

Chapter 3: Springfield

COMMUNITY PROFILE

Springfield is the third largest city in Missouri. It is the county seat of Greene County and is a member of Solid Waste Management District "O". The City has a large industrial base, and is a regional service and retail center for several surrounding counties. Springfield is also the home of Southwest Missouri State University, several private universities, and the world headquarters for the Assembly of God Church.

Springfield is located on Interstate 44. It is 215 miles southwest of St. Louis and 167 miles southeast of Kansas City.

Demographics:

| | Springfield | Greene County |
|-----------------------------|--------------------|----------------------|
| Area (sq. miles) | 68 | 675 |
| Population (1992) | 145,438 | 215,072 |
| Density (per sq. mile) | 2,139 | 319 |
| Pop. Change since 1980 | 9.3% | 16.1% |
| Number of households | 57,353 | 81,463 |
| Persons per household | 2.28 | 2.43 |
| High school graduates | 77.0% | 78.9% |
| Median Family Income | \$27,705 | \$30,153 |
| Percent below poverty level | 17.8% | 9.2% |

Solid waste collection

Solid waste is collected by several private waste haulers in Springfield. The City licenses the haulers but does not franchise or set up collection zones. All waste haulers are required to offer curbside recycling but residents are not required to recycle.

Solid waste disposal

The City of Springfield owns and operates its own landfill, which is located north of the city on Highway 13. They receive approximately 140,000 tons of waste per year. The current tipping fee at the landfill is \$27.50 per ton. Two private haulers, Waste Management and BFI, own and operate transfer stations within the city limits. Waste management sends most of their waste to their own landfill in Hartsville, Missouri and BFI sends a large portion of their waste to their landfill in Lamar Missouri.

Waste reduction and recycling programs

Springfield has an active recycling and waste reduction program. Four drop-off sites were established throughout the city to collect recyclable materials, and all licensed trash haulers in Springfield offer curbside collection of recyclables. In 1995, 5800 tons of recyclables were collected through the drop-off and curbside programs.

Springfield also operates a composting site and a household chemical collection center. The city offers many education programs to area businesses and schools in an effort to increase community awareness of waste reduction.

Springfield Results

Information about sample size and composition are listed in tables 3-1 through 3-8.

All weights are listed in pounds and all volumes are in cubic feet.

SORT #1

Sort Conditions

The first sort was conducted February 7th through the 9th. A surface close to the tipping area was leveled and covered with gravel for an even surface to set up the sort facility. The weather for all days was sunny and mild, with moderate winds.

| Statistics | |
|--|---------|
| Estimated MSW (lbs) Collected by Site During Sampling Period | 188,000 |
| Total Sample Weight (lbs) | 2,654 |
| Significance Test Results | .000 |
| Number of Samples Collected | 14 |

| OTHER WASTE CATEGORIES | | | |
|--|----|--|----|
| Over-the-counter Medication (OTC) | 0 | Beauty/Hygiene Aerosol Products | 0 |
| Prescription Medication (Rx) | 1 | Household Cleaning Aerosol Products | 0 |
| Beauty/Hygiene Products | 4 | Gardening/Yard Care Products | 0 |
| Household Cleaning Products | 0 | Pet Groom Products | 0 |
| Sharps/Blades | 0 | Disposable Razors | 0 |
| Syringes | 19 | Alkaline Batteries | 22 |
| Hardware/Shop Products | 8 | Automobile Maintenance/Cleaning Products | 1 |
| Aerosol Cans | 0 | | |
| Miscellaneous items: 1 quart of latex paint, 1 18" florescent tube. | | | |

SPRINGFIELD SORT #1

| Sample # | Sample Size | | Composition | | Recycling Activities | Collection Location |
|----------------|---------------|--------------|-------------|-----------|-------------------------|-----------------------|
| | Weight | Volume | Res. | Comm. | | |
| 1 | 228.0 | 54.8 | 100% | 0% | Curbside and drop-off | Northwest Springfield |
| 2 | 263.0 | 52.6 | 100% | 0% | Curbside and drop-off | Southwest Springfield |
| 3 | 163.0 | 54.2 | 95% | 5% | Curbside and drop-off | East Springfield |
| 4 | 196.0 | 47.1 | 99% | 1% | Curbside and drop-off | Springfield |
| 5 | 145.0 | 36.1 | 75% | 25% | Curbside and drop-off | Springfield |
| 6 | 171.0 | 51.7 | 80% | 20% | Curbside and drop-off | Central Springfield |
| 7 | 145.0 | 41.0 | 100% | 0% | Curbside and drop-off | North Springfield |
| 8 | 153.0 | 37.0 | 75% | 25% | Curbside and drop-off | Southwest Springfield |
| 9 | 185.0 | 52.0 | 100% | 0% | Curbside and drop-off | North Springfield |
| 10 | 196.0 | 48.6 | 95% | 5% | Curbside and drop-off | Southeast Springfield |
| 11 | 230.0 | 56.4 | 100% | 0% | Curbside and drop-off | Springfield |
| 12 | 230.0 | 60.1 | 80% | 20% | Curbside and drop-off | Springfield |
| 13 | 178.0 | 44.7 | 100% | 0% | Curbside and drop-off | North Springfield |
| 14 | 171.0 | 65.4 | 100% | 0% | Curbside and drop-off | Southwest Springfield |
| TOTALS | 2654.0 | 701.7 | | | | |
| AVERAGE | 189.6 | 50.1 | 93% | 7% | | |

TABLE 3-1

| CATEGORY | SPRINGFIELD | | | | SORT #1 | |
|------------------------|---------------|--------------|--------------|-------------|----------------|----------------|
| | TOTALS | | AVERAGE | | PERCENTAGE | |
| | Wt. | Vol. | Wt. | Vol. | Pct. by wt. | Pct. by vol. |
| Cardboard | 234.9 | 117.7 | 16.8 | 8.4 | 8.85% | 16.78% |
| Newsprint | 235.0 | 35.2 | 16.8 | 2.5 | 8.86% | 5.02% |
| Magazines | 68.5 | 11.2 | 4.9 | 0.8 | 2.58% | 1.60% |
| High Grade | 25.9 | 8.1 | 1.9 | 0.6 | 0.98% | 1.15% |
| Mixed | 633.6 | 163.5 | 45.3 | 11.7 | 23.88% | 23.31% |
| PAPER TOTALS | 1197.9 | 335.7 | 85.6 | 24.0 | 45.14% | 47.86% |
| Clear | 111.5 | 14.5 | 8.0 | 1.0 | 4.20% | 2.07% |
| Brown | 14.7 | 2.1 | 1.1 | 0.2 | 0.55% | 0.30% |
| Green | 1.0 | 0.2 | 0.1 | 0.0 | 0.04% | 0.02% |
| Other | 4.1 | 0.3 | 0.3 | 0.0 | 0.15% | 0.04% |
| GLASS TOTALS | 131.3 | 17.1 | 9.4 | 1.2 | 4.95% | 2.43% |
| Alum. Cans | 24.8 | 9.5 | 1.8 | 0.7 | 0.93% | 1.35% |
| Other Alum | 13.3 | 4.1 | 0.9 | 0.3 | 0.50% | 0.59% |
| Non ferrous | 0.5 | 0.0 | 0.0 | 0.0 | 0.02% | 0.00% |
| Food Cans | 126.0 | 24.5 | 9.0 | 1.8 | 4.75% | 3.49% |
| Ferrous | 14.5 | 2.6 | 1.0 | 0.2 | 0.55% | 0.37% |
| Oil Filters | 1.0 | 0.1 | 0.1 | 0.0 | 0.04% | 0.01% |
| METAL TOTALS | 180.0 | 40.8 | 12.9 | 2.9 | 6.78% | 5.82% |
| PET # 1 | 55.9 | 39.8 | 4.0 | 2.8 | 2.11% | 5.67% |
| HDPE # 2 | 52.3 | 36.4 | 3.7 | 2.6 | 1.97% | 5.18% |
| Film | 138.2 | 66.5 | 9.9 | 4.7 | 5.21% | 9.47% |
| Other Plastic | 121.9 | 73.5 | 8.7 | 5.3 | 4.59% | 10.48% |
| PLASTIC TOTALS | 368.3 | 216.1 | 26.3 | 15.4 | 13.88% | 30.80% |
| Food Waste | 380.1 | 24.0 | 27.2 | 1.7 | 14.33% | 3.42% |
| Wood Waste | 31.6 | 4.0 | 2.3 | 0.3 | 1.19% | 0.56% |
| Textiles | 105.9 | 31.6 | 7.6 | 2.3 | 3.99% | 4.51% |
| Diapers | 100.6 | 13.5 | 7.2 | 1.0 | 3.79% | 1.92% |
| Other Organics | 27.2 | 6.8 | 1.9 | 0.5 | 1.03% | 0.97% |
| ORGANIC TOTALS | 645.4 | 79.9 | 46.1 | 5.7 | 24.32% | 11.39% |
| Fines | 105.0 | 9.4 | 7.5 | 0.7 | 3.96% | 1.33% |
| Other Inorganics | 25.6 | 2.6 | 1.8 | 0.2 | 0.96% | 0.36% |
| INORGANIC TOTAL | 130.6 | 11.9 | 9.3 | 0.9 | 4.92% | 1.70% |
| TOTAL SORT | 2653.4 | 701.4 | 189.5 | 50.1 | 100.00% | 100.00% |

TABLE 3-2

SORT # 2

Sort Conditions

The second sort was conducted May 12th through the 14th. The sort facility was set up approximately 300 yards from the tipping area. The sorting procedure used in the first round was also used for this sort. The first day of sorting activities was canceled after two samples due to heavy rain, and the second day of sorting was canceled after four samples when several sorters became ill due to excessive methane gas in the sorting area.

| Statistics | |
|---|---------|
| Estimated MSW (lbs) Collected by Site During Sampling Period | 188,000 |
| Total Sample Weight (lbs) | 1,824.5 |
| Significance Test Results | .000 |
| Number of Samples | 6 |

| OTHER WASTE CATEGORIES | | | |
|---|---|---|---|
| Over-the-counter Medication (OTC) | 3 | Beauty/Hygiene Aerosol Products | 6 |
| Prescription Medication (Rx) | 1 | Household Cleaning Aerosol Products | 2 |
| Beauty/Hygiene Products | 7 | Gardening/Yard Care Products | 6 |
| Household Cleaning Products | 8 | Pet Groom Products | 0 |
| Sharps/Blades | 2 | Disposable Razors | 4 |
| Syringes | 7 | Alkaline Batteries | 0 |
| Hardware/Shop Products | 4 | Automobile Maintenance/Cleaning Products | 2 |
| Aerosol Cans | 0 | | |
| Miscellaneous items: Vinyl sheet with insecticide in it. | | | |

**SPRINGFIELD
SORT #2**

| Sample # | Sample Size | | Composition | | Recycling Activities | Collection Location |
|----------------|---------------|--------------|-------------|-----------|-----------------------|---------------------|
| | Weight | Volume | Res. | Comm. | | |
| 1 | 309.0 | 52.2 | 98% | 2% | Curbside and Drop-off | City of Springfield |
| 2 | 299.0 | 45.0 | 100% | 0% | Curbside and Drop-off | City of Springfield |
| 3 | 305.0 | 59.9 | 100% | 0% | Curbside and Drop-off | City of Springfield |
| 4 | 243.5 | 48.9 | 100% | 0% | Curbside and Drop-off | City of Springfield |
| 5 | 288.0 | 47.5 | 100% | 0% | Curbside and Drop-off | City of Springfield |
| 6 | 380.0 | 56.5 | 100% | 0% | Curbside and Drop-off | City of Springfield |
| TOTALS | 1824.5 | 310.0 | | | | |
| AVERAGE | 304.1 | 51.7 | 99% | 1% | | |

| CATEGORY | SPRINGFIELD | | | | SORT # 2 | |
|------------------------|---------------|--------------|--------------|-------------|----------------|----------------|
| | TOTALS | | AVERAGE | | PERCENTAGE | |
| | Wt. | Vol. | Wt. | Vol. | Pct. by wt. | Pct. by vol. |
| Cardboard | 115.5 | 38.5 | 19.3 | 6.4 | 6.33% | 12.42% |
| Newsprint | 210.0 | 20.0 | 35.0 | 3.3 | 11.52% | 6.45% |
| Magazines | 44.5 | 4.6 | 7.4 | 0.8 | 2.44% | 1.48% |
| High Grade | 15.5 | 3.2 | 2.6 | 0.5 | 0.85% | 1.02% |
| Mixed | 259.5 | 42.8 | 43.3 | 7.1 | 14.23% | 13.79% |
| PAPER TOTALS | 645.0 | 109.0 | 107.5 | 18.2 | 35.37% | 35.17% |
| Clear | 46.5 | 3.8 | 7.8 | 0.6 | 2.55% | 1.23% |
| Brown | 45.5 | 6.0 | 7.6 | 1.0 | 2.50% | 1.92% |
| Green | 9.0 | 0.8 | 1.5 | 0.1 | 0.49% | 0.26% |
| Other | 15.5 | 0.9 | 2.6 | 0.2 | 0.85% | 0.29% |
| GLASS TOTALS | 116.5 | 11.5 | 19.4 | 1.9 | 6.39% | 3.69% |
| Alum. Cans | 21.3 | 9.8 | 3.6 | 1.6 | 1.17% | 3.15% |
| Other Alum | 14.0 | 3.5 | 2.3 | 0.6 | 0.77% | 1.13% |
| Non ferrous | 0.0 | 0.0 | 0.0 | 0.0 | 0.00% | 0.00% |
| Food Cans | 54.0 | 10.3 | 9.0 | 1.7 | 2.96% | 3.31% |
| Ferrous | 19.0 | 2.8 | 3.2 | 0.5 | 1.04% | 0.89% |
| Oil Filters | 5.0 | 0.3 | 0.8 | 0.1 | 0.27% | 0.10% |
| METAL TOTALS | 113.3 | 26.6 | 18.9 | 4.4 | 6.21% | 8.57% |
| PET # 1 | 34.0 | 17.8 | 5.7 | 3.0 | 1.86% | 5.73% |
| HDPE # 2 | 37.0 | 21.0 | 6.2 | 3.5 | 2.03% | 6.78% |
| Film | 63.0 | 21.0 | 10.5 | 3.5 | 3.45% | 6.78% |
| Other Plastic | 107.0 | 38.2 | 17.8 | 6.4 | 5.87% | 12.33% |
| PLASTIC TOTALS | 241.0 | 98.0 | 40.2 | 16.3 | 13.22% | 31.61% |
| Food Waste | 336.0 | 23.0 | 56.0 | 3.8 | 18.43% | 7.42% |
| Wood Waste | 21.0 | 2.4 | 3.5 | 0.4 | 1.15% | 0.77% |
| Textiles | 68.5 | 10.5 | 11.4 | 1.8 | 3.76% | 3.39% |
| Diapers | 100.5 | 11.0 | 16.8 | 1.8 | 5.51% | 3.55% |
| Other Organics | 53.5 | 7.1 | 8.9 | 1.2 | 2.93% | 2.27% |
| ORGANIC TOTALS | 579.5 | 54.0 | 96.6 | 9.0 | 31.78% | 17.41% |
| Fines | 97.2 | 9.0 | 16.2 | 1.5 | 5.33% | 2.90% |
| Other Inorganics | 31.0 | 2.0 | 5.2 | 0.3 | 1.70% | 0.65% |
| INORGANIC TOTAL | 128.2 | 11.0 | 21.4 | 1.8 | 7.03% | 3.55% |
| TOTAL SORT | 1823.5 | 309.9 | 303.9 | 51.7 | 100.00% | 100.00% |

TABLE 3-4

SORT # 3

Sort Conditions

The third sort was conducted September 9th through the 11th. The sort facility was set up approximately 300 yards from the tipping area. The weather conditions were sunny and mild for all scheduled sorting days.

| Statistics | |
|---|---------|
| Estimated MSW (lbs) Collected by Site During Sampling Period | 188,000 |
| Total Sample Weight (lbs) | 2,599.2 |
| Significance Test Results | .000 |
| Number of Samples | 12 |

| OTHER WASTE CATEGORIES | | | |
|---|---|---|---|
| Over-the-counter Medication (OTC) | 4 | Beauty/Hygiene Aerosol Products | 3 |
| Prescription Medication (Rx) | 4 | Household Cleaning Aerosol Products | 2 |
| Beauty/Hygiene Products | 5 | Gardening/Yard Care Products | 1 |
| Household Cleaning Products | 3 | Pet Groom Products | 1 |
| Sharps/Blades | 0 | Disposable Razors | 5 |
| Syringes | 5 | Alkaline Batteries | 8 |
| Hardware/Shop Products | 3 | Automobile Maintenance/Cleaning Products | 0 |
| Aerosol Cans | 1 | | |
| Miscellaneous items: Full bingo marker, 1 thermometer. | | | |

SPRINGFIELD
SORT # 3

| Sample # | Sample Size | | Composition | | Recycling Activities | Collection Location |
|----------------|---------------|--------------|-------------|------------|-------------------------|-------------------------------|
| | Weight | Volume | Res. | Comm. | | |
| 1 | 190.0 | 43.8 | 0% | 100% | Curbside/Drop-off | Springfield/ west end |
| 2 | 149.0 | 37.3 | 99% | 1% | Curbside/Drop-off | Springfield/ north |
| 3 | 255.0 | 64.1 | 85% | 15% | Curbside/Drop-off | Springfield/ south |
| 4 | 262.0 | 57.4 | 100% | 0% | Curbside/Drop-off | Springfield/ north and west |
| 5 | 252.7 | 56.1 | 100% | 0% | Curbside/Drop-off | Springfield/ north |
| 6 | 207.0 | 39.3 | 10% | 90% | Curbside/Drop-off | Springfield/ central |
| 7 | 257.0 | 45.2 | 100% | 0% | Curbside/Drop-off | Springfield |
| 8 | 185.0 | 50.3 | 70% | 30% | Curbside/Drop-off | Springfield/ central and west |
| 9 | 191.0 | 26.8 | 50% | 50% | Curbside/Drop-off | Springfield/ north |
| 10 | 234.0 | 37.1 | 100% | 0% | Curbside/Drop-off | Springfield/ central |
| 11 | 234.0 | 45.6 | 100% | 0% | Curbside/Drop-off | Springfield/ north |
| 12 | 182.5 | 32.4 | 100% | 0% | Curbside/Drop-off | Springfield/ west |
| TOTALS | 2599.2 | 535.4 | | | | |
| AVERAGE | 216.6 | 44.6 | 76% | 24% | | |

TABLE 3-5

| CATEGORY | SPRINGFIELD | | | | SORT # 3 | |
|-------------------------|---------------|--------------|--------------|-------------|----------------|----------------|
| | TOTALS | | AVERAGE | | PERCENTAGE | |
| | Wt. | Vol. | Wt. | Vol. | Pct. by wt. | Pct. by vol. |
| Cardboard | 173.0 | 67.5 | 14.4 | 5.6 | 6.66% | 12.61% |
| Newsprint | 229.0 | 31.3 | 19.1 | 2.6 | 8.82% | 5.85% |
| Magazines | 71.0 | 8.9 | 5.9 | 0.7 | 2.73% | 1.66% |
| High Grade | 86.5 | 12.5 | 7.2 | 1.0 | 3.33% | 2.33% |
| Mixed | 400.0 | 96.1 | 33.3 | 8.0 | 15.41% | 17.95% |
| PAPER TOTALS | 959.5 | 216.3 | 80.0 | 18.0 | 36.96% | 40.40% |
| Clear | 61.5 | 5.5 | 5.1 | 0.5 | 2.37% | 1.03% |
| Brown | 37.5 | 2.9 | 3.1 | 0.2 | 1.44% | 0.54% |
| Green | 15.0 | 1.6 | 1.3 | 0.1 | 0.58% | 0.30% |
| Other | 9.0 | 0.8 | 0.8 | 0.1 | 0.35% | 0.15% |
| GLASS TOTALS | 123.0 | 10.8 | 10.3 | 0.9 | 4.74% | 2.02% |
| Alum. Cans | 49.5 | 16.4 | 4.1 | 1.4 | 1.91% | 3.06% |
| Other Alum | 22.5 | 2.7 | 1.9 | 0.2 | 0.87% | 0.50% |
| Non ferrous | 4.0 | 0.9 | 0.3 | 0.1 | 0.15% | 0.17% |
| Food Cans | 102.5 | 17.8 | 8.5 | 1.5 | 3.95% | 3.32% |
| Ferrous | 42.0 | 4.1 | 3.5 | 0.3 | 1.62% | 0.77% |
| Oil Filters | 0.0 | 0.0 | 0.0 | 0.0 | 0.00% | 0.00% |
| METAL TOTALS | 220.5 | 41.9 | 18.4 | 3.5 | 8.49% | 7.83% |
| PET # 1 | 68.0 | 28.2 | 5.7 | 2.4 | 2.62% | 5.27% |
| HDPE # 2 | 71.5 | 31.0 | 6.0 | 2.6 | 2.75% | 5.79% |
| Film | 86.7 | 42.0 | 7.2 | 3.5 | 3.34% | 7.84% |
| Other Plastic | 188.0 | 49.3 | 15.7 | 4.1 | 7.24% | 9.21% |
| PLASTIC TOTALS | 414.2 | 150.5 | 34.5 | 12.5 | 15.95% | 28.11% |
| Food Waste | 474.5 | 48.6 | 39.5 | 4.1 | 18.28% | 9.08% |
| Wood Waste | 21.0 | 2.4 | 1.8 | 0.2 | 0.81% | 0.45% |
| Textiles | 84.0 | 11.8 | 7.0 | 1.0 | 3.24% | 2.20% |
| Diapers | 66.5 | 7.2 | 5.5 | 0.6 | 2.56% | 1.34% |
| Other Organics | 134.0 | 34.3 | 11.2 | 2.9 | 5.16% | 6.41% |
| ORGANIC TOTALS | 780.0 | 104.3 | 65.0 | 8.7 | 30.04% | 19.48% |
| Fines | 67.0 | 8.4 | 5.6 | 0.7 | 2.58% | 1.57% |
| Other Inorganics | 32.0 | 3.2 | 2.7 | 0.3 | 1.23% | 0.60% |
| INORGANIC TOTALS | 99.0 | 11.6 | 8.3 | 1.0 | 3.81% | 2.17% |
| TOTAL SORT | 2596.2 | 535.4 | 216.4 | 44.6 | 100.00% | 100.00% |

TABLE 3-6

SORT SUMMARY

Seasonal variations

- Paper totals, especially mixed paper, were considerably higher during the first sort. This trend is not consistent with other sites. Cause unknown.
- Aluminum cans doubled from the first to the third sort. Probably a result of warmer weather.
- Organic totals increased as the growing season progressed (yard waste is banned from Missouri landfills but several bags were found during the second and third sorts).
- Food waste increased in the second and third sorts. This was primarily due to watermelon rinds and corn shucks.

Sort results

- Chart 3-1 graphically compares the three seasonal sort results and shows the average waste composition, by major category, for Springfield.
- The sample data for all Springfield waste sorts are listed on table 3-7.
- The sort results for all Springfield sorts are listed on table 3-8.
- The summary of statistical relevance for the Springfield sorts is located on page 36.
- The total for all “other wastes” found during the Springfield waste sorts is on page 36.

All weights are in pounds and volumes are listed in cubic feet.

Comparisons of the Springfield waste stream to previous studies and other communities can be found in Chapter 13.

SPRINGFIELD RESULTS BY WEIGHT

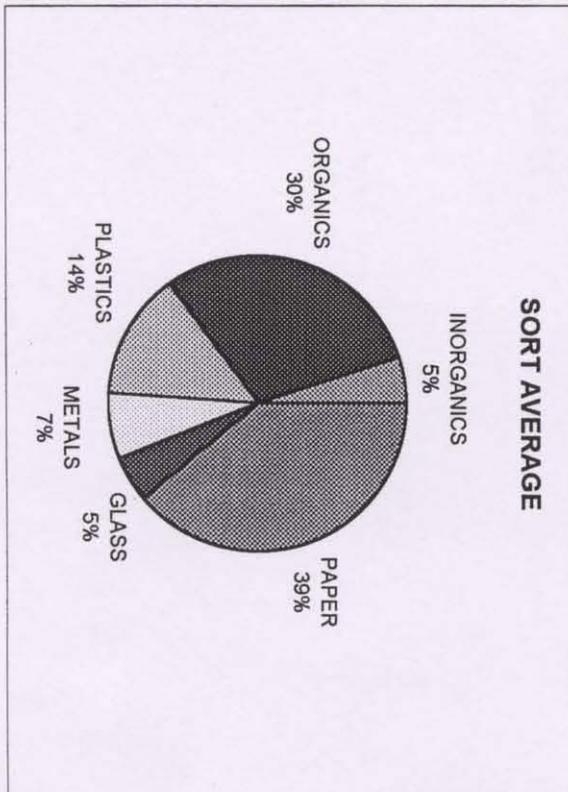
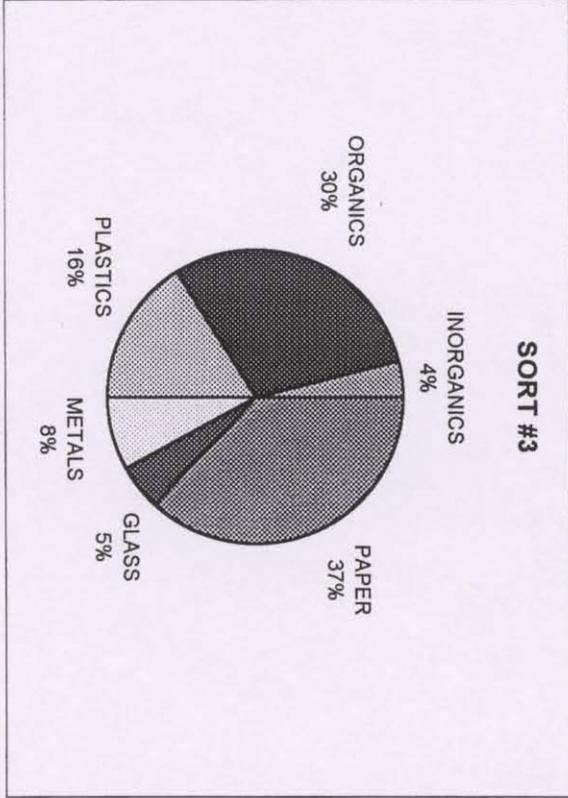
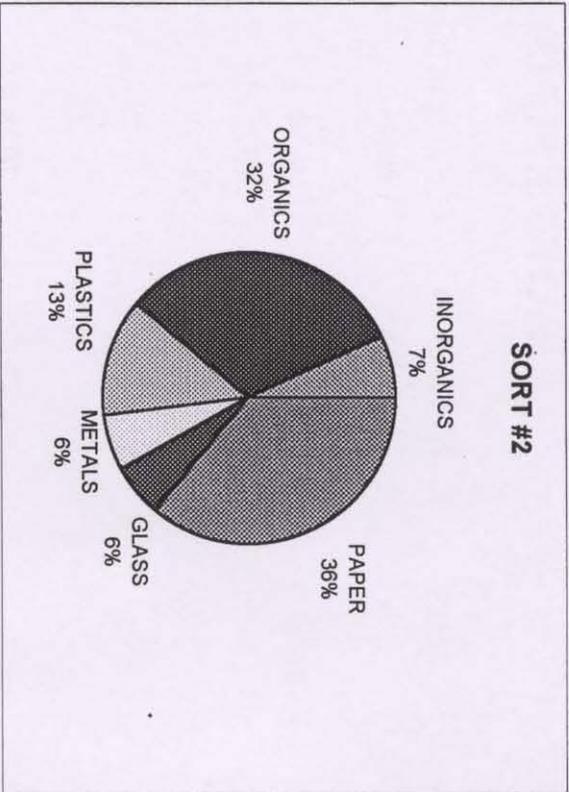
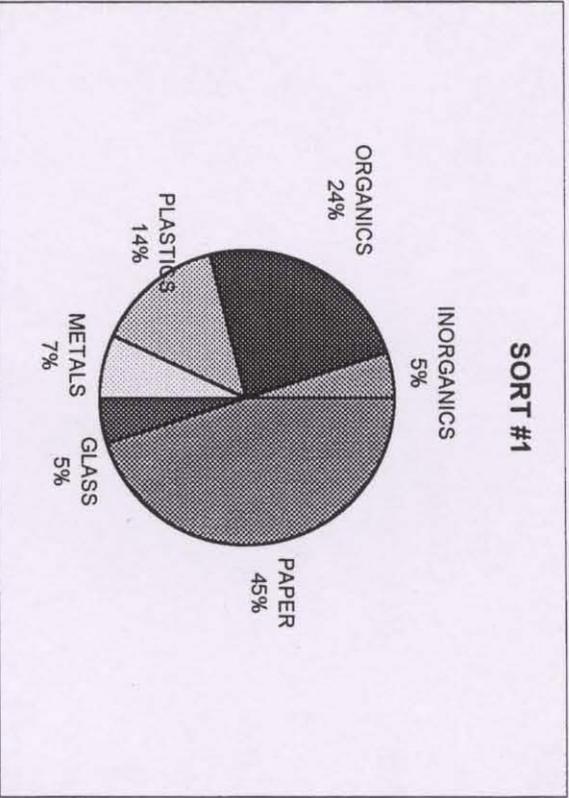


CHART 3-1

**SPRINGFIELD
SAMPLE SUMMARY**

| Sort # | Dates | Number of Samples | Sample Size | | Composition | |
|----------------|-----------|----------------------|---------------|---------------|-------------|------------|
| | | | Weight | Volume | Residential | Commercial |
| 1 | 2/7-2/9 | 14 | 2654.0 | 701.7 | 93% | 7% |
| 2 | 5/13-5/15 | 6 | 1825.0 | 310.0 | 100% | 0% |
| 3 | 9/3-9/5 | 12 | 2599.2 | 535.4 | 76% | 24% |
| TOTALS | | 32.0 | 7078.2 | 1547.1 | | |
| AVERAGE | | 10.7 | 2359.4 | 515.7 | 90% | 10% |

TABLE 3-7

SPRINGFIELD

SUMMARY

| CATEGORY | SORT # 1 | | SORT # 2 | | SORT #3 | | AVERAGE | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | WT. | VOL. | WT. | VOL. | WT. | VOL. | WT. | VOL. |
| Cardboard | 8.8% | 16.8% | 6.3% | 12.4% | 6.7% | 12.6% | 7.4% | 14.6% |
| Newsprint | 8.8% | 5.0% | 11.5% | 6.5% | 8.8% | 5.9% | 9.5% | 5.6% |
| Magazines | 2.6% | 1.6% | 2.4% | 1.5% | 2.7% | 1.7% | 2.6% | 1.6% |
| High Grade | 1.0% | 1.2% | 0.9% | 1.0% | 3.3% | 2.3% | 1.8% | 1.6% |
| Mixed | 23.9% | 23.3% | 14.3% | 13.8% | 15.4% | 18.0% | 18.3% | 19.7% |
| PAPER TOTALS | 45.1% | 47.9% | 35.4% | 35.2% | 37.0% | 40.4% | 39.6% | 43.0% |
| Clear | 4.2% | 2.0% | 2.6% | 1.2% | 2.4% | 1.0% | 3.1% | 1.5% |
| Brown | 0.6% | 0.3% | 2.5% | 1.9% | 1.4% | 0.5% | 1.4% | 0.7% |
| Green | 0.1% | 0.1% | 0.5% | 0.3% | 0.6% | 0.3% | 0.4% | 0.2% |
| Other | 0.1% | 0.1% | 0.8% | 0.3% | 0.4% | 0.2% | 0.4% | 0.1% |
| GLASS TOTALS | 5.0% | 2.4% | 6.4% | 3.7% | 4.7% | 2.0% | 5.3% | 2.6% |
| Alum. Cans | 0.9% | 1.3% | 1.2% | 3.2% | 1.9% | 3.1% | 1.4% | 2.3% |
| Other Alum | 0.5% | 0.6% | 0.7% | 1.1% | 0.9% | 0.5% | 0.7% | 0.7% |
| Non ferrous | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 0.2% | 0.1% | 0.1% |
| Food Cans | 4.8% | 3.5% | 3.0% | 3.3% | 4.0% | 332.0% | 4.0% | 3.4% |
| Ferrous | 0.6% | 0.4% | 1.0% | 0.9% | 1.6% | 0.8% | 1.1% | 0.6% |
| Oil Filters | 0.0% | 0.0% | 0.3% | 0.1% | 0.0% | 0.0% | 0.1% | 0.0% |
| METAL TOTALS | 6.8% | 5.8% | 6.2% | 8.6% | 8.5% | 7.8% | 7.3% | 7.1% |
| PET # 1 | 2.1% | 5.6% | 1.9% | 5.7% | 2.6% | 5.3% | 2.2% | 5.6% |
| HDPE # 2 | 2.0% | 5.2% | 2.0% | 6.8% | 2.8% | 5.8% | 2.3% | 5.7% |
| Film | 5.2% | 9.5% | 3.4% | 6.8% | 3.3% | 7.8% | 4.1% | 8.4% |
| Other Plastic | 4.6% | 10.5% | 5.9% | 12.3% | 7.2% | 9.2% | 5.9% | 10.4% |
| PLASTIC TOTALS | 13.9% | 30.8% | 13.2% | 31.6% | 16.0% | 28.1% | 14.5% | 30.2% |
| Food Waste | 14.3% | 3.4% | 18.4% | 7.4% | 18.3% | 9.1% | 16.8% | 6.2% |
| Wood Waste | 1.2% | 0.6% | 1.2% | 0.7% | 0.8% | 0.5% | 1.0% | 0.6% |
| Textiles | 4.0% | 4.5% | 3.8% | 3.4% | 3.2% | 2.2% | 3.7% | 2.9% |
| Diapers | 3.8% | 1.9% | 5.5% | 3.5% | 2.6% | 1.3% | 3.8% | 2.1% |
| Other Organics | 1.0% | 1.0% | 2.9% | 2.3% | 5.2% | 6.4% | 3.0% | 3.1% |
| ORGANIC TOTALS | 24.3% | 11.4% | 31.8% | 17.3% | 30.0% | 19.5% | 28.3% | 14.9% |
| Fines | 4.0% | 1.3% | 5.3% | 2.9% | 2.6% | 1.6% | 3.8% | 1.7% |
| Other Inorganics | 0.9% | 0.4% | 1.7% | 0.7% | 1.2% | 0.6% | 1.3% | 0.5% |
| INORGANIC TOTALS | 4.9% | 1.7% | 7.0% | 3.6% | 3.8% | 2.2% | 5.1% | 2.2% |
| SORT TOTALS | 100% |

TABLE 3-8

| Springfield Statistical Summary | |
|---|--------------------|
| Estimated MSW (lbs) Collected by Site During Sampling Period | 188,000 |
| Total Sample Weight (lbs) | 7,077.7 |
| Total Number of Samples Collected | 32 |
| Significance Test Results | .000 |
| Mean Sample (lbs) and Confidence Interval (95%) | 221.15 (+/-) 20.24 |

| Springfield "Other Waste" Summary | | | |
|--|----|---|----|
| Over-the-Counter Medication (OTC) | 7 | Beauty/Hygiene Aerosol Products | 9 |
| Prescription Medication (Rx) | 6 | Household Cleaning Aerosol Products | 4 |
| Beauty/Hygiene Products | 16 | Gardening/Yard Care Products | 7 |
| Household Cleaning Products | 11 | Pet Groom Products | 1 |
| Sharps/Blades | 2 | Disposable Razors | 5 |
| Syringes | 31 | Alkaline Batteries | 30 |
| Hardware/Shop Products | 15 | Automobile Maintenance/Cleaning Products | 3 |
| Aerosol Cans | 1 | | |
| Miscellaneous items: 1 quart of latex paint, 1 18" florescent tube, vinyl sheet with insecticide in it, full bingo marker, 1 thermometer. | | | |