

Appendix A

Solid Waste Volumes/Weights into The City of Delta Junction Landfill
1 July 2000 to 30 December 2000

SOLID WASTE DATA COLLECTED BY DELTA SANITATION

Public Disposal Data (Saturdays)				
Date	Volume of waste (cubic yards)	Average unit weight (lb/yd ³)	Weight of waste (lbs)	Weight of waste (tons)
September 2, 2000	30	150	4500.0	2.25
September 9, 2000	28	150	4200.0	2.1
September 16, 2000	25	150	3750.0	1.875
September 23, 2000	13	150	1950.0	0.975
September 30, 2000	17	150	2550.0	1.275
October 7, 2000	10	150	1500.0	0.75
October 14, 2000	9	150	1350.0	0.675
October 21, 2000	8	150	1200.0	0.6
October 28, 2000	13	150	1950.0	0.975
November 4, 2000	10	150	1500.0	0.75
November 11, 2000	9	150	1350.0	0.675
November 18, 2000	11	150	1650.0	0.825
November 25, 2000	6	150	900.0	0.45
December 2, 2000	No data	150	0.0	0
December 9, 2000	4	150	600.0	0.3
December 16, 2000	4	150	600.0	0.3
December 23, 2000	5	150	750.0	0.375
December 30, 2000	7	150	1050.0	0.525

Totals for 17 Weeks: **31350.00** **15.68**

Average per week (17 weeks): **1844.12** **0.92**

Estimated Annual Tonnage: **52 weeks * 0.92=** **47.947**

Daily Annual Average Tonnage: **47.947 tons/365 days=** **0.131**

Note: Average unit weight of waste used for calculations is 150 lb/yd³ due to waste not being compacted.

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Date	Day	Volume of waste (cubic yards)	Average unit weight ⁽⁶⁾ (lb/yd ³)	Weight with truck ⁽³⁾ (lbs)	Weight of waste (lbs)	Weight of waste (tons)	Weekly total (tons)
July 2, 2000	Sunday					0.0	
July 3, 2000	Monday				18,570.0	9.3	
July 4, 2000	Tuesday				9,600.0	4.8	
July 5, 2000	Wednesday				8,250.0	4.1	
July 6, 2000	Thursday					0.0	
July 7, 2000	Friday				21,440.0	10.7	
July 8, 2000	Saturday					0.0	28.9
July 9, 2000	Sunday					0.0	
July 10, 2000	Monday			77,000	13,400.0	6.7	
July 11, 2000	Tuesday			36,580	4,780.0	2.4	
July 12, 2000	Wednesday			45,000	13,200.0	6.6	
July 13, 2000	Thursday					0.0	
July 14, 2000	Friday			44,010	12,210.0	6.1	
July 15, 2000	Saturday					0.0	21.8
July 16, 2000	Sunday					0.0	
July 17, 2000	Monday			86,420	22,820.0	11.4	
July 18, 2000	Tuesday			41,180	9,380.0	4.7	
July 19, 2000	Wednesday			79,400	15,800.0	7.9	
July 20, 2000	Thursday					0.0	
July 21, 2000	Friday			42,160	10,360.0	5.2	
July 22, 2000	Saturday					0.0	29.2
July 23, 2000	Sunday					0.0	
July 24, 2000	Monday			84,630	21,030.0	10.5	
July 25, 2000	Tuesday			40,280	8,480.0	4.2	
July 26, 2000	Wednesday			42,020	10,220.0	5.1	
July 27, 2000	Thursday					0.0	
July 28, 2000	Friday			43,290	11,490.0	5.7	
July 29, 2000	Saturday					0.0	25.6
July 30, 2000	Sunday					0.0	
July 31, 2000	Monday			84,050	20,450.0	10.2	
August 1, 2000	Tuesday					6.0	
August 2, 2000	Wednesday					5.8	
August 3, 2000	Thursday					0.0	
August 4, 2000	Friday					7.3	
August 5, 2000	Saturday					0.0	29.2
August 6, 2000	Sunday					0.0	
August 7, 2000	Monday					9.5	
August 8, 2000	Tuesday					2.5	
August 9, 2000	Wednesday					7.5	
August 10, 2000	Thursday					0.0	
August 11, 2000	Friday					4.0	
August 12, 2000	Saturday					0.0	23.5
August 13, 2000	Sunday					0.0	
August 14, 2000	Monday					7.3	

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August 15, 2000	Tuesday					3.5	
August 16, 2000	Wednesday					7.3	
August 17, 2000	Thursday					0.0	
August 18, 2000	Friday					7.8	
August 19, 2000	Saturday					0.0	25.8
August 20, 2000	Sunday					0.0	
August 21, 2000	Monday					7.3	
August 22, 2000	Tuesday					5.5	
August 23, 2000	Wednesday					8.3	
August 24, 2000	Thursday					6.0	
August 25, 2000	Friday					0.0	
August 26, 2000	Saturday					0.0	27.0
August 27, 2000	Sunday					0.0	
August 28, 2000	Monday					8.0	
August 29, 2000	Tuesday					5.2	
August 30, 2000	Wednesday					7.5	
August 31, 2000	Thursday					0.0	
September 1, 2000	Friday					0.0	
September 2, 2000	Saturday					0.0	20.7
September 3, 2000	Sunday					0.0	
September 4, 2000	Monday					0.0	
September 5, 2000	Tuesday					0.0	
September 6, 2000	Wednesday					0.0	
September 7, 2000	Thursday					0.0	
September 8, 2000	Friday					0.0	
September 9, 2000	Saturday	NO DATA COLLECTED FOR THIS WEEK				0.0	0.0
September 10, 2000	Sunday					0.0	
September 11, 2000	Monday	31	404.0		12,525.1	6.3	
September 12, 2000	Tuesday	10	404.0		4,040.4	2.0	
September 13, 2000	Wednesday	20	404.0		8,080.7	4.0	
September 14, 2000	Thursday		404.0		0.0	0.0	
September 15, 2000	Friday	30	404.0		12,121.1	6.1	
September 16, 2000	Saturday		404.0		0.0	0.0	18.4
September 17, 2000	Sunday		404.0		0.0	0.0	
September 18, 2000	Monday	32	404.0		12,929.2	6.5	
September 19, 2000	Tuesday	18	404.0		7,272.7	3.6	
September 20, 2000	Wednesday	30	404.0		12,121.1	6.1	
September 21, 2000	Thursday		404.0		0.0	0.0	
September 22, 2000	Friday	20	404.0		8,080.7	4.0	
September 23, 2000	Saturday		404.0		0.0	0.0	20.2
September 24, 2000	Sunday		404.0		0.0	0.0	
September 25, 2000	Monday	31	404.0		12,525.1	6.3	
September 26, 2000	Tuesday	18	404.0		7,272.7	3.6	
September 27, 2000	Wednesday	31	404.0		12,525.1	6.3	

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Date	Day	Volume of waste (cubic yards)	Average unit weight ⁽⁶⁾ (lb/yd ³)	Weight with truck ⁽³⁾ (lbs)	Weight of waste (lbs)	Weight of waste (tons)	Weekly total (tons)
September 28, 2000	Thursday		404.0		0.0	0.0	
September 29, 2000	Friday	20	404.0		8,080.7	4.0	
September 30, 2000	Saturday		404.0		0.0	0.0	20.2
October 1, 2000	Sunday		404.0		0.0	0.0	
October 2, 2000	Monday	38	404.0		15,353.4	7.7	
October 3, 2000	Tuesday	20	404.0		8,080.7	4.0	
October 4, 2000	Wednesday	34	404.0		13,737.3	6.9	
October 5, 2000	Thursday		404.0		0.0	0.0	
October 6, 2000	Friday	18	404.0		7,272.7	3.6	
October 7, 2000	Saturday		404.0		0.0	0.0	22.2
October 8, 2000	Sunday		404.0		0.0	0.0	
October 9, 2000	Monday	18	404.0		7,272.7	3.6	
October 10, 2000	Tuesday	18	404.0		7,272.7	3.6	
October 11, 2000	Wednesday	34	404.0		13,737.3	6.9	
October 12, 2000	Thursday		404.0		0.0	0.0	
October 13, 2000	Friday	33	404.0		13,333.2	6.7	
October 14, 2000	Saturday		404.0		0.0	0.0	20.8
October 15, 2000	Sunday		404.0		0.0	0.0	
October 16, 2000	Monday	31	404.0		12,525.1	6.3	
October 17, 2000	Tuesday	18	404.0		7,272.7	3.6	
October 18, 2000	Wednesday	31	404.0		12,525.1	6.3	
October 19, 2000	Thursday		404.0		0.0	0.0	
October 20, 2000	Friday	18	404.0		7,272.7	3.6	
October 21, 2000	Saturday		404.0		0.0	0.0	19.8
October 22, 2000	Sunday		404.0		0.0	0.0	
October 23, 2000	Monday	34	404.0		13,737.3	6.9	
October 24, 2000	Tuesday	18	404.0		7,272.7	3.6	
October 25, 2000	Wednesday	31	404.0		12,525.1	6.3	
October 26, 2000	Thursday		404.0		0.0	0.0	
October 27, 2000	Friday	20	404.0		8,080.7	4.0	
October 28, 2000	Saturday		404.0		0.0	0.0	20.8
October 29, 2000	Sunday		404.0		0.0	0.0	
October 30, 2000	Monday	38	404.0		15,353.4	7.7	
October 31, 2000	Tuesday	16	404.0	37,610	5,810.0	2.9	
November 1, 2000	Wednesday	34	404.0	76,080	12,480.0	6.2	
November 2, 2000	Thursday		404.0		0.0	0.0	
November 3, 2000	Friday	18	404.0	41,100	9,300.0	4.7	
November 4, 2000	Saturday		404.0		0.0	0.0	21.5
November 5, 2000	Sunday		404.0		0.0	0.0	
November 6, 2000	Monday	18	404.0	39,160	7,360.0	3.7	
November 7, 2000	Tuesday	38	404.0		15,353.4	7.7	
November 8, 2000	Wednesday	20	404.0		8,080.7	4.0	
November 9, 2000	Thursday		404.0		0.0	0.0	
November 10, 2000	Friday	26	404.0		10,505.0	5.3	

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November 11, 2000	Saturday		404.0		0.0	0.0	20.6
November 12, 2000	Sunday		404.0		0.0	0.0	
November 13, 2000	Monday	38	404.0		15,353.4	7.7	
November 14, 2000	Tuesday	20	404.0		8,080.7	4.0	
November 15, 2000	Wednesday	36	404.0		14,545.3	7.3	
November 16, 2000	Thursday		404.0		0.0	0.0	
November 17, 2000	Friday	20	404.0		8,080.7	4.0	
November 18, 2000	Saturday		404.0		0.0	0.0	23.0
November 19, 2000	Sunday		404.0		0.0	0.0	
November 20, 2000	Monday	16	404.0		6,464.6	3.2	
November 21, 2000	Tuesday	18	404.0		7,272.7	3.6	
November 22, 2000	Wednesday	33	404.0		13,333.2	6.7	
November 23, 2000	Thursday		404.0		0.0	0.0	
November 24, 2000	Friday	18	404.0		7,272.7	3.6	
November 25, 2000	Saturday		404.0		0.0	0.0	17.2
November 26, 2000	Sunday		404.0		0.0	0.0	
November 27, 2000	Monday	33	404.0		13,333.2	6.7	
November 28, 2000	Tuesday	16	404.0		6,464.6	3.2	
November 29, 2000	Wednesday	34	404.0		13,737.3	6.9	
November 30, 2000	Thursday		404.0		0.0	0.0	
December 1, 2000	Friday	20	404.0		8,080.7	4.0	
December 2, 2000	Saturday		404.0		0.0	0.0	20.8
December 3, 2000	Sunday		404.0		0.0	0.0	
December 4, 2000	Monday	32	404.0		12,929.2	6.5	
December 5, 2000	Tuesday	20	404.0		8,080.7	4.0	
December 6, 2000	Wednesday	34	404.0		13,737.3	6.9	
December 7, 2000	Thursday		404.0		0.0	0.0	
December 8, 2000	Friday	18	404.0		7,272.7	3.6	
December 9, 2000	Saturday		404.0		0.0	0.0	21.0
December 10, 2000	Sunday		404.0		0.0	0.0	
December 11, 2000	Monday	36	404.0		14,545.3	7.3	
December 12, 2000	Tuesday	18	404.0		7,272.7	3.6	
December 13, 2000	Wednesday	18	404.0		7,272.7	3.6	
December 14, 2000	Thursday		404.0		0.0	0.0	
December 15, 2000	Friday	34	404.0		13,737.3	6.9	
December 16, 2000	Saturday		404.0		0.0	0.0	21.4
December 17, 2000	Sunday		404.0		0.0	0.0	
December 18, 2000	Monday	32	404.0		12,929.2	6.5	
December 19, 2000	Tuesday	18	404.0		7,272.7	3.6	
December 20, 2000	Wednesday	18	404.0		7,272.7	3.6	
December 21, 2000	Thursday		404.0		0.0	0.0	
December 22, 2000	Friday	16	404.0		6,464.6	3.2	
December 23, 2000	Saturday		404.0		0.0	0.0	17.0
December 24, 2000	Sunday		404.0		0.0	0.0	

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Date	Day	Volume of waste (cubic yards)	Average unit weight ⁽⁶⁾ (lb/yd ³)	Weight with truck ⁽³⁾ (lbs)	Weight of waste (lbs)	Weight of waste (tons)	Weekly total (tons)
December 25, 2000	Monday		404.0		0.0	0.0	
December 26, 2000	Tuesday	38	404.0		15,353.4	7.7	
December 27, 2000	Wednesday	34	404.0		13,737.3	6.9	
December 28, 2000	Thursday		404.0		0.0	0.0	
December 29, 2000	Friday		404.0		0.0	0.0	
December 30, 2000	Saturday		404.0		0.0	0.0	14.5
Totals for 25 Weeks:					870,465.0	551.2	551.2
Average per week (25 weeks):					34,818.6	22.0	22.0

Estimated Annual Tonnage Collected: 52 weeks * 22 tons= 1146.5
 Estimated Annual Tonnage for Saturdays: 52 weeks * 0.922 tons= 47.9
Total Annual Solid Waste Tonnage: 1194.5

Daily Annual Average Tonnage Collected: 1146.5 tons/365 days= 3.14
 Daily Annual Average Tonnage for Saturdays: 47.95 tons/365 days= 0.13
Total Daily Annual Average Tonnage: 3.27

Total Daily Annual Average Volume (cubic yards): 17.3
 $3.14 \text{ tons} * (2000 \text{ lb/ton}) / (404 \text{ lb/yd}^3) + 0.13 \text{ tons} * (2000 \text{ lb/ton}) / (150 \text{ lb/yd}^3)$

CALCULATIONS FOR DETERMINING AVERAGE UNIT WEIGHT

Date	Day	Volume of waste (cubic yards)	Weight with truck (lbs)	Weight of waste (lbs)	Weight of waste (tons)	Unit weight (lb/yd ³)
October 31, 2000	Tuesday	16	37610	5810.0	2.9	363.1
November 1, 2000	Wednesday	34	76080	12480.0	6.2	367.1
November 3, 2000	Friday	18	41100	9300.0	4.7	516.7
November 6, 2000	Monday	18	39160	7360.0	3.7	408.9
January 8, 2001	Monday	18	38360	6560.0	3.3	364.4
Average Unit Weight (lb/yd³)=Total Unit Weight/5:						404.0

Notes:

1. Data collection methods varied. Some data was collected as weight of waste in pounds, some as weight in tons, and some as volume in cubic yards. Data was all converted to tons of waste.
2. For days where both volume and weight data were collected, the tonnage used was based on weight data. Data for these days is highlighted.
3. Truck weight is 31,800 pounds.
4. Average unit weight of waste for Saturdays used for calculations is 150 lb/yd³ due to waste not being compacted.
5. Data may not appear to add up correctly due to rounding of numbers for presentation.
6. Average unit weight was generated from the above table "Calculations for Determining Average Unit Weight."