

## Working Spreadsheet for Time Series Graphs

## SEDIMENT METAL DATA (concentration in ug/g)

Year	Date	SB Flow	Toc %	GrSz %<100u	Ag Hcl	Ag TOT	Al Hcl	Al TOT	Al %	Cd TOT	Cr Hcl	Cr TOT	Cu Hcl	Cu TOT	Fe Hcl	Fe TOT	
1977	01/01/77	297	1.01										25.6		5502		
	02/01/77	68	1.14										26.9	50.1	5386	48100	
	03/01/77	338	1.33										32.9	46.2	6056	44300	
	04/01/77	24	1.28										29.0	51.5	7307	32700	
	05/01/77	99	0.90										35.5	55.6	7355	31800	
	06/01/77	5	0.85		1.59			26000	2.6			78	34.8	63.4	6468	41400	
	07/01/77	2															
	08/01/77	0	0.45		0.62									14.1	21.8	5006	
	09/01/77	37	0.39		0.4			16000	1.6			49	11.2	24.8	4783	27700	
	10/01/77	4															
	11/01/77	123	1.08		1.45									41.8	56.7	6443	43500
	12/01/77	837	0.80											28.1	36.2	7327	18100
1978	01/01/78	16418	1.11		0.92			22000	2.2			70	63.0	61.0	13846	57500	
	02/01/78	7177	1.76		1.34			48000	4.8			121	54.0	74.2	12767	71800	
	03/01/78	14399	1.92		1.78			32000	3.2			93	46.0	65.3	4721	51600	
	04/01/78	4428	1.57		2.48								54.4	69.1	9840	71100	
	05/01/78	387	0.70		0.98								46.5	49.1	10085	41600	
	06/01/78	68															
	07/01/78	37	0.76		1.28			30000	3.0			88	33.7	57.2	7342	72900	
	08/01/78	13	1.32										45.9	70.0	9043	50200	
	09/01/78	21	1.02		1.62								38.1	50.6	7500	13600	
	10/01/78	53			0.76												
	11/01/78	330	1.00		1.34			32000	3.2			91	38.1	59.7	7228	46800	
	12/01/78	136	1.26										45.3	69.0	8906	48500	
1979	01/01/79	2560	1.15		1.32								46.8	63.5	10370	37700	
	02/01/79	4529	1.50		1.48			40000	4.0			107	53.9	77.9	10436	56900	
	03/01/79	2913	2.06		2.6								110.0	115.0	10196	59400	
	04/01/79	636	1.26		1.58			34000	3.4			96	48.9	83.1	8690	41000	
	05/01/79	113	1.56		1.92								52.9	92.4	8074	45170	
	06/01/79	39			1.76								52.2	76.1	9102	39130	
	07/01/79	64	0.93		1.16								39.9	64.2	8226	38640	
	08/01/79	40	0.96		1.24								42.3	60.4	9168	38430	
	09/01/79	26															
	10/01/79	371	1.27		1.62			31000	3.1			93	62.6	150.0	9646	79500	
	11/01/79	283															
	12/01/79	2129	1.21		1.49								43.1	76.6	6134	41907	
1980	01/01/80	6636	1.33		1.24			46000	4.6			116	50.9	80.7	6744	42664	
	02/01/80	20693	1.47		1.69			42000	4.2			112	56.6	85.4	6608	44070	
	03/01/80	6748	1.55		1.6			45000	4.5			119	59.1	87.8	7636	50952	
	04/01/80	1536	1.19		2.06								45.3	65.9	6729	42992	
	05/01/80	195	1.13		1.48								50.7	66.8	6133	41673	
	06/01/80	107															
	07/01/80	190	1.03		1.29			29000	2.9			91	39.0	58.4	6395	45136	
	08/01/80	47	0.86		1.49								39.2	53.5	6244	34937	
	09/01/80	52															
	10/01/80	63	0.70										42.4	54.0	5908	36017	
	11/01/80	66	1.08		1.07			40000	4.0			111	38.2	55.3	6923	39197	
	12/01/80	785	1.36		0.92								45.0	56.4	8223	49924	
1981	01/01/81	2750															
	02/01/81	553	1.63		1.28								50.3	74.0	9527	50200	
	03/01/81	2048	1.75		1.39								65.5	82.0	9612	55100	
	04/01/81	147															
	05/01/81	63	1.76		1.96			48000	4.8			78	59.6	91.4	8563	55680	
	06/01/81	22	1.25		1.45								40.0	64.4	7790	42080	
	07/01/81	30	0.96		1.3								32.5	60.5	5882	40500	
	08/01/81	24	0.80		1.29								37.1	61.4		35640	
	09/01/81	28	1.09		1.44								45.6	79.6	6259	44450	
	10/01/81	321															
	11/01/81	2665	1.26		1.28								52.1		8186	54660	
	12/01/81	2728	0.98		1.31								48.6		7066	48120	
1982	01/01/82	14570															
	02/01/82	8252	1.69		0.85								40.4		7572	53610	
	03/01/82	14847	1.69										40.3	76.8	6938	52230	
	04/01/82	34299	1.50		0.7			44000	4.4			111	33.7	66.0	7053	45800	
	05/01/82	796	1.21		0.85								32.6		6520	39540	
	06/01/82	466	1.59		0.9								46.0	72.2	7902	50515	
	07/01/82	210															
	08/01/82	191															
	09/01/82	388	1.01		0.9			32000	3.2			89	30.2	56.3	7296	32218	
	10/01/82	482															
	11/01/82	3036	1.76		1.04								29.7		6913		
	12/01/82	6251	1.31		0.65								28.0		7247		
1983	01/01/83	25620															
	02/01/83	32095	1.51		0.65								27.4		6054		
	03/01/83	49406	1.38		0.75			48000	4.8			125	23.2		5064		





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Year	Date	SB Flow	Toc %	GrSz %<100u	Ag Hcl	Ag TOT	Al Hcl	Al TOT	Al %	Cd TOT	Cr Hcl	Cr TOT	Cu Hcl	Cu TOT	Fe Hcl	Fe TOT	
	12/05/95	3710		76	0.29	0.48	2160	60481	6.05	0.16	4.9	136	20.0	43.0	4974	74303	
1996	01/17/96	6329		85	0.22	0.52	2215			0.22	5.2		18.6		5171		
	02/13/96	19587	1.84	96	0.25	0.57	2284	58975	5.90	0.24	4.9	142	20.0	50.0	4864	72278	
	03/13/96	13854		98	0.34	0.65	2304	51787	5.18	0.40	4.6	122	24.0	46.0	4891	71222	
	04/10/96	2412	1.45	86	0.355	0.58	1957	61349	6.13	0.33	4.0	152	20.0	51.0	4112	64713	
		2218															
	06/18/96	601	1.00	79	0.215	0.44	1581	44358	4.44	0.26	3.4	121	15.0	38.0	3660	37494	
		442															
	09/26/96	291	1.11	84	0.14	0.34	1529	44590	4.46	0.17	3.3	118	15.0	36.0	3710	34431	
	12/09/96			70	0.14	0.41	2163	38553	3.86	0.20	4.9	104	19.0	39.0	5037	40942	
1997	01/08/97		1.43	75	0.3	0.53		51000	5.10	0.49		115	16.7	44.1		53042	
	02/19/97		1.49	92	0.5	1.07		58000	5.80	0.55		134	24.5	52.5		81476	
	03/19/97			53	0.46	0.4		50000	5.00	0.34		117	18.1	44.1		41520	
	04/14/97		1.12	86	0.28	0.53		37000	3.70	0.36		95	15.8	32.5		34786	
	06/11/97		1.69	93	0.42	0.78		47000	4.70	0.35		117	19.4	53.3		46840	
	09/17/97		0.88	54	0.23	0.52		31000	3.10	0.32		82	14.1	29.9		31127	
	10/15/97		1.04	59	0.27	0.5		35000	3.50	0.33		95	15.7	34.7		36452	
	12/09/97		1.25	84	0.23	0.5		51000	5.10	0.35		123	18.0	54.8		42901	
1998	01/07/98		1.36	94	0.19	0.5		57634	5.76	0.23		135	21.3	50.0		54780	
	02/04/98		1.52	87	0.19	0.45		21795	2.18	0.47		136	23.6	52.0		45603	
	03/03/98		1.40	91	0.35	0.41		60737	6.07	0.33		135	25.1	52.0		45033	
	04/13/98		1.32	81	0.49	0.45		59049	5.90	0.33		137	19.1	47.0		44043	
	06/15/98		1.27	67	0.42	0.42		56161	5.62	0.29		137	17.9	44.0		42268	
	09/09/98		0.71	78	0.34	0.45		41290	4.13	0.24		108	14.5	34.0		33597	
	10/20/98		0.85	74	0.33	0.55		47502	4.75	0.34		113	17.3	41.0		38556	
	12/14/98		1.26	71	0.39	0.58		56126	5.61	0.30		129	20.0	50.0		45262	
1999	01/15/99		1.43	89	0.26	0.5	2202	34000	3.40	0.18	4.3	118	18.3	49.5	4258	54000	
	02/26/99		1.45	91	0.2	0.42	2249	49000	4.90	0.42	4.4	114	21.5	48.7	5235	76000	
	03/22/99		1.48	92	0.2	0.39	2016	47000	4.70	0.19	3.9	111	18.5	44.7	4304	69000	
	04/18/99		1.55	96	0.23	0.45	2179	51000	5.10	0.20	4.1	120	17.7	48.9	4071	50000	
	05/19/99		1.13	71	0.17	0.31	1646	37000	3.70	0.25	3.1	100	15.4	37.0	3517	37000	
	06/16/99		1.22	68	0.23	0.37	1542	39000	3.90	0.24	3.0	103	17.0	40.2	3427	37000	
	09/13/99		0.98	32	0.16	0.3	1633	34000	3.40	0.19	3.5	95	14.0	33.7	3795	33000	
									0.00								
	11/23/99		1.26	61	0.2		2036	45000			4.5	110	16.4	42.7	4458	38000	
	12/20/99		1.48	95	0.3		2401	53000	5.30		5.3	123	19.0	50.0	5172	43000	
2000	01/18/00		1.40	87	0.44		2333	54000	5.40		5.1	139	20.0	45.0	5124	45000	
	02/15/00		1.50	83	0.39		2519	59000	5.90		5.3	142	22.8	50.0	5597	46000	
	03/22/00		1.40	84	0.33		2302	50000	5.00		4.9	129	21.6	43.7	5068	43000	
	04/10/00		1.50	92	0.35		2266	52500	5.25		4.5	134	19.3	45.1	4508	44000	
	06/19/00		1.10	60	0.27		1740	37000	3.70		3.3	105	15.2	34.1	4064	36000	
	09/13/00		1.00	70	0.31		1661	35000	3.50		3.3	98	15.2	30.9	4033	34000	
	11/09/00		0.90	66	0.28		1489	35000			2.9	89	13.6	26.7	3680	33000	
	12/12/00		1.20	61	0.37		1877	43000	4.30		3.8	104	17.0	33.0	4190	39000	
2001	01/09/01		1.30	59	0.35		2057	49265	4.93		4.1	119	16.6	38.3	4571	41600	
	02/05/01		1.20	68	0.27		2189	51155	5.12		5.0	116	21.7	39.0	5978	42300	
	03/05/01			71	0.55		2372	53464	5.35		4.9	121	20.2	39.9	5460	43800	
	04/10/01		1.40	88	0.54		2225	55639	5.56		4.7	123	17.9	38.7	5202	43100	
	05/08/01			79	0.41		2116	60575	6.06		4.2	131	17.8	41.0	4537	44000	
	06/12/01		1.10	61	0.36		1577	28927	2.89		3.0	90	14.4	28.3	3642	32900	
	09/18/01		0.90	41	0.48		1686	26415	2.64		2.9	76	11.6	25.5	3976	33500	
	10/15/01		1.00	61	0.43		1680	27096	2.71		3.2	83	13.9	27.2	3886	33000	
	12/11/01		1.30	84	0.47		2284	34906	3.49		4.4	102	15.8	34.0	4895	36800	
2002	01/08/02		1.0	55	0.29		1419	31667	3.17		2.1	91.5	11.9	32.4	3419	33253	
	02/08/02		1.3	62	0.36		1631	41629	4.16		2.6	120.1	12.9	40.1	3634	41632	
	03/07/02		1.5	96	0.35		1580	48709	4.87		2.6	128.0	13.6	46.5	3451	43366	

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	04/15/02		1.2	86	0.27		1348	41362	4.14		1.8	109.1	12.2	38.6	3109	38054
	05/15/02		1.3	80	0.28		1519	43317	4.33		2.2	115.0	15.4	41.3	3537	39315
	06/11/02		1.2	89	0.27		1393	36564	3.66		2.0	95.1	12.8	35.6	3409	35279
	09/09/02		0.9	65	0.24		1261	32374	3.24		1.8	90.6	11.6	32.7	3193	32597
	10/07/02		0.9	41	0.26		1298	30700	3.07		1.8	84.9	11.9	32.0	3413	31911
	12/16/02		1.3	77	0.46		1703	50614	5.06		2.5	138.5	15.8	42.7	3404	40772
<b>2003</b>	1/14/2003		1.7	95	0.65		2990	69990	7.00		2.5	188.3	24.4	43.7	6164	49451
	2/24/2003		1.5	53	0.58		2715	64084	6.41		1.4	179.6	19.8	36.7	5862	45644
	3/25/2003		1.1	79	0.46		2843	66547	6.65		2.1	184.4	22.8	41.1	6334	48030
	4/22/2003		1.4	50	0.47		2614	60254	6.03		1.7	167.3	20.2	36.9	5846	45400
	5/5/2003		1.2	48	0.47		2247	52422	5.24		0.7	144.4	17.7	31.0	5113	41454
	6/4/2003		1.3	56	0.50		2470	56055	5.61		1.1	158.8	21.2	36.4	5284	44205
	9/11/2003		1.0	25	0.41		2245	50345	5.03		0.6	157.9	16.1	28.2	4976	39258
	10/9/2003		0.8	39	0.41		1894	42871	4.29		0.1	132.2	12.7	22.1	4273	35438
	12/18/2003		1.0	48	0.47		2295	50946	5.09		1.5	152.0	15.6	27.6	4838	39963
<b>2004</b>	01/20/04		1.3	45	0.33		2297	52037	5.20		5.1	121.5	18.5	37.8	5116	42419
	02/27/04		1.4	42	0.33		2246	53442	5.34		4.8	120.6	17.2	39.3	4704	43006
	03/16/04		1.5	49	0.35		2461	57641	5.76		5.6	129.2	22.2	43.0	5856	44962
	04/12/04		1.7	49	0.35		2428	55044	5.50		5.7	125.1	20.7	41.3	5565	43855
	05/24/04		1.2	64	0.28		2123	46669	4.67		5.0	111.2	19.6	37.2	5245	39688
	06/22/04		0.9	71	0.21		1867	38781	3.88		4.3	99.6	14.9	28.6	4599	34903
	09/13/04		0.7	24	0.25		1505	38191	3.82		3.5	112.8	13.0	25.8	3800	31819
	10/13/04		8.1	28	0.18		1325	32882	3.29		3.7	91.8	12.6	21.3	3941	26645
	12/08/04		0.9	15	0.34		2289	45891	4.59		6.0	118.4	14.0	31.6	5820	39516

Working

Year	Fe %	Hg	Mn Hcl	Mn TOT	Ni Hcl	Ni TOT	Pb Hcl	Pb TOT	Se	V Hcl	V TOT	Zn Hcl	Zn TOT	
1977			1044									45.1		
	4.8		799	1202								29.7	119.0	
	4.4		491	878								40.6	122.0	
	3.3		780	1050								47.3	166.0	
	3.2		585	826								58.7	109.0	
	4.1	0.32	364	613		65		34.3			47.9	48.7	118.0	
			321									29.5	59.8	
	2.8	0.28	792	950		42.5		19.8			32.7	26.2	39.4	
	4.4		804	1627								56.0	89.7	
	1.8		1012	561								64.2	54.2	
1978	5.8	0.45	713	1046		56.5		34.5		40.5	101.0	152.0		
	7.2	0.56	1488	1634		99.6		65.1		83.4	87.9	172.0		
	5.2	0.45	812	1088		78.3		54.6		59.2	69.8	132.0		
	7.1		684	1457							65.7	173.0		
	4.2		278	536							56.4	94.9		
	7.3	0.35	283	647		69.8		39.3		55.4	59.0	112.0		
	5.0		549	924							64.4	135.0		
	1.4		850	1088							54.8	125.0		
	4.7	0.44	887	1155		74.4		40.2			49.6	170.0		
	4.9		1004	1234							70.1	159.0		
1979	3.8		788	932								65.6	123.0	
	5.7	0.42	1063	1463		88.5		48.8		68.8	79.5	156.0		
	5.9		901	1240							76.4	162.0		
	4.1	0.41	413	690		81.2		48		58.7	56.9	150.0		
	4.5		313	630							61.3	164.0		
	3.9		245	543							66.8	135.0		
	3.9		500	749							72.2	127.0		
	3.8		611	963							92.9	134.0		
	8.0	0.38	967	2400		74.5		39.9		55.1	57.1	350.0		
	4.2		990	1108							54.8	164.0		
1980	4.3	0.36	614	777		79		57.9		93.4	61.4	178.0		
	4.4	0.32	529	712		78.8		54.5		86.6	89.4	182.0		
	5.1	0.41	597	776		88.1		60.8		94.2	74.1	168.0		
	4.3		457	656							54.6	125.0		
	4.2		531	787							51.6	125.0		
	4.5	0.29	477	820		71.1		38.9		57.9	43.0	169.0		
	3.5		526	703							54.8	119.0		
	3.6		650	869							49.3	125.0		
	3.9	0.38	945	1117		78.1		45.9		82.9	72.8	124.0		
	5.0		1112	1370							62.7	143.0		
1981	5.0		1555	1770								72.2	190.0	
	5.5		1297	1516								87.7	156.0	
	5.6	0.46	1245	1244		99.7		61.4		88.5	80.4	191.0		
	4.2		345	526.7							65.8	130.0		
	4.1		511	631							51.4	128.0		
	3.6			543.5							59.3	125.0		
	4.4		344	1193							54.9	153.0		
	5.5		1539	1737							73.9	174.0		
	4.8		789	996.2							76.6	152.0		
	1982	5.4		908	1082								69.7	176.0
5.2			959	1094								57.2	169.0	
4.6		0.39	428	648.9		87.6		50.3		88.6	59.3	136.0		
4.0			360	539.2							52.8	106.0		
5.1			655	900.2								155.2		
3.2		0.36	382			72.4		39.6		62.8	48.5			
			620									47.0		
			797									76.6		
1983				694									51.6	
			0.38	556			91.4		51.2		98.4	40.7		

Working

Year	Fe %	Hg	Mn Hcl	Mn TOT	Ni Hcl	Ni TOT	Pb Hcl	Pb TOT	Se	V Hcl	V TOT	Zn Hcl	Zn TOT
	2.9		881	546								59.2	188.0
	2.6	0.33	438	665		80		39			64.3	42.1	132.0
	3.2		985	1114								60.6	167.0
	3.0		1077	589								58.3	164.0
	3.5		1071	697								45.3	194.0
<b>1984</b>			791									51.7	320.8
	3.0		853	628								60.1	189.8
	2.7		1231	686								46.1	132.0
	3.1		838	567								56.6	148.0
	2.9		262	316								52.5	137.2
			557									41.8	
	3.8		1302	1122								79.3	160.9
<b>1985</b>													
	2.9		1315	852								70.0	164.6
	2.9		833.9	708								53.1	121.8
	3.0		1260	851								158.6	163.0
	2.9		961	489								45.5	114.0
	3.0		732	406								72.6	117.3
	3.5		946	1072								46.7	106.8
<b>1986</b>	3.6		958	1175								45.9	130.8
	5.4		809	1254								72.4	155.3
	4.4		975	1114								62.8	177.2
	4.3		1175	1394								58.4	142.5
	2.3		664	544								33.2	88.7
	3.7		684	652								45.6	138.5
	3.1		772	988								41.1	121.3
	3.7		730	1058									0.1
	3.5		1513	1869								53.9	137.1
	3.9		1345	1432.8								63.3	156.4
	2.5		1376	1503.6								49.2	109.2
	4.5		1449	1776.6								58.3	150.5
<b>1987</b>	4.2		1246	1716.3								47.2	132.0
	3.8		986	1137								52.1	134.4
	4.5		1453	1917.1								61.5	152.9
	4.9		920	1247								70.9	155.1
	3.5		354.7	627.1								45.7	270.3
	3.7		885.1	1171.9								59.2	306.3
	3.5		519.8	783.5								47.9	0.4
	3.2		552.8	787.9								49.6	115.1
	2.9		745.1	902.5								49.3	114.6
	3.5		1225.2	1382.9									0.8
<b>1988</b>	4.1		1303.3	1708.5								54.4	0.7
	5.3		1248.8	1537.2								64.6	161.8
	3.8		1471	1370.8								89.4	123.8
	4.8		1304.1	1516.7								76.1	134.2
	4.5		710.1	875.9									0.2
	4.9		890.9	1126.9								117.0	0.9
	3.9		665.7	836.7								44.1	120.4
	3.6		550.3	791.9									101.8
	3.8		544.9	836.4								53.2	262.5
	4.4		955.2	1162								56.7	0.4
	4.8		1338.6	1552.2								51.3	207.0
<b>1989</b>	5.1		951.8	1391.6								55.8	159.4
	5.2		921.4	1389.4								71.0	182.8
	4.9		1520.9	1566.9									164.1
	4.8		769.2	900.5								73.7	158.7
	4.1		428.5	606.9								63.5	131.7

Working

Year	Fe %	Hg	Mn Hcl	Mn TOT	Ni Hcl	Ni TOT	Pb Hcl	Pb TOT	Se	V Hcl	V TOT	Zn Hcl	Zn TOT
	3.6		616.7	699.2								72.5	121.2
	2.1		1023	631.1								43.1	
	4.4		1149.1	1526.9								36.5	137.6
1990	4.5		1291.3	1426.6								68.0	134.8
	5.2		1250	1544.3								55.6	165.3
	5.6		1188.2	1505.2								113.4	170.1
	4.8		802.4	1219.8	10.41	110.57	31.45	36.65		15.6	106.0	61.8	162.9
	4.3		433.7	780	9.81	98.66	26.34	29.4		12.9	115.6	58.0	148.3
	4.5		623.6	1035.9	9.36	99.86	24.82	25.45		12.3	103.5	50.7	148.1
	0.0												
	4.2		774.8	1037.8	9.06	95.03	28.33	34.25		12.6	95.7	51.4	142.3
	4.4		970	1523.2	7.89	101.54	23.77	29.86		10.5	85.3	46.7	147.2
	0.0												
	4.3		908.9	1243.1	9.27	100.81	27.73	31.88		14.2	118.9	48.5	147.2
1991	4.6		1088.6	1483.3	9.34	110.71	33.37	35.09		15.9	133.9	57.2	164.4
	4.7		1226	1529.1	10.82	117.03	40.15	40.77		16.9	117.1	70.6	179.6
	4.2		1174.6	1500.6	11.71	98.94	34.88	38.61		15.4	96.0	59.4	152.9
	4.6		787.9	1105.5	10.87	103.57	30.87	38.61		15.8	94.0	55.9	155.4
	4.9		876.7	1075.2	12.19	107.1	37.29	37.82		15.9	118.7	68.5	152.3
	4.5		628.5	938.5	10.77	96.45	28.53	33.15		13.5	118.7	54.9	125.2
	4.0		553.7	802.9	9.72	90.2	28.6	34.2		12.0	84.9	54.9	103.0
	4.2		505.6	817.3	10	85.55	26.02	33.96		11.7	92.4	53.2	131.8
	4.1		637.7	979.8	8.17	87.3	25.32	30.86		10.3	78.4	55.7	115.2
	5.3		1414	1843.5	9.77	116.98	33.07	46.46		15.5	130.1	58.7	100.1
1992	5.7		1232.7	1724.1	10.79	125.86	35.08	51		16.6	72.1	72.1	167.0
	5.5		1133.5	1662.9	10.16	122.34	33.96	50.74		14.5	118.5	48.9	166.1
	4.9		1523.3	1163.9	21.06	109.56	59.68	48.19		28.4	92.2	121.1	160.3
	4.7		1399.5	1743.6	11.13	106.89	30.51	40.65		14.4	79.4	63.2	153.5
	2.9		807.9	844.4	8.76	66.14	26.73	22.47		11.5	60.7	51.7	103.3
	4.2		663.9	946.1	8.57	101.11	30.71	34.26		11.8	114.5	54.6	146.8
	3.7		728	952.5	9.82	81.3	25.92	29.96		11.4	106.5	50.2	126.8
	4.0		1275.4	1632.8	6.14	90.92	28.6	29.31		9.0	97.1	44.4	133.4
	4.5		1786.8	2176.1	8.28	107.08	33.76	41.48		13.6	110.6	60.8	193.7
	4.1		1450.6	1452.3	10.23	91.64	33.86	43.21		16.4	97.3	67.9	139.8
1993	4.5		1261.4	1385.8	10.7	101	38.79	49.46		15.2	115.0	61.3	156.7
	4.2		1067.7	1335.5	8.64	91	30.81	34.62		13.6	92.6	46.9	143.5
	4.0		1291.3	1541.6	9.25	94	30.73	34.75		12.4	100.0	51.7	135.9
	4.1		1100.7	1453.6	8.443	97	29.098	39.769		11.7	75.6	55.8	150.2
	3.6		617.3	789.6	9.492	86	28.854	38.035		12.2	66.5	52.6	125.8
	3.9		1178.204	1396.583	9.617	95	29.776	38.723		12.9	78.7	58.0	138.0
	7.8		747.323	1078.971	8.997	102	29.958	38.339		12.6	100.5	55.0	136.0
	3.8		728.834	990.965	5.716	85	26.186	37.574		9.3	82.2	36.0	115.0
	3.9		450.548	738.2	7.514	90	27.027	39.346		10.3	80.1	42.0	116.0
	3.8		524.636	792.469	7.146	86	26.002	37.897		10.2	81.0	43.0	117.0
	3.8		536.987	795.341	6.579	85	26.287	38.3		9.9	82.1	41.0	119.0
1994	7.5		730.546	1053.934	8.1	97	30.283	41.261		13.6	96.5	48.0	148.0
	4.8	0.34	870.55	1202.762	8.601	107	34.099	49.036		14.7	95.5	53.0	156.0
	5.3		722.261	1012.692	7.201	90	27.657	36.531		11.0	79.9	46.0	137.0
	5.4	0.23	450.862	714.513	8.088	92	28.397	36.732		12.1	88.8	51.0	134.0
	4.2		508.487	796.742	7.32	94	27.995	40.086		10.5	87.7	46.0	136.0
	3.4	0.33	520.651	863.252	4.551	78	17.573	31.105		6.8	65.8	29.0	106.0
	3.8		862.041	1154.818	4.876	85.224	22.461	35.568		7.4	93.3	35.0	126.0
	4.1		1131.342	1277.548	7.962	95	29.775	42.277		13.3	105.7	49.0	145.0
1995	4.9		865.61	1177.583	9.527	99	27.341	50.193		12.9	104.4	50.0	149.0
	7.3	0.42	934.203	1232.152	8.111	97	27.793	40.874		11.2	97.5	48.0	145.0
	7.9		673.404	1005.358	10.427	108	27.983	41.372		12.9	115.6	47.0	157.0
	7.3	0.34	457.331	765.777	9.685	103	23.78	40.035		10.6	113.2	45.0	143.0
	3.4	0.29	425.528	685.186	6.306	78.236	19.581	38.024		6.6	74.4	34.0	112.0
	6.1		706.656	960.538	8.088	98.109	27.714	39.628		10.0	76.0	46.0	131.5
	3.7	0.3	357.696	640.072	7.957	84.066	22.711	36.593		7.9	59.1	41.0	117.0
	3.7	0.3	594.244	888.713	8.224	87	23.769	36.731		8.6	62.5	43.0	117.0
	4.0		870	1147	8.388	90	26.85	36.426		9.8	92.7	46.0	138.0



Working

Year	Fe %	Hg	Mn Hcl	Mn TOT	Ni Hcl	Ni TOT	Pb Hcl	Pb TOT	Se	V Hcl	V TOT	Zn Hcl	Zn TOT
	7.4		999	1308	7.822	107	28.643	37.091		10.5	102.5	46.0	148.0
1996		0.33	885		8.3		27.807		0.5	10.6		47.0	
	7.2	0.3	1077	1463	8.5	109	30.046	44.45	0.6	11.8	104.0	49.0	166.0
	7.1	0.29	1129	1201	10	95	31.718	39.858	0.6	13.0	95.0	57.0	141.0
	6.5	0.26	465	829	8.1	102	25.644	45.378	0.5	10.0	103.0	44.0	150.0
	3.7	0.21	347	663	6.3	83	20.843	37.564	0.3	7.2	85.0	39.0	125.0
	3.4	0.22	406	684	5.6	78	21.23	37.558	0.3	6.7	88.0	33.0	115.0
	4.1	0.28	834	1175	7.6	97	25.892	41.328	0.4	9.9	67.0	45.0	139.0
1997	5.3	0.3		895		86.1			0.5		97.3	37.5	134.0
	8.1	0.39		1089		116			0.4		97.2	48.8	154.0
	4.2	0.41		975		93			0.2		95.0	40.6	133.0
	3.5	0.29		801		77.9			0.4		73.3	37.0	103.0
	4.7	0.38		1093		109			0.4		78.9	50.2	159.0
	3.1	0.26		646		72.5			0.3		51.7	35.5	104.0
	3.6	0.3		763		82.5			0.3		65.2	38.7	114.0
	4.3	0.31		974		97.4			0.4		94.3	42.8	138.0
1998	5.5	0.34		1226		108			0.5		102.0	50.1	147.0
	4.6	0.28		1073		98			0.6		109.0	50.8	151.0
	4.5	0.34		884		103			0.6		102.0	50.0	149.0
	4.4	0.3		941		97			0.5		113.0	41.6	137.0
	4.2	0.32		613		91			0.5		108.0	40.1	133.0
	3.4	0.26		599		71			0.3		84.0	34.1	108.0
	3.9	0.34		825		86			0.3		91.0	40.5	121.0
	4.5	0.38		1123		102			0.4		105.0	46.5	142.0
1999	5.4	0.41	736	1013	7.3	91.3	24.9	49.3	0.4	10.6	89.7	39.9	132.0
	7.6	0.25	710	997	8.2	91.2	24.3	40.4	0.7	11.8	82.1	40.6	134.0
	6.9	0.34	791	1046	7.3	85.9	23.5	40.1	0.6	10.0	72.7	40.4	126.0
	5.0	0.3	924	1238	6.8	97.9	24.2	48.1	0.5	11.0	94.7	39.3	138.0
	3.7	0.24	385	685	5.6	82.9	19.2	41.7	0.4	8.1	71.1	32.5	115.0
	3.7	0.34	382	722	5.9	85.9	19.2	45.1	0.3	7.1	71.4	31.2	119.0
	0.0												
	3.3	0.25	661	909	6.3	77	19.7	41.5	0.2	6.8	64.2	34.9	106.0
	3.8	0.34	1013	1310	7.6	91.3	22.6	45.5	0.3	9.1	81.2	39.4	124.0
	4.3	0.33	1323	1596	8.8	104	25	50.3	0.4	11.5	92.6	47.2	142.0
2000	4.5	0.33	1162	1638	7.18	103	20.1	32.9	0.4	11.8	122.9	41.1	139.0
	4.6	0.29	969	1380	8.64	104.5	20.4	33.7	0.5	13.1	131.2	46.1	148.0
	4.3	0.29	646	979	8.18	97.2	19.7	30.9	0.4	11.8	117.2	44.4	136.0
	4.4	0.29	895	1284	7.69	98.1	18.8	31.1	0.5	11.1	124.4	41.2	138.0
	3.6	0.3	360	638	6.15	80.5	15.8	25	0.3	8.1	95.9	35.8	110.0
	3.4	0.27	569	821	5.84	76.2	16.7	24.7	0.3	8.0	91.0	33.6	103.0
	3.3	0.26	650	934	5.53	72.4	17.3	25.2	0.3	7.1	73.4	27.9	82.3
	3.9	0.3	826	1215	6.29	84.2	19.1	28.8	0.3	8.7	86.0	31.5	97.3
2001	4.2	0.29	963	1360	6.77	93.9	20.7	32	0.3	9.8	103.0	30.6	104.0
	4.2	0.43	417	732	10.2	97.1	21	31.9	0.4	15.1	101.0	36.4	98.7
	4.4		954	1300	8.72	95.7	22.9	33.6		12.0	104.0	42.9	113.0
	4.3	0.31	1138	1586	7.51	93	21	32.1	0.4	10.8	110.0	37.9	108.0
	4.4		562	944	6.89	93.5	20.3	32.9		10.2	121.0	38.6	112.0
	3.3	0.27	472	767	5.55	75.6	17.6	23.8	0.3	7.4	70.0	31.2	107.0
	3.4		665	976	5.44	76	17.4	24.5		7.7	71.8	29.1	94.6
	3.3	0.35	613	896	6.08	75	16.7	23	0.3	8.1	71.3	28.2	93.7
	3.7	0.27	976	1358	6.66	83.8	19.3	27.2	0.3	10.4	81.5	37.5	122.0
2002	3.3	0.26	625	934	5.3	74.5	15.8	23.7	0.3	7.2	70.1	28.8	95.4
	4.2	0.31	890	1341	5.5	93.5	18.2	29.9	0.4	9.2	85.4	32.1	124.1
	4.3	0.34	871	1451	5.2	97.9	16.4	31.9	0.4	8.6	93.6	32.8	132.4

Working

Year	Fe %	Hg	Mn Hcl	Mn TOT	Ni Hcl	Ni TOT	Pb Hcl	Pb TOT	Se	V Hcl	V TOT	Zn Hcl	Zn TOT
	3.8		419	802	5.0	84.6	15.5	27.0		6.9	86.4	29.4	110.6
	3.9	0.28	459	810	5.5	88.2	17.3	27.8	0.4	7.8	87.2	34.8	116.2
	3.5		372	688	5.2	78.6	14.8	24.8		6.7	76.2	30.5	102.6
	3.3	0.25	399	727	5.1	72.7	13.8	22.7	0.3	5.8	68.7	28.0	92.6
	3.2		422	695	5.6	71.2	13.9	21.2		6.1	66.3	28.0	91.5
	4.1	0.4	864	1348	5.5	91.7	19.0	30.8	0.3	8.4	130.2	33.7	124.3
<b>2003</b>	4.9	0.24	1009	1492	7.7	104.3	17.8	35.0	0.48	12.7	165.7	55.3	158.8
	4.6	0.29	995	1411	6.9	95.7	16.8	30.8	0.38	11.3	152.2	50.1	140.6
	4.8		544	898	7.8	101.2	18.4	33.7		12.6	158.6	55.1	151.8
	4.5	0.30	509	868	7.0	94.8	16.8	30.9	0.42	10.6	151.6	51.8	139.1
	4.1		515	849	6.2	85.6	15.8	28.4		9.0	139.5	46.0	119.8
	4.4	0.31	447	777	6.3	91.1	16.6	31.3	0.45	9.2	145.8	51.5	133.7
	3.9	0.29	422	721	6.2	79.8	14.8	26.2	0.26	8.2	127.1	44.0	112.4
	3.5		564	866	5.5	71.9	13.8	23.6		7.1	120.0	36.8	98.5
	4.0	0.27	589	942	6.1	81.7	14.9	25.1	0.27	8.6	131.9	42.8	114.7
<b>2004</b>	4.2	0.46	856	1211	7.5	88.9	18.3	31.3	0.8	10.0	122.2	44.6	134.8
	4.3	0.44	778	1151	7.4	88.4	18.5	32.0	0.7	10.1	126.2	42.1	139.5
	4.5		759	1105	8.9	91.2	19.6	32.6		11.0	141.8	51.2	147.0
	4.4	0.49	984	1338	7.9	91.6	19.1	33.8	0.6	11.1	109.6	49.8	140.3
	4.0		406	696	7.4	83.4	17.8	29.4		9.0	111.7	43.6	125.3
	3.5	0.4	328	580	6.6	71.7	14.8	25.2	0.3	7.7	98.0	36.3	104.3
	3.2	0.4	304	552	5.5	62.0	13.8	23.4	0.3	6.2	101.3	31.5	92.5
	2.7		230	434	6.3	51.7	5.0	18.8		5.6	85.7	30.3	80.8
	4.0	0.24	551	874	8.5	75.0	16.7	29.3	0.4	9.2	119.8	43.8	111.8