.51E+02	12.	0.082	5 INGALLS
1.07E+01	30	3.21E+02	3.21E+02	1.07E+01	6.01E-04	1,110,000	1.90E+04	270.	0.004	6 JEFFBOAT
4.68E-01	5,870	2.75E+03	2.75E+03	4.68E-01	1.81E-04	2,270,000	1.23E+04	180.	0.006	7 NASSCO
7.60E-01	2	1.52E+00	1.52E+00	7.60E-01	1.02E-04	1,530,000	2.56E+03	37.	0.027	8 NEWPORT
3.07E-03	7	2.15E-02	2.15E-02	3.07E-03	3.63E-07	1,450,000	1.26E+01	0.18	5.6	9 NORFOLK
5.87E-01	1	5.87E-01	5.87E-01	5.87E-01	8.88E-05	1,450,000	3.37E+03	48.	0.021	10 NORSHIPCO
						12,700,000	4.80E+04	690.	0.001	Overall

Summary for NON CANCER — Sorted by Max Concentration
with a Unit Risk of 1.00E+00

- Maximum -					- - Minimum - -					
Conc	People	Exposure	Lifetime Incidence	Max Risk	Conc	People	Exposure	Annual Incidence	Repeat Interval	Source
1.07E+01	30	3.21E+02	3.21E+02	1.07E+01	6.01E-04	1,110,000	1.90E+04	270.	0.004	6 JEFFBOAT
2.03E+00	2	4.07E+00	4.07E+00	2.03E+00	5.63E-04	1,160,000	9.46E+03	140.	0.007	1 AVONDALE
7.60E-01	2	1.52E+00	1.52E+00	7.60E-01	1.02E-04	1,530,000	2.56E+03	37.	0.027	8 NEWPORT
7.16E-01	20	1.43E+01	1.43E+01	7.16E-01	3.95E-05	401,000	4.97E+02	7.1	0.14	2 BATH IRON
5.87E-01	1	5.87E-01	5.87E-01	5.87E-01	8.88E-05	1,450,000	3.37E+03	48.	0.021	10 NORSHIPCO
4.68E-01	5,870	2.75E+03	2.75E+03	4.68E-01	1.81E-04	2,270,000	1.23E+04	180.	0.006	7 NASSCO
2.14E-01	785	1.68E+02	1.68E+02	2.14E-01	2.14E-04	353,000	8.51E+02	12.	0.082	5 INGALLS
3.07E-03	7	2.15E-02	2.15E-02	3.07E-03	3.63E-07	1,450,000	1.26E+01	0.18	5.6	9 NORFOLK
5.44E-04	2	1.09E-03	1.09E-03	5.44E-04	2.58E-07	1,850,000	8.61E+00	0.12	8.1	3 CASCADE
2.31E-06	122	2.82E-04	2.82E-04	2.31E-06	2.80E-10	1,150,000	1.37E-03	<0.0001	51,000.	4 ELECTRIC BOAT
						12,700,000	4.80E+04	690.	0.001	Overall

Summary for NON CANCER — Sorted by Plant Exposure
with a Unit Risk of 1.00E+00

- Maximum -					- - Minimum - -					
Conc	People	Exposure	Lifetime Incidence	Max Risk	Conc	People	Exposure	Annual Incidence	Repeat Interval	Source
1.07E+01	30	3.21E+02	3.21E+02	1.07E+01	6.01E-04	1,110,000	1.90E+04	270.	0.004	6 JEFFBOAT
4.68E-01	5,870	2.75E+03	2.75E+03	4.68E-01	1.81E-04	2,270,000	1.23E+04	180.	0.006	7 NASSCO
2.03E+00	2	4.07E+00	4.07E+00	2.03E+00	5.63E-04	1,160,000	9.46E+03	140.	0.007	1 AVONDALE
5.87E-01	1	5.87E-01	5.87E-01	5.87E-01	8.88E-05	1,450,000	3.37E+03	48.	0.021	10 NORSHIPCO
7.60E-01	2	1.52E+00	1.52E+00	7.60E-01	1.02E-04	1,530,000	2.56E+03	37.	0.027	8 NEWPORT
2.14E-01	785	1.68E+02	1.68E+02	2.14E-01	2.14E-04	353,000	8.51E+02	12.	0.082	5 INGALLS
7.16E-01	20	1.43E+01	1.43E+01	7.16E-01	3.95E-05	401,000	4.97E+02	7.1	0.14	2 BATH IRON
3.07E-03	7	2.15E-02	2.15E-02	3.07E-03	3.63E-07	1,450,000	1.26E+01	0.18	5.6	9 NORFOLK
5.44E-04	2	1.09E-03	1.09E-03	5.44E-04	2.58E-07	1,850,000	8.61E+00	0.12	8.1	3 CASCADE
2.31E-06	122	2.82E-04	2.82E-04	2.31E-06	2.80E-10	1,150,000	1.37E-03	<0.0001	51,000.	4 ELECTRIC BOAT
						12,700,000	4.80E+04	690.	0.001	Overall

10 Sources Processed

10 was the Greatest Number of Sources per Chemical

Tuesday 27 May 2003 - 16:18:06 Report Uses 2000 Population with Single Counting of People

Summary for NON CANCER
with a Unit Risk of 1.00E+00

Level	Concentration	Population	Exposure
1	2.86E+01		0.00E+00
3	1.00E+01	51	5.40E+02
4	5.00E+00	132	1.03E+03
5	2.50E+00	314	1.63E+03
6	1.00E+00	1,450	3.42E+03
7	5.00E-01	4,030	5.18E+03
8	2.50E-01	15,600	9.92E+03
9	1.00E-01	40,700	1.36E+04
10	5.00E-02	97,500	1.74E+04
11	2.50E-02	254,000	2.27E+04
12	1.00E-02	906,000	3.25E+04
13	5.00E-03	1,940,000	3.97E+04
14	2.50E-03	3,330,000	4.47E+04
15	1.00E-03	4,650,000	4.69E+04
16	5.00E-04	5,740,000	4.77E+04
17	2.50E-04	6,440,000	4.80E+04
18	1.00E-04	6,610,000	4.80E+04
19	5.00E-05	6,840,000	4.80E+04
20	2.50E-05	6,880,000	4.80E+04
21	1.00E-05	7,010,000	4.80E+04
22	5.00E-06	7,300,000	4.80E+04
23	2.50E-06	7,740,000	4.80E+04
24	1.00E-06	8,490,000	4.80E+04
25	5.00E-07	8,680,000	4.80E+04
26	2.50E-07	8,700,000	4.80E+04
27	1.00E-07	8,700,000	4.80E+04
28	5.00E-08	8,700,000	4.80E+04
29	2.50E-08	8,700,000	4.80E+04
30	1.00E-08	8,710,000	4.80E+04
31	5.00E-09	8,720,000	4.80E+04
32	2.50E-09	8,750,000	4.80E+04
33	1.00E-09	8,960,000	4.80E+04
34	5.00E-10	9,320,000	4.80E+04
35	2.73E-10	9,840,000	4.80E+04

Maximum Concentration to which any People are Actually Exposed

	1.07E+01	30	3.21E+02

Minimum Concentration to which any People are Actually Exposed

	2.80E-10	9,840,000	4.80E+04

Tuesday 27 May 2003 - 16:18:06 Report Uses 2000 Population with Single Counting of People

Summary for NON CANCER
with a Unit Risk of 1.00E+00

Level	Risk Level	Population	Exposure*Unit Risk
1	2.86E+01		0.00E+00
3	1.00E+01	51	5.40E+02
4	5.00E+00	132	1.03E+03
5	2.50E+00	314	1.63E+03
6	1.00E+00	1,450	3.42E+03
7	5.00E-01	4,030	5.18E+03
8	2.50E-01	15,600	9.92E+03
9	1.00E-01	40,700	1.36E+04
10	5.00E-02	97,500	1.74E+04
11	2.50E-02	254,000	2.27E+04
12	1.00E-02	906,000	3.25E+04
13	5.00E-03	1,940,000	3.97E+04
14	2.50E-03	3,330,000	4.47E+04
15	1.00E-03	4,650,000	4.69E+04
16	5.00E-04	5,740,000	4.77E+04
17	2.50E-04	6,440,000	4.80E+04
18	1.00E-04	6,610,000	4.80E+04
19	5.00E-05	6,840,000	4.80E+04
20	2.50E-05	6,880,000	4.80E+04
21	1.00E-05	7,010,000	4.80E+04
22	5.00E-06	7,300,000	4.80E+04
23	2.50E-06	7,740,000	4.80E+04
24	1.00E-06	8,490,000	4.80E+04
25	5.00E-07	8,680,000	4.80E+04
26	2.50E-07	8,700,000	4.80E+04
27	1.00E-07	8,700,000	4.80E+04
28	5.00E-08	8,700,000	4.80E+04
29	2.50E-08	8,700,000	4.80E+04
30	1.00E-08	8,710,000	4.80E+04
31	5.00E-09	8,720,000	4.80E+04
32	2.50E-09	8,750,000	4.80E+04
33	1.00E-09	8,960,000	4.80E+04
34	5.00E-10	9,320,000	4.80E+04
35	2.73E-10	9,840,000	4.80E+04

Maximum Risk Level to which any People are Actually Exposed

	1.07E+01	30	3.21E+02

Minimum Risk Level to which any People are Actually Exposed

	2.80E-10	9,840,000	4.80E+04

Tuesday 27 May 2003 - 16:18:06 Report Uses 2000 Population with Single Counting of People

Summary for NON CANCER
with a Unit Risk of 1.00E+00

Level	Count Level	Population	Num Groups
1	3	1,430,000	15,077
2	2	1,450,000	15,501
3	1	9,840,000	121,921
4	0	14,900,000	198,118