

# KOOTENAI COUNTY SOLID WASTE DEPARTMENT



## 2015 SOLID WASTE ANALYSIS

KOOTENAI COUNTY SOLID WASTE DEPARTMENT  
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# KOOTENAI COUNTY

## SOLID WASTE

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April 21, 2016

I am pleased to present the 2015 Solid Waste Report for Kootenai County. The annual report is an important historical record and planning tool. Utilizing historical data, the Solid Waste Department can address current obligations while looking to the demands of the future.

Detailed reports and information can be viewed at the Idaho DEQ office in Coeur d'Alene or the Administration Office of the Kootenai County Solid Waste Department.

In 2015, the solid waste facilities experienced a jump in overall waste generation and customer counts attributed to the growing local economy.

The transfer facilities and staffed rural sites served 635,669 customers – an increase of 35,344 customers in one year with an overall 24.66% or 90,349 more customers in five years. The landfill realized a 5.8% tonnage increase and managed a total of 140,722 tons in one year with substantial volume increases during the last three years.

The County-owned and operated landfill is the cornerstone of the solid waste system and as waste volumes grow, it is critical to carefully plan and implement innovative cost-saving procedures. Although changes are on-going, the key innovative project in 2014-2015 included the construction and successful operation of a leachate (water that passes through the waste) evaporation system.

The Solid Waste Department offers a multitude of services and strives to obtain best management practices in compliance with ever changing regulatory requirements. We are committed to provide citizens with affordable and efficient waste disposal.

The Department realized a fund balance reduction due to the reclassification of \$5.9 million in interest earnings from the Solid Waste Fund to the County General Fund. Upon recommendation of the County Treasurer, the Board of County Commissioners determined that interest earnings should have been retained in the General Fund.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Cathy Mayer  
Solid Waste Director

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## Summary

### 2015 Waste Stream Analysis

This section contains an overview of the Solid Waste System and some of the planning tools used to help meet the needs of Kootenai County residents.

The Solid Waste Department is committed to provide our citizens with affordable and efficient waste disposal. The Solid Waste Department is an affordable asset to Kootenai County providing financial stability to the County in that we generate revenue and are fiscally responsible.

The Solid Waste Department consists of the following:

- Fighting Creek Farm Landfill (open 6 days a week)
- Ramsey Transfer Station (open 7 days a week) and closed landfill
- Granite Landfill (Closed)
- Prairie Transfer Station (open 7 days a week)
- 13 Rural Residential Collection Sites

Flexibility is the key to success. It takes many talents and skills to keep the Department running smoothly and successfully. There are a total of 59 full-time employees, with additional seasonal staff for the summer months.

The County owned and operated landfill is the key to this goal and the department is always researching alternative methods of disposal and management of leachate. In addition, material reuse or recycling is encouraged to reduce the amount landfilled.

### **BUDGET**

The Solid Waste Department carefully plans all activities to provide for the maximum benefit of available funding which is critical in today's economy. As an enterprise fund, the solid waste program is operated more like a business than the typical tax based government entity. Solid waste dollars are acquired through fees and kept in a Solid Waste Fund. Since dollars are through fees, the Department does not compete for tax dollars. For detailed information about the financial records of the Department, you may view the Comprehensive Annual Report prepared by the Auditor's office on the Kootenai County website: <http://www.kcgov.us/departments/auditor/financials/downloads.asp>

The Department maintains strategic long-term financial plans and works to finance the required operation and expansion of services within the solid waste system in Kootenai County.

As an enterprise fund, other County departments are paid for the services they provide. In 2015, the Solid Waste Department paid \$ 670,128 to Kootenai County for services provided by other departments.

Operational expenditures are broken down into the following categories. ***Please note that construction and capital projects are not included in this chart.*** All salaries necessary to support these activities are contained within these budget categories.

| <b>Activity</b>          | <b>Budget</b> |
|--------------------------|---------------|
| Administration           | \$ 333,809    |
| Ramsey Transfer Station  | \$ 2,610,772  |
| Prairie Transfer Station | \$ 1,821,275  |
| Rural Systems            | \$ 890,215    |
| Landfill                 | \$ 2,790,593  |
| Interfund Services*      | \$ 6,601,691  |
| Closure/Post Closure     | \$ 145,000    |
| Total Budget             | \$ 15,193,354 |

*\*Interfund Services includes reclassification of \$5.9 M in interest revenue from the past 10 years.*

The Department realized a fund balance reduction due to the reclassification of 5,931,563 in interest earnings from the Solid Waste Fund to the County General Fund. The County Treasurer recommended the retroactive recognition of interest earned from October 1, 2003 through September 31, 2014 and the reclassification to the General Fund. The Board of County Commissioners agreed with the recommendation and it was determined that these past interest earnings as well as any future interest earnings be retained in the General Fund and not the Solid Waste Fund.

The Department has also realized a decline in revenue from all recycling commodities and anticipates that the cost of recycling will continue to increase due to decline in markets and charging by recycling receiving facilities. More details are provided in the Recycling section of this report.



## **Kootenai County Mission Statement**

It is the mission of Kootenai County Government to provide professional service with regard to public safety, essential service, preservation of natural resources and the responsible management of public assets for the common well-being of our citizens.

## **Vision Statement**

An innovative, cost effective government the community can be proud of, committed to a high quality of life and excellence in public service.

## **Values and Operating Principles**

- **Customer Focus**
  - Responsive, Prompt, Compassionate, Quality Service
- **Accountability**
  - Responsible, Cost Effective Use of Public Resources
- **Teamwork**
  - Creative Cooperation
- **Communication**
  - Open and Honest Sharing of Information and Ideas
- **Professionalism**
  - Innovative, Qualified, Honesty, Integrity, Personal Excellence

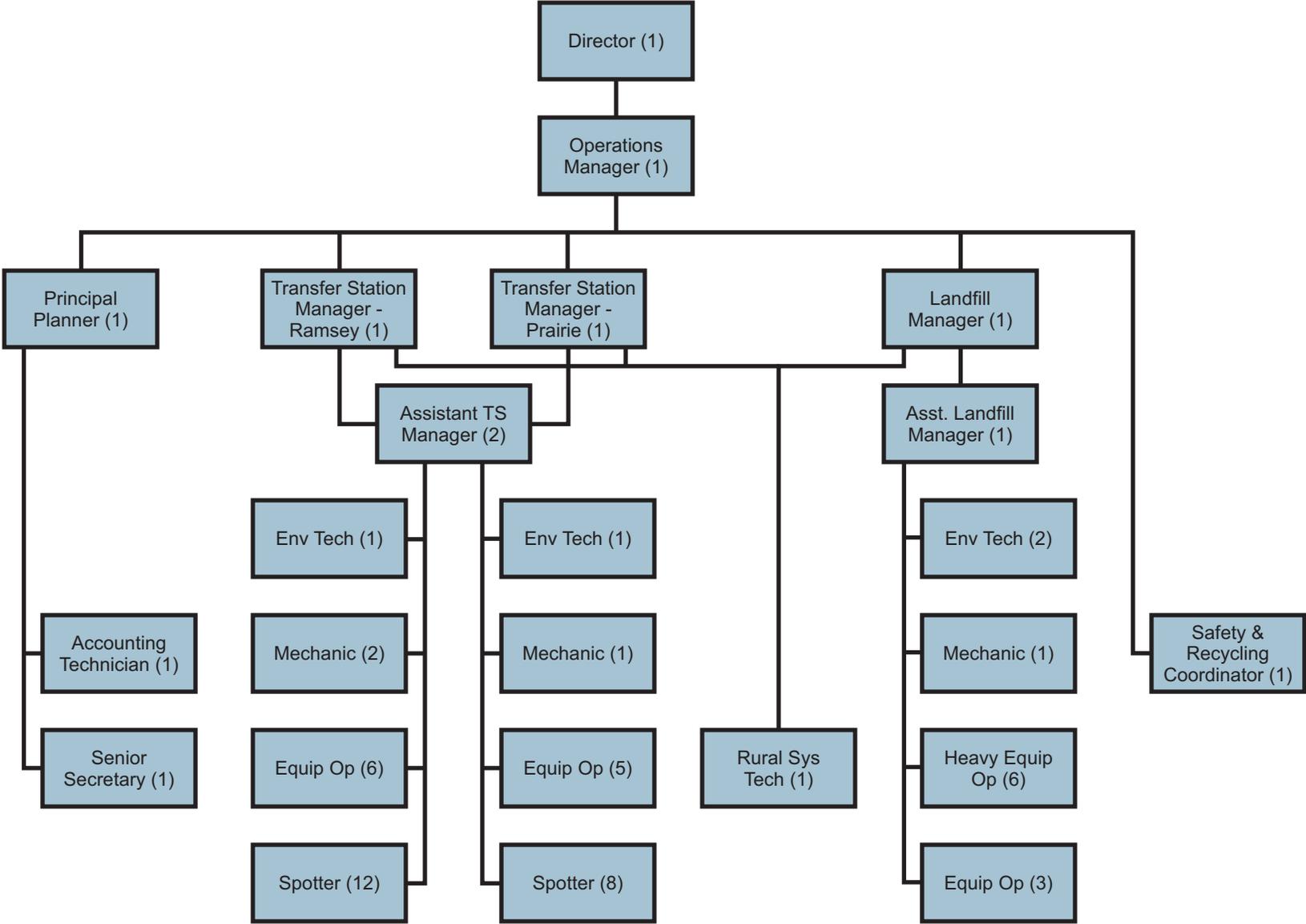


## **Kootenai County Solid Waste Department Mission Statement**

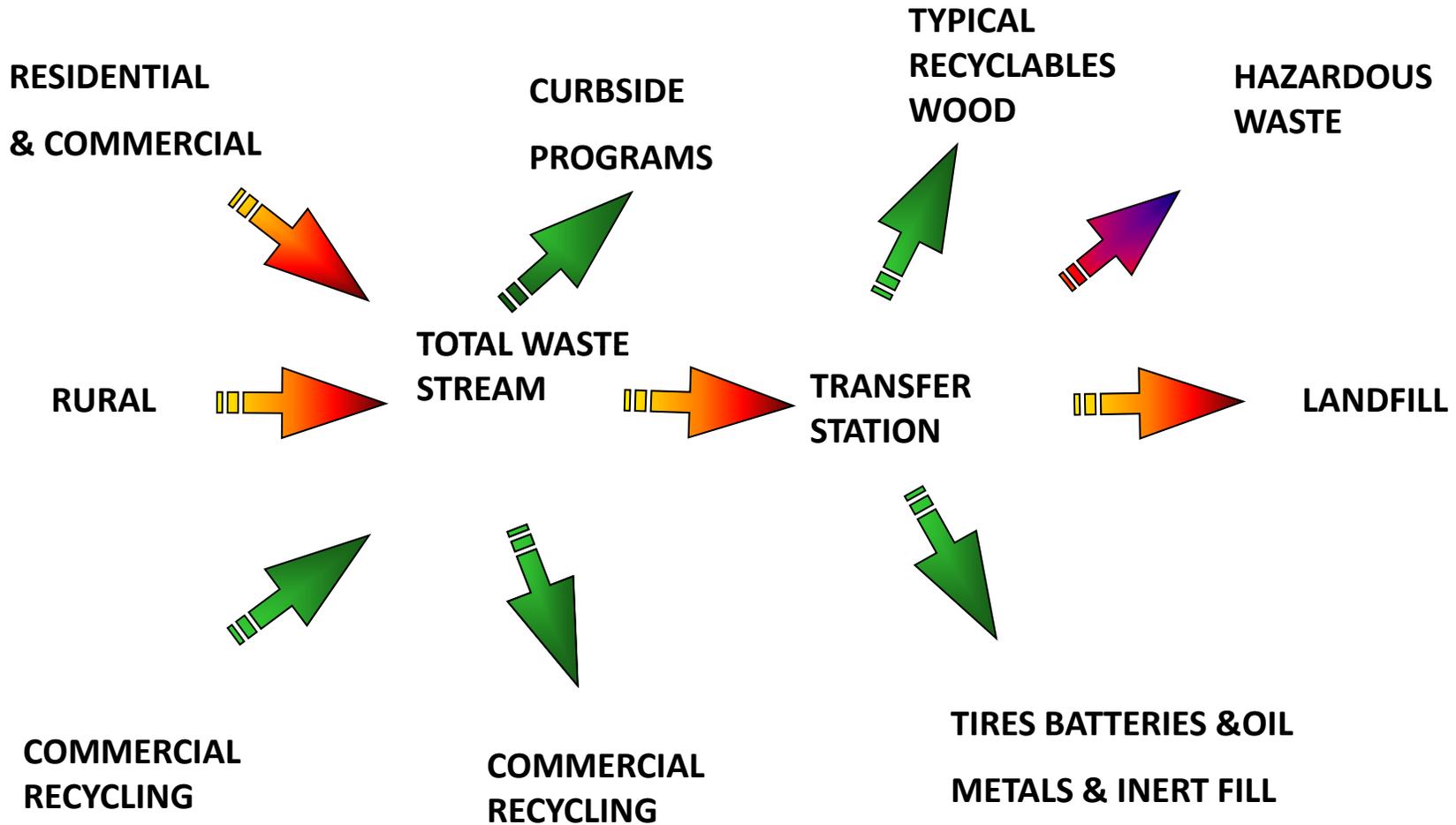
It is the mission of the Kootenai County Solid Waste Department to:

- Protect the public health and well being for all citizens affected directly and indirectly, now and in the future.
- Provide environmentally sound facilities and operations before, during and after dispose of solid waste
- Provide effective and efficient means of solid waste disposal to the citizens of Kootenai County
- Insure the equity of solid waste disposal costs among all citizens

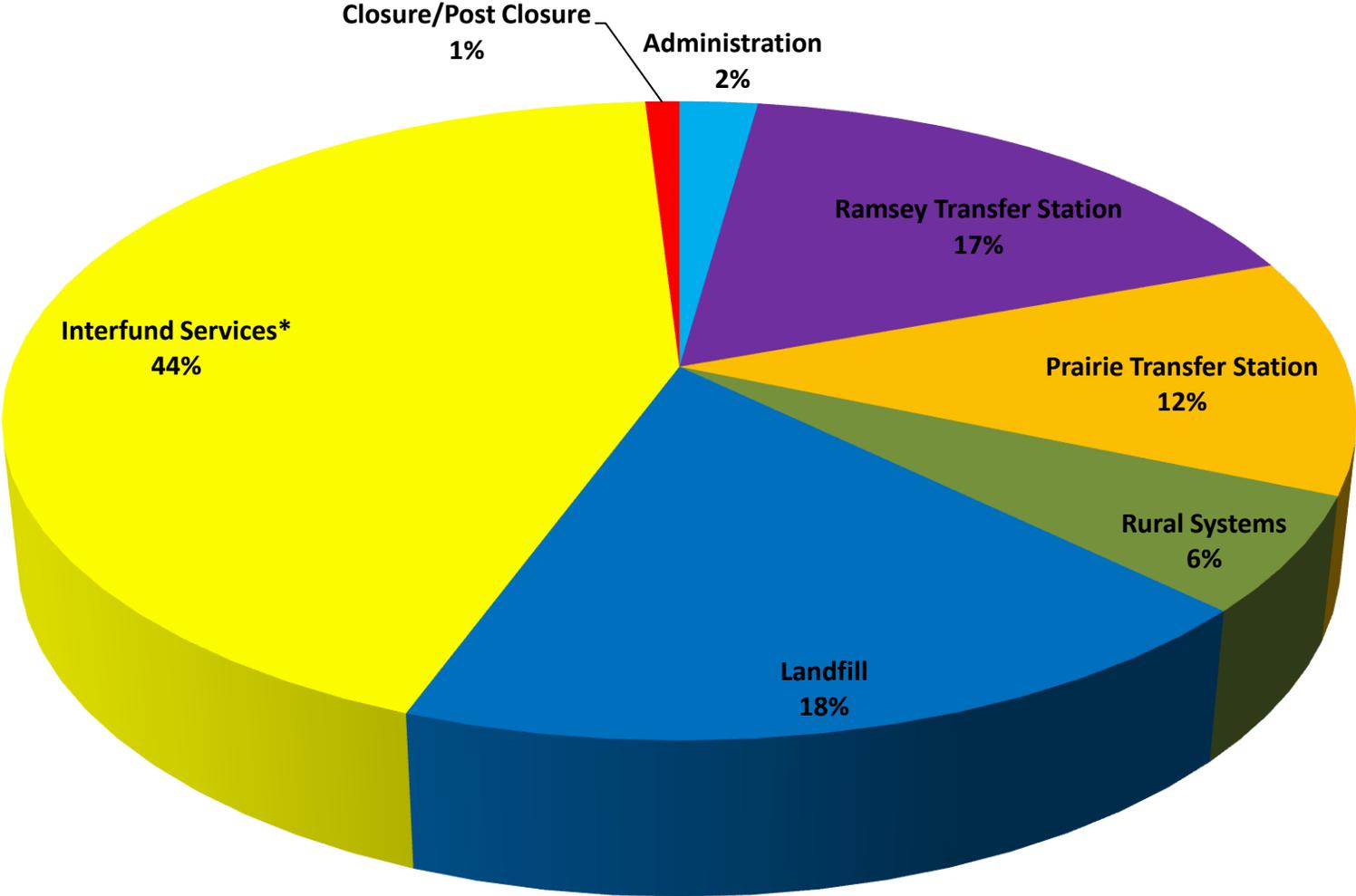
# Solid Waste Department



# KOOTENAI COUNTY SOLID WASTE SYSTEM



# Operational Expenditures



**Total Operational Expenditures**  
**\$15,193,354**

\* Interfund Services includes reclassification of \$5.9 M in interest revenue from the past 10 years.

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## LANDFILL 2015

Kootenai County owns and operates a fully permitted municipal solid waste landfill. The Kootenai County Farm Landfill at Fighting Creek, also referred to as the Fighting Creek Landfill, is located approximately 16 miles south of the city limits of Coeur d' Alene. Over 450 acres are owned by the County with a portion dedicated for landfill. The life cycle of the current permitted area is estimated through 2041-2042.



The landfill was designed under 40 CFR 258, Federal Subtitle 'D' regulations and complies with the Idaho Solid Waste Facilities Act, 39-7400. To meet the above requirements, the landfill has a fully developed liner, leachate collection system and gas extraction system.

The landfill is the cornerstone of the solid waste system in Kootenai County. The landfill operates 6-days a week, Monday through Saturday. The general public must use the Transfer Stations or the rural residential collection locations as waste from individual public loads are not accepted at the landfill. The removal of materials from the waste stream prior to landfill is imperative to save landfill space. The Fighting Creek Landfill received a total of 140,722 tons of material during the calendar year of 2015. This was an increase of 5.8% or 7,444 tons over 2014.

The *Kootenai County Farm Landfill 2015 Life Cycle Update*, prepared by the engineering firm of CH2M Hill, states that the effective waste density for Cell E1 is 1,200 pounds per cubic yard (lb/cy) average. The density estimate is down from 1,384 lb/cy from start of filling in 1993 to August of 2013 when filling of the new East Cell commenced. Filling in the E1 of the East Cell included a "fluff" layer to prevent damage to the bottom liner. This waste is less dense than the original landfill that was over 150' deep with 20 years of fill. As the new areas fill, density will increase as waste is consolidated and compacted and depth of waste increases.

In August 2013 the original footprint of the landfill reached interim closure elevation and all operations were shifted to Phase 1 of the East Cell. As of December 31, 2015, placement of over 318,000 tons of waste has gone in this section of the landfill.

The Life Cycle Update is a planning tool to help understand how well we are doing in managing and disposing of waste within the landfill. Based on these tools, we have determined that our overall growth rate for planning is 3%. The Life Cycle Update of 2015 estimates that the original footprint and the East Cell of the Landfill will reach final closure capacity in 2041-2042.

Daily operations include compaction and cover with an alternative daily cover material and clay. An extensive storm water diversion program is in place to minimize the amount of precipitation entering the waste and requiring treatment as leachate.

## LEACHATE

Leachate is the liquid that results from the compaction of, and/or the filtering of natural occurring precipitation through garbage. Under current rules, we must treat and dispose of all leachate that is produced at the Fighting Creek Landfill. Leachate is not hazardous but does contain soluble, suspended material that is from the waste.

Leachate has been managed by a variety of methods with disposal by one of three alternatives: recirculation, evaporation or off-site delivery to a waste water treatment facility. Hauling waste to an off-site wastewater facility in Spokane is not an alternative and water disposal MUST be managed onsite.

Landfill staff remain focused on solutions to leachate management. A misting basin, designed and constructed by County personnel, was constructed. The basin is comprised of a 302' x 538' area lined with 30 mil reinforced polyethylene; pipe system with over 892 spray heads; three 50 HP pumps to transfer leachate from the holding ponds to the basin; water system return to the leachate pond; and electrical upgrades.

The misting system began operation in July 2014. It is closely monitored and not operated on windy days or during high humidity and/or rainy times. From July-September 2014, over 5 million gallons of leachate was disposed and from April-August 2015, over 5.7 million gallons was disposed using this system.



Permits require wastewater holding and treatment to process the leachate from the Fighting Creek Landfill. Currently four leachate collection ponds are operational with over 7 million gallons of capacity.



Leachate from the landfill is conveyed to the leachate ponds through a system of gravity feed pipes located in the bottom of the landfill. A lift station moves leachate from the new east landfill cell to the leachate pond system.

The ponds are aerated through mechanical injection of air into the ponds which keeps dissolved oxygen levels high to control odors and promote natural evaporation.

Evaporation consists of naturally occurring or by mechanically induced means. In the mechanically induced process, leachate is pumped to the evaporator, where it is superheated. As the leachate heats, it gives off water vapor that is then injected into a gas flare where it is destroyed. This process requires the use of methane gas to power the leachate evaporator. In 2014, 1,857,290 gallons were disposed of using this technique. This system was taken offline in September, 2014 in order to turn over all methane gas production to the landfill gas to energy facility. The evaporator was operated briefly in 2015 with 136,260 gallons processed.

## **GAS SYSTEM**

The Fighting Creek Landfill has a fully operational gas extraction system, which currently includes over 250 landfill gas wells. This extensive gas well and trench system collects gas and conveys it to a collection point that feeds two operational ground flares, a leachate evaporator and a landfill gas to energy facility. This system is monitored and adjusted weekly to ensure compliance.

The first blower/flare was installed in 1994 and the gas system activated in 1995. A second enclosed flare was installed in 2000.

In March 2012, the Landfill Gas to Energy Project between the Solid Waste Department and Kootenai Electric Cooperative became operational. Kootenai Electric Cooperative built the facility at a cost of approximately



\$7 million. At full production, the facility will produce 3.2 MW of power sufficient to service approximately 2,000 homes. Over 1 million KWh of electricity was generated in November and December 2014 following taking the evaporator offline. In 2015, landfill gas declined due to a reduction of “old” gas from the original landfill and the low production of gas from the “new” portion of the East Cell. As the new waste ages, gas production will increase. It is anticipated that the department will receive over \$60,000 in revenue from the sale of methane gas in 2016.

In addition to the Fighting Creek Farm Landfill, the department is responsible for two closed landfills. The Ramsey Road Landfill is located adjacent to the Ramsey Transfer Station in Coeur d’ Alene. The landfill portion of this facility was closed in 1993 upon the opening of the Fighting Creek Landfill. The Ramsey Landfill has a gas extraction system and an impermeable cover as part of the closure action. The gas production from the Ramsey Landfill as well as the old Coeur d’ Alene Landfill is processed through the Ramsey Gas System. In 2007, it became necessary to downsize the candle flare at the Ramsey facility because the generation of gas decreased to the point the larger flare could no longer operate efficiently. The gas system under a complex of several baseball fields is now extinct as gas production has ceased.

An older landfill is located on the northern border of Kootenai County (Granite Landfill) that was shared between Kootenai County and Bonner County. This facility ceased taking waste in the 80’s. For many years, this location was far from any dwelling. The sale of adjacent property and the establishment of a rural

residential development required us to fence this facility. A passive gas probe system was installed in 2008 to verify the absence of meaningful methane production on this site.

Complete gas reports for the Ramsey and Fighting Creek systems are available for review at the Idaho DEQ, Coeur d' Alene Office or the Kootenai County Solid Waste Department.

## **WATER**

There are two water monitoring systems at the Fighting Creek Landfill. These reports provide an extract from each of our water monitoring programs. The full report is maintained on file at the local DEQ Office or at the Solid Waste Department Administrative Office.

## **SURFACE WATER**

The Idaho Department of Environmental Quality has established rules for surface water monitoring at the Fighting Creek Landfill. Over time, an extensive surface water treatment infrastructure has been established to assure that the water leaving the site is clean.



A series of sedimentation ponds have been established throughout the landfill to accept run-off from all of the local drainage areas. These ponds function in pairs to aid in removing suspended solids. Each pond in the set is designed for a minimum of four hours of retention time. The ponds are cleaned during the summer months when it is determined the silt has significantly reduced the holding capacity of water in the pond.

Water leaving the ponds is then conveyed through a large vegetated, bio-mass drainage that filters the runoff using natural processes. This biomass or vegetative drainage continues to clean the water. Within the drainage there are a series of “finishing dams” working in concert with the vegetative filters to aid in the cleansing process. The “finishing dams” aid in slowing

down the run-off water thus allowing time for the vegetation to filter out sediment.

Enhanced wetland structures also help to remove solids and provide a robust microenvironment that positively affects local wildlife by providing valuable nesting and forage areas as well as other important habitat. We have an abundance of geese and ducks that migrate to our wetlands each year to give birth to their offspring.

The impact from our efforts is the water leaving the site is clean and is consistently of higher quality than the receiving drainages the water flows into.

## **GROUND WATER**

The landfill operating permit requires us to establish and operate a groundwater monitoring system. The original landfill footprint has seven ground water monitoring points. These have been sampled from approximately 1991 until the present. In 2005, there were six additional ground water monitoring wells established to support the new East landfill. As part of a community outreach program, two domestic wells are also sampled during the semi-annual sampling events.

These 13 ground water monitoring wells are sampled twice a year. The location of the wells are both up gradient and down gradient from the landfill portion of the property to allow for a comparative analysis to determine if any ground water degradation has occurred as a result of landfill operations. To date, no degradation to ground water at the landfill or the domestic well sites has been found.

## **LANDFILL FUTURE DEVELOPMENT**



In 2016, the Solid Waste Department will commence planning for long-term development. The landfill property includes an area to the South and West of the original landfill and site development options are needed to ensure proper planning, permitting, design and financing. This area will provide for solid waste disposal needs for Kootenai County through approximately 2070.

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## Customer Service – Collection Sites 2015

### CUSTOMERS

The Kootenai County Solid Waste System is totally owned by the citizens of Kootenai County and exists solely for their use. The Solid Waste Department is an affordable asset to Kootenai County with a positive customer service reputation. A great deal of effort and funds are expended to provide safe and efficient service to citizens while working to deny access when out of county customers attempt to use the facilities.



In 2015, staff assisted a total of 635,669 customers – an increase of 35,344 customers from last year. The Ramsey Transfer Station served 308,047 customers, Prairie 148,617 customers, and staffed rural sites 179,005 customers. These totals do not take into account the eleven other rural sites that are being used throughout the County.

The Ramsey Transfer Station saw an increase in customers served of 26,295 or 9.3% over last year. An average of 859 customers per day were served with the Saturday being the busiest day of the week with an average of 1,041 customers and Thursday the lowest with an average of 764 customers. The lowest customer day was December 24, 2015 with 307 customers and highest on November 18, 2015 with 1,632 customers. May was the busiest customer month with 31,262 and the lightest customer month was January with 16,546.

The Prairie Transfer Station saw an increase in customers served of 17,636 or 13.46% over last year. An average of 414 customers per day were served with Saturday being the busiest day of the week with an average of 568 customers and Thursday the lowest with an average of 337 customers. The lowest customer day was December 24, 2015 with 123 customers and highest on April 18, 2015 with 801 customers. May was the busiest customer month with 14,927 with the lightest month being January with 7,760.

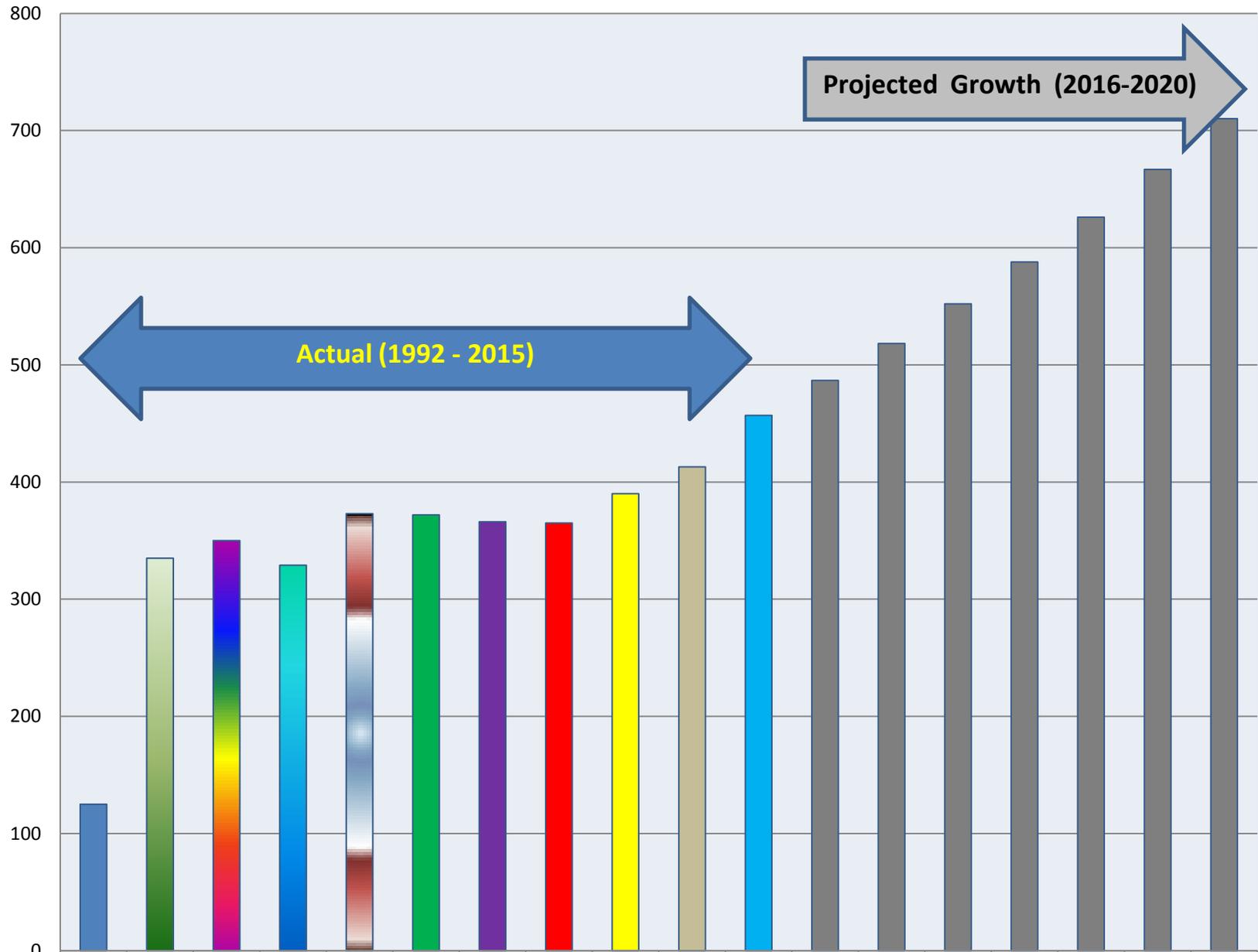
On November 17, 2015, North Idaho experienced a severe windstorm resulting in increased customers at the Ramsey and Prairie Transfer Stations disposing of wood debris. The customer counts jumped in late November and early December to reflect a higher monthly increase in customers than prior months.

In addition to the two transfer stations, Kootenai County has 13 rural residential collection sites. In October, 2014 the Twin and Garwood sites were permanently closed and the new site at Chilco Road opened. The Chilco and Athol sites in the north are staffed for safety and assistance. The Department will continue to plan and prepare to purchase additional property and staff the rural sites that are provided by Kootenai County and consolidate or expand services in the coming years.



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# Transfer Stations - Customer History

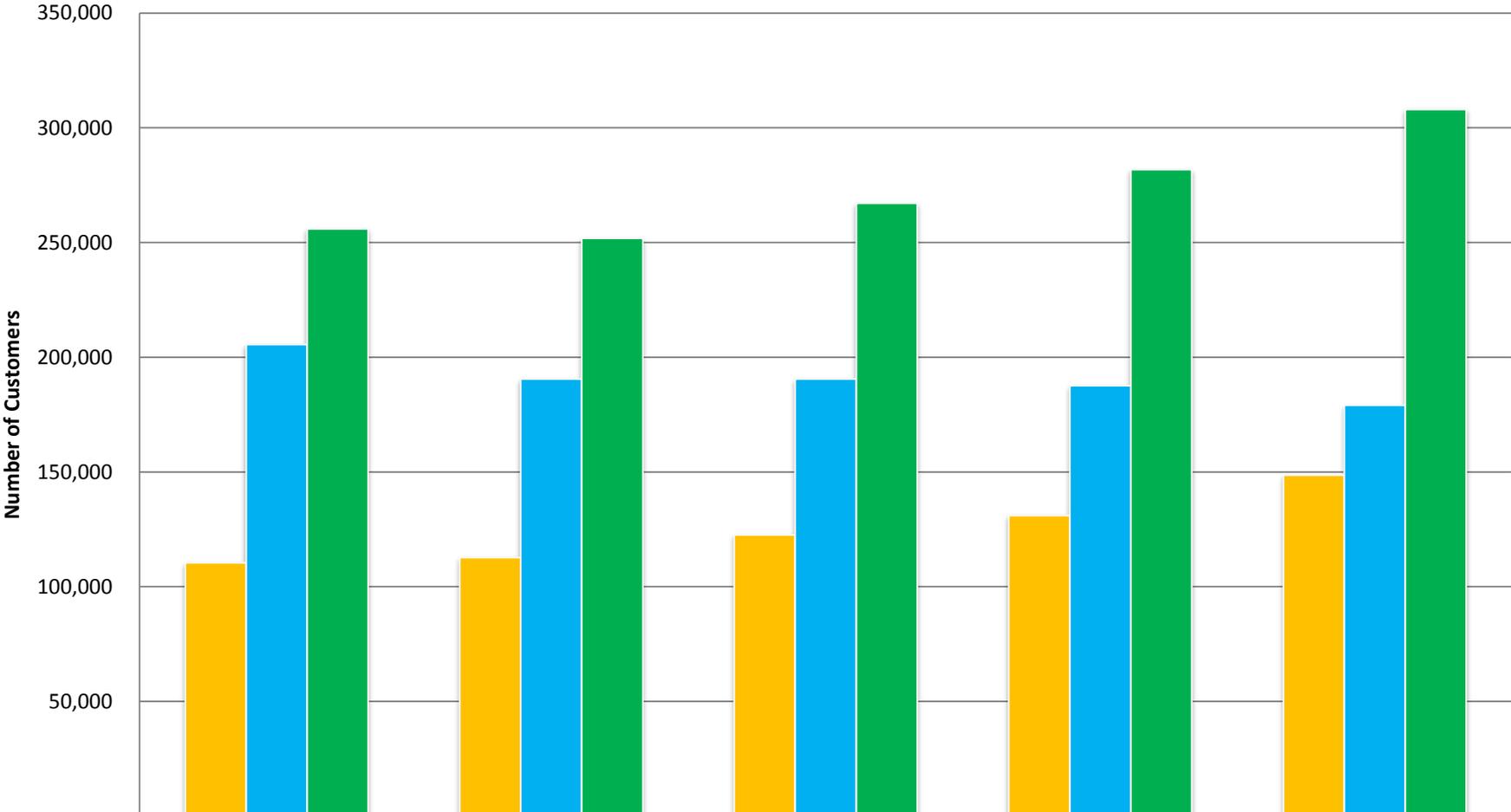


■ Customers (K)

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1992 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| 125  | 335  | 350  | 329  | 373  | 372  | 366  | 365  | 390  | 413  | 457  | 487  | 518  | 552  | 588  | 626  | 667  | 710  |

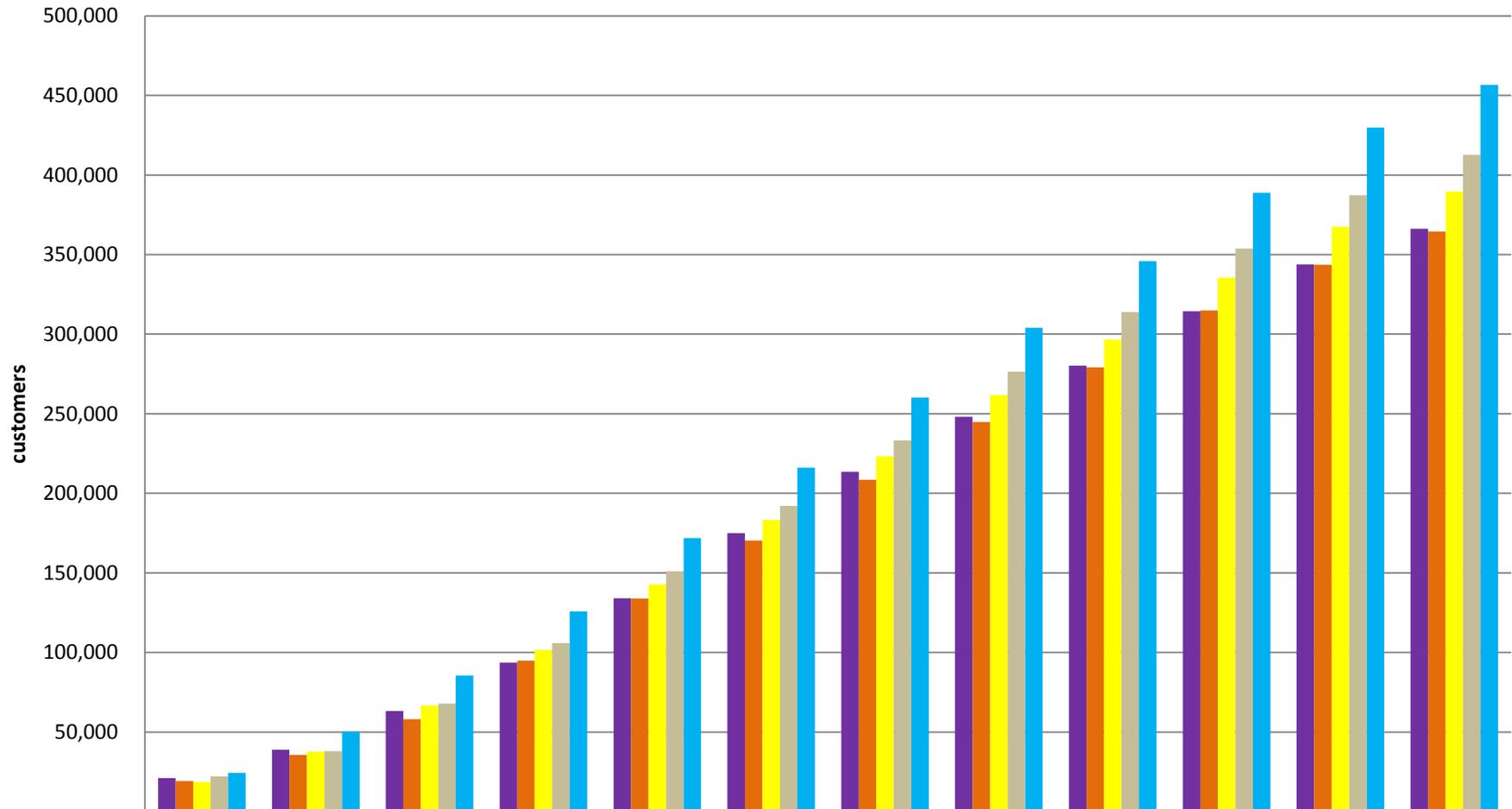
# Total Department Customers

## Total 635,669



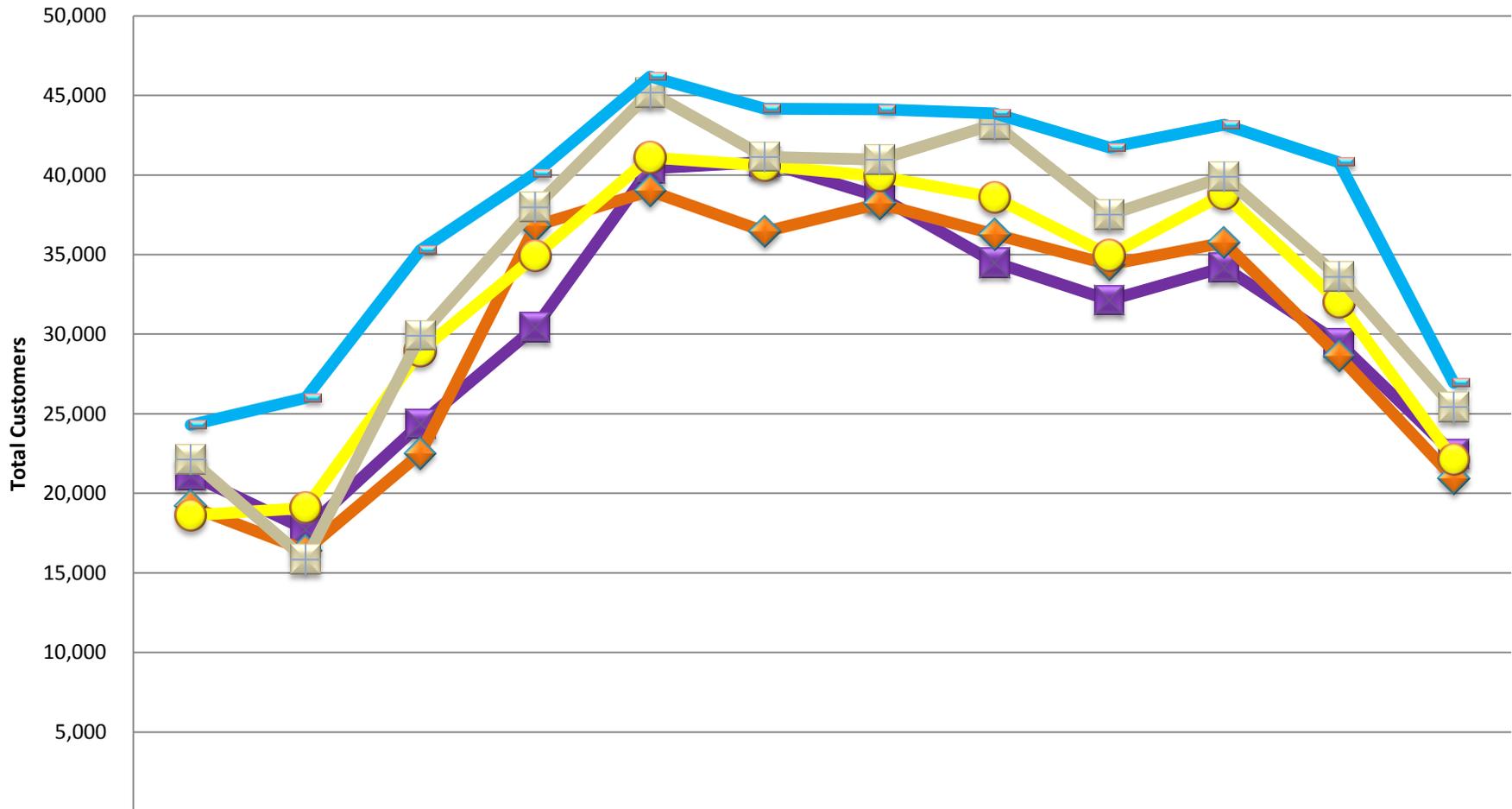
|           | 2011    | 2012    | 2013    | 2014    | 2015    |
|-----------|---------|---------|---------|---------|---------|
| ■ Prairie | 110,405 | 112,703 | 122,575 | 130,981 | 148,617 |
| ■ Rural   | 205,532 | 190,423 | 190,541 | 187,592 | 179,005 |
| ■ Ramsey  | 255,910 | 251,821 | 267,052 | 281,752 | 308,047 |

# Monthly Cumulative Customers - Transfer Stations



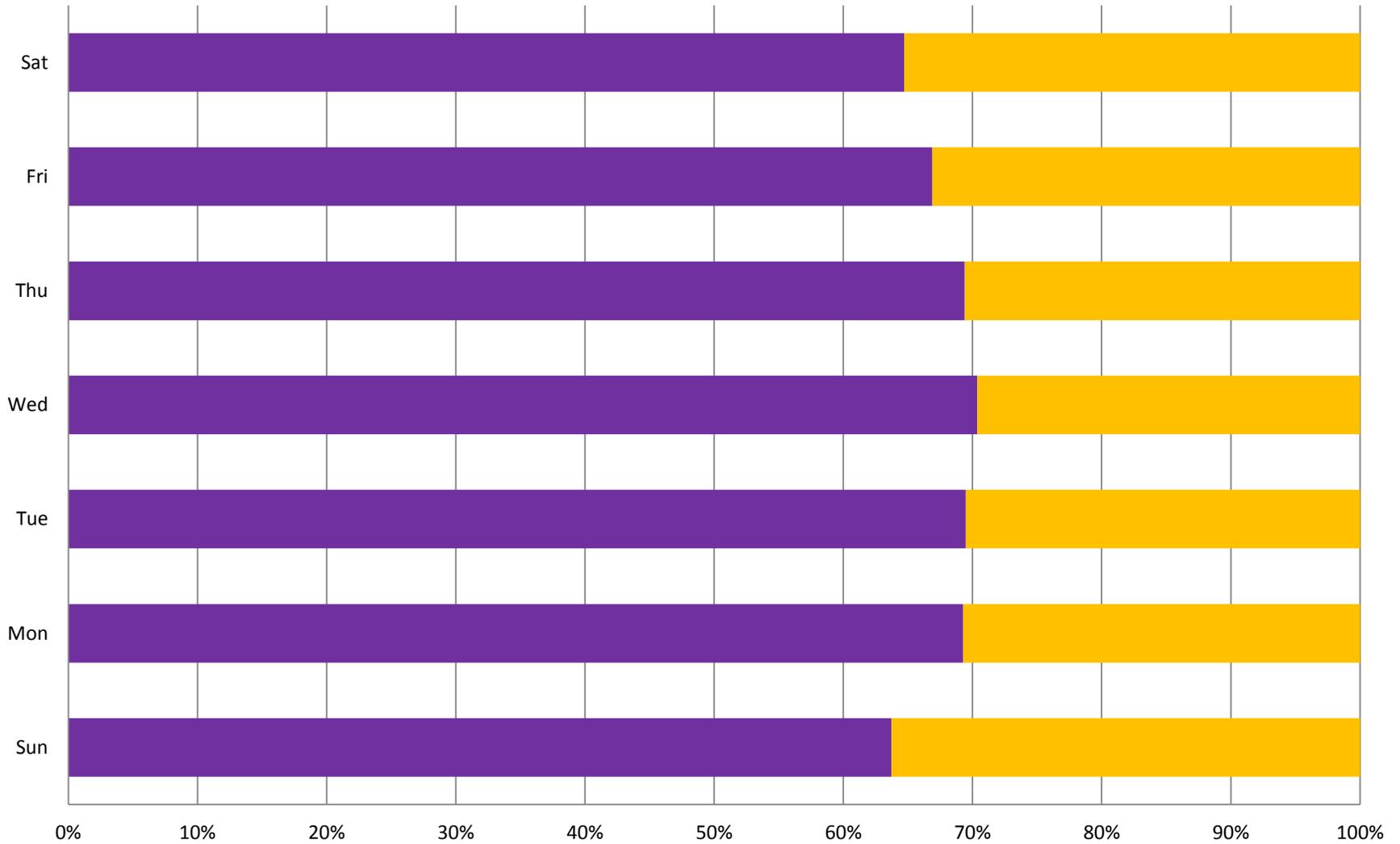
|      | Jan    | Feb    | Mar    | Apr     | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |
|------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2011 | 21,164 | 38,903 | 63,261 | 93,690  | 134,107 | 174,924 | 213,564 | 248,068 | 280,201 | 314,396 | 343,838 | 366,315 |
| 2012 | 19,192 | 35,609 | 58,115 | 94,917  | 133,921 | 170,363 | 208,567 | 244,843 | 279,210 | 314,953 | 343,584 | 364,524 |
| 2013 | 18,607 | 37,689 | 66,637 | 101,545 | 142,649 | 183,231 | 223,146 | 261,736 | 296,686 | 335,502 | 367,514 | 389,627 |
| 2014 | 22,122 | 37,959 | 67,871 | 105,850 | 151,031 | 192,180 | 233,145 | 276,333 | 313,829 | 353,733 | 387,332 | 412,743 |
| 2015 | 24,306 | 50,302 | 85,593 | 125,697 | 171,886 | 216,042 | 260,169 | 304,044 | 345,767 | 388,927 | 429,728 | 456,664 |

# Customers by Month - Transfer Stations



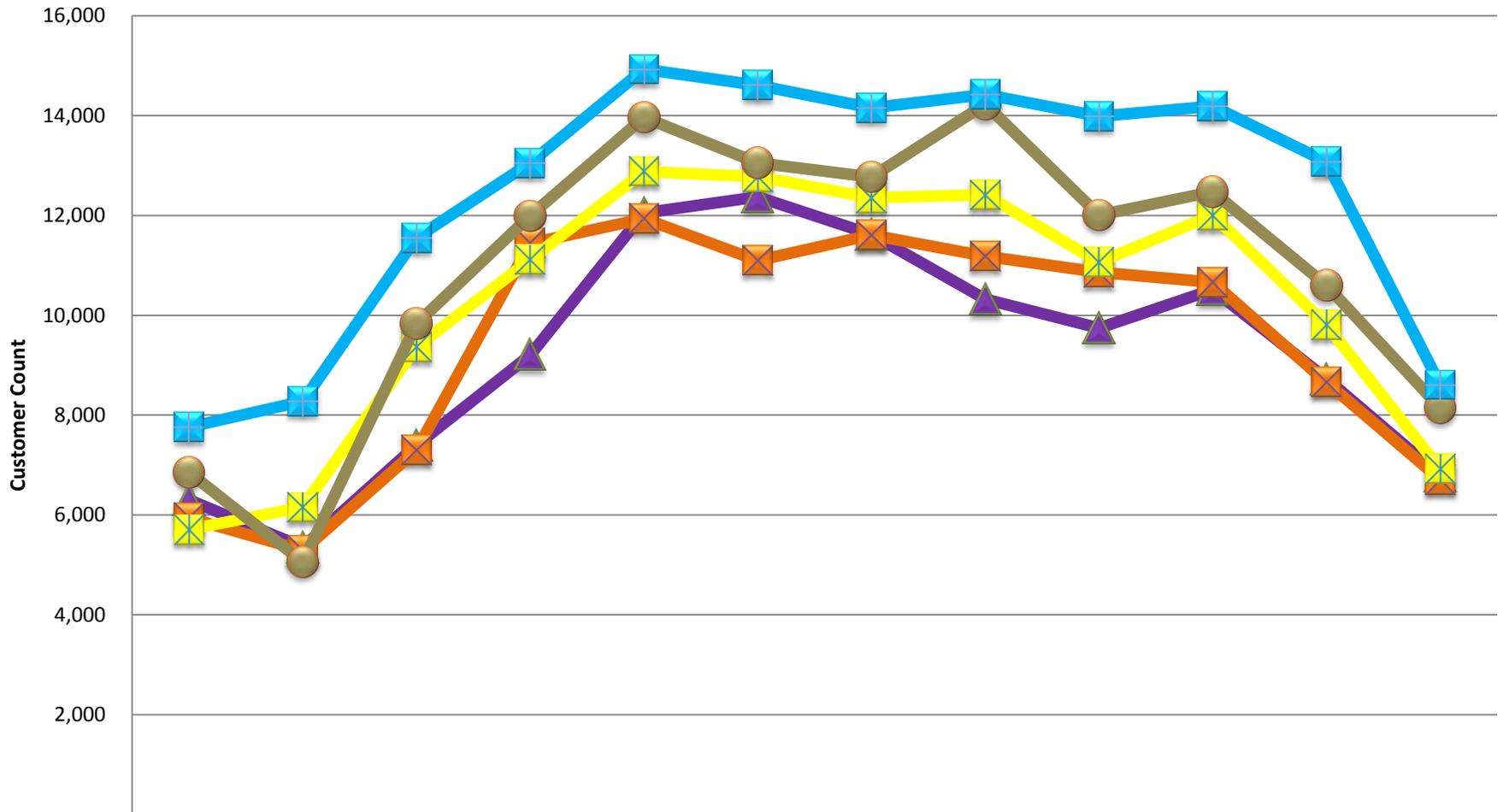
|      | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2011 | 21,164 | 17,739 | 24,358 | 30,429 | 40,417 | 40,817 | 38,640 | 34,504 | 32,133 | 34,195 | 29,442 | 22,477 |
| 2012 | 19,192 | 16,417 | 22,506 | 36,802 | 39,004 | 36,442 | 38,204 | 36,276 | 34,367 | 35,743 | 28,631 | 20,940 |
| 2013 | 18,607 | 19,082 | 28,948 | 34,908 | 41,104 | 40,582 | 39,915 | 38,590 | 34,950 | 38,816 | 32,012 | 22,113 |
| 2014 | 22,122 | 15,837 | 29,912 | 37,979 | 45,181 | 41,149 | 40,965 | 43,188 | 37,496 | 39,904 | 33,599 | 25,411 |
| 2015 | 24,306 | 25,996 | 35,291 | 40,104 | 46,189 | 44,156 | 44,127 | 43,875 | 41,723 | 43,160 | 40,801 | 26,936 |

## Average Daily Customers - Transfer Stations



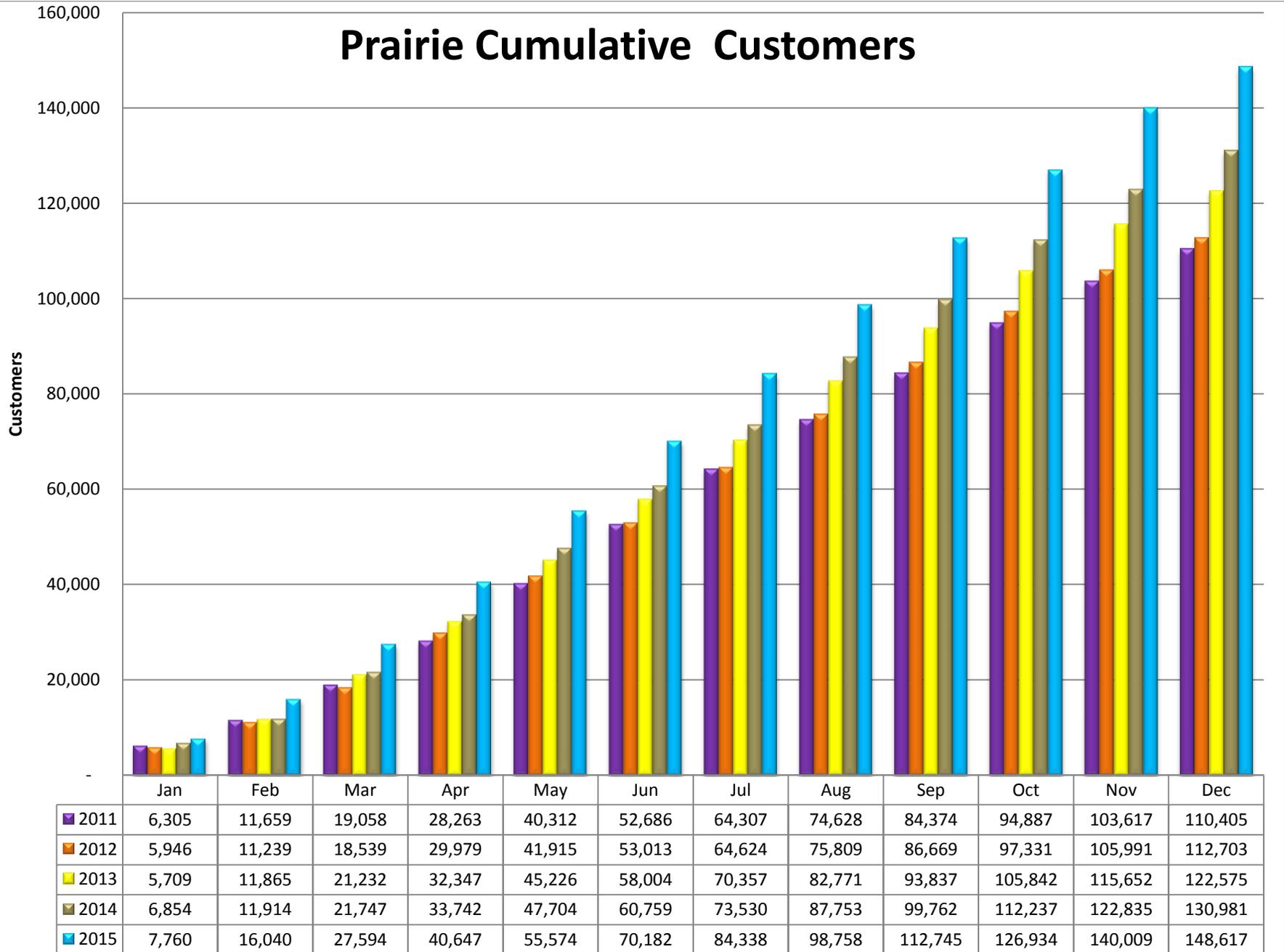
|           | Sun | Mon | Tue | Wed | Thu | Fri | Sat  |
|-----------|-----|-----|-----|-----|-----|-----|------|
| ■ Ramsey  | 857 | 891 | 790 | 824 | 764 | 844 | 1041 |
| ■ Prairie | 488 | 395 | 347 | 347 | 337 | 418 | 568  |

### Prairie Customers By Month

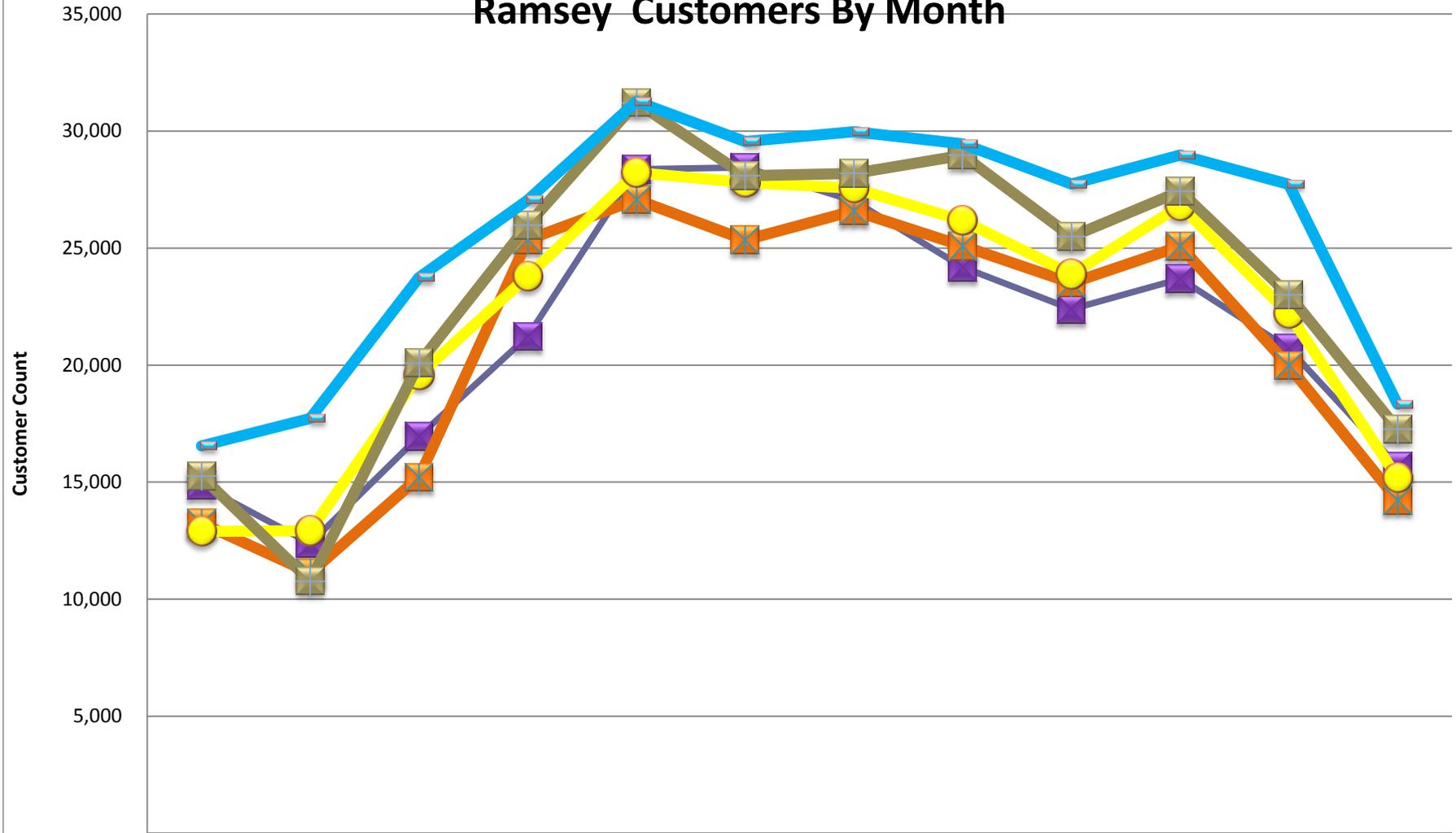


|        | Jan   | Feb   | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec   |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| ▲ 2011 | 6,305 | 5,354 | 7,399  | 9,205  | 12,049 | 12,374 | 11,621 | 10,321 | 9,746  | 10,513 | 8,730  | 6,788 |
| ■ 2012 | 5,946 | 5,293 | 7,300  | 11,440 | 11,936 | 11,098 | 11,611 | 11,185 | 10,860 | 10,662 | 8,660  | 6,712 |
| ■ 2013 | 5,709 | 6,156 | 9,367  | 11,115 | 12,879 | 12,778 | 12,353 | 12,414 | 11,066 | 12,005 | 9,810  | 6,923 |
| ● 2014 | 6,854 | 5,060 | 9,833  | 11,995 | 13,962 | 13,055 | 12,771 | 14,223 | 12,009 | 12,475 | 10,598 | 8,146 |
| ■ 2015 | 7,760 | 8,280 | 11,554 | 13,053 | 14,927 | 14,608 | 14,156 | 14,420 | 13,987 | 14,189 | 13,075 | 8,608 |

# Prairie Cumulative Customers

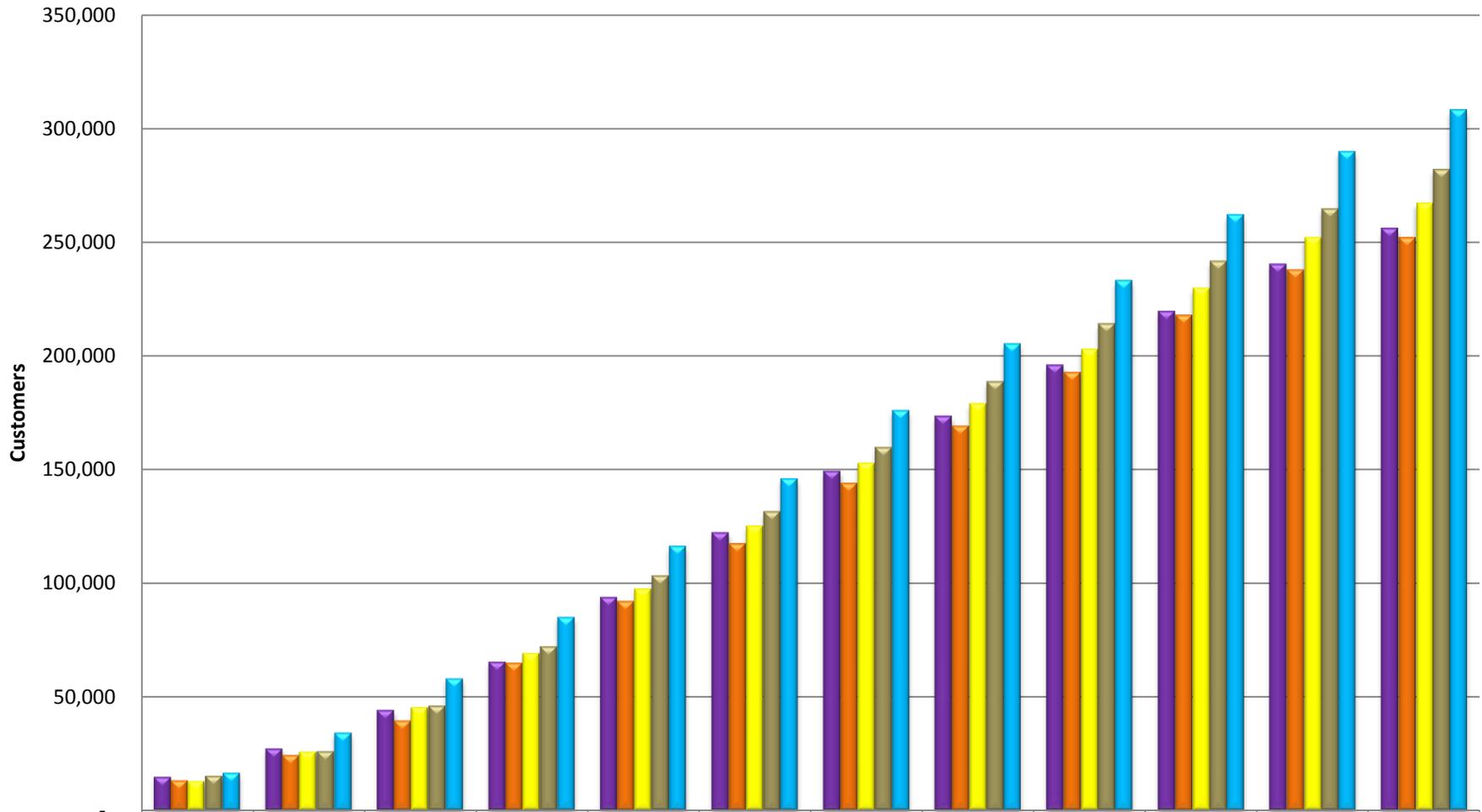


### Ramsey Customers By Month



|      | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2011 | 14,859 | 12,385 | 16,959 | 21,224 | 28,368 | 28,443 | 27,019 | 24,183 | 22,387 | 23,682 | 20,712 | 15,689 |
| 2012 | 13,246 | 11,124 | 15,206 | 25,362 | 27,068 | 25,344 | 26,593 | 25,091 | 23,507 | 25,081 | 19,971 | 14,228 |
| 2013 | 12,898 | 12,926 | 19,581 | 23,793 | 28,225 | 27,804 | 27,562 | 26,176 | 23,884 | 26,811 | 22,202 | 15,190 |
| 2014 | 15,258 | 10,777 | 20,079 | 25,984 | 31,219 | 28,094 | 28,194 | 28,965 | 25,487 | 27,429 | 23,001 | 17,265 |
| 2015 | 16,546 | 17,716 | 23,737 | 27,051 | 31,262 | 29,548 | 29,971 | 29,455 | 27,736 | 28,971 | 27,726 | 18,328 |

## Ramsey Cumulative Customers



|      | Jan    | Feb    | Mar    | Apr    | May     | Jun     | Jul     | Aug     | Sep     | Oct     | Nov     | Dec     |
|------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2011 | 14,859 | 27,244 | 44,203 | 65,427 | 93,795  | 122,238 | 149,257 | 173,440 | 195,827 | 219,509 | 240,221 | 255,910 |
| 2012 | 13,246 | 24,370 | 39,576 | 64,938 | 92,006  | 117,350 | 143,943 | 169,034 | 192,541 | 217,622 | 237,593 | 251,821 |
| 2013 | 12,898 | 25,824 | 45,405 | 69,198 | 97,423  | 125,227 | 152,789 | 178,965 | 202,849 | 229,660 | 251,862 | 267,052 |
| 2014 | 15,258 | 26,035 | 46,114 | 72,098 | 103,317 | 131,411 | 159,605 | 188,570 | 214,057 | 241,486 | 264,487 | 281,752 |
| 2015 | 16,546 | 34,262 | 57,999 | 85,050 | 116,312 | 145,860 | 175,831 | 205,286 | 233,022 | 261,993 | 289,719 | 308,047 |

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## **WASTE STREAM 2015**

In 2015 the Solid Waste System processed a total of 171,068 tons through the two transfer stations. This represents an increase of 7.4% (11,760 tons) over the 2014 figures for waste coming into the facilities. We then remove recyclable materials from the waste stream to reduce what goes into the landfill.

Waste shipped to the landfill in 2014 was 140,722 tons, which is up 6% or (7,744 tons) from the 2014 figures. We believe the increase in waste is due to the upturn in the economy with additional construction and new business opportunities in Kootenai County. This is evidenced by the charts showing an increase in Construction/Demolition and Inert materials.

A chart is included depicting the waste stream by source. This shows that 64% of the waste through the transfer stations comes from residential use, 28% from commercial activity and 8% from the rural systems. An interesting footnote is that 51% of the residential waste is brought to the transfer station by individual vehicles.

### **PRAIRIE TRANSFER STATION**

The Prairie Transfer Station received 58,908 tons of material in 2015. This represents an increase of 4,501 tons or 8.27% from 2014. The measurement of the Prairie Waste Stream is the weight of all commodities that entered the Prairie Transfer Station during the calendar year.

The average tons received daily was 164. The heaviest tonnage day was April 20, 2015 with 470.9 tons. The lowest tonnage day was February 1, 2015 with 20.5. May was the highest month with 5,848 tons received and February the lowest with 3,367 tons received. Friday was the highest average day with 211 tons and Sunday being the lowest average at 85 tons.

### **RAMSEY TRANSFER STATION**

The Ramsey Transfer Station received 112,160 tons of material in 2015. This represents an increase of 7,259 tons or 6.92% from last year. The measurement of the Ramsey Waste Stream is the weight of all commodities that entered the Ramsey Transfer Station during the calendar year.

The average tons received daily was 311. The heaviest tonnage day was May 26, 2015 with 570 tons. The lowest tonnage day was January 4, 2015 with 45.3 tons. July was the highest month with 11,272 tons and January the lowest month with 6,336 tons received. Monday was the highest average day of the week with 386 tons and Sunday is the lowest with 148 tons.

Although Ramsey is the oldest of the transfer stations, it still processes 64% of the waste in Kootenai County.

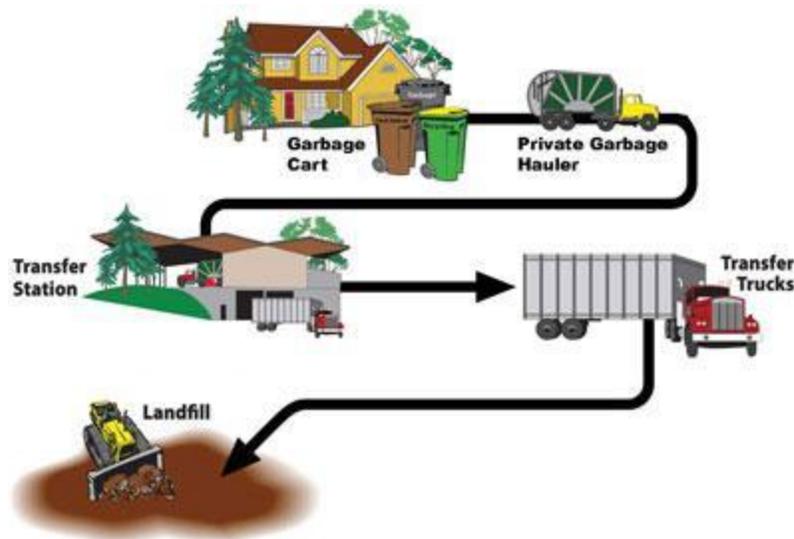
## FIGHTING CREEK LANDFILL

We operate a fully permitted and environmentally safe landfill. This facility is the key to keeping customer costs to a minimum. The Fighting Creek Landfill received 140,722 tons of refuse in 2015. This reflects an increase of 7,744 tons or 6% of waste placed into the landfill from 2014.

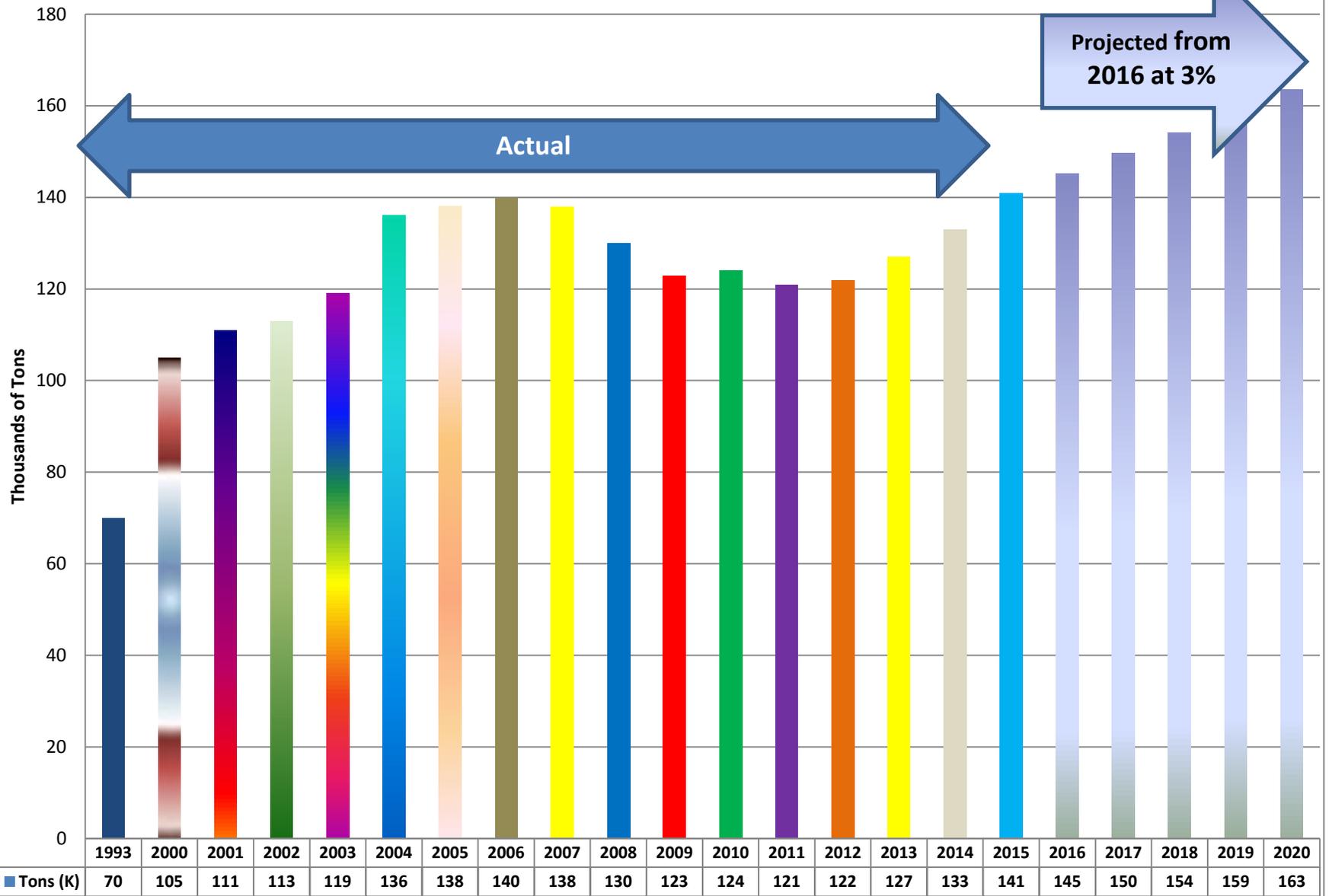
There has been a steady increase in waste going to the landfill for the last 4 years. This year, however, it has surpassed the 2007 record of 138,000 tons. The 2015 Life Cycle Analysis used a growth figure of 3% for historic average growth. Although for the last several years the Department has experienced an increase greater than 3%, the overall growth has not exceeded this planning standard. These figures will be examined again in three years upon completion of the next landfill life cycle analysis.

On August 5, 2013 placement of waste in Phase E1 of the East Cell of the landfill began. As of December 31, 2015, the Department has placed 318,267 tons of waste into this phase of the landfill. It is estimated that the Department will begin placing waste into the second phase of the East Cell (E2) in late 2016.

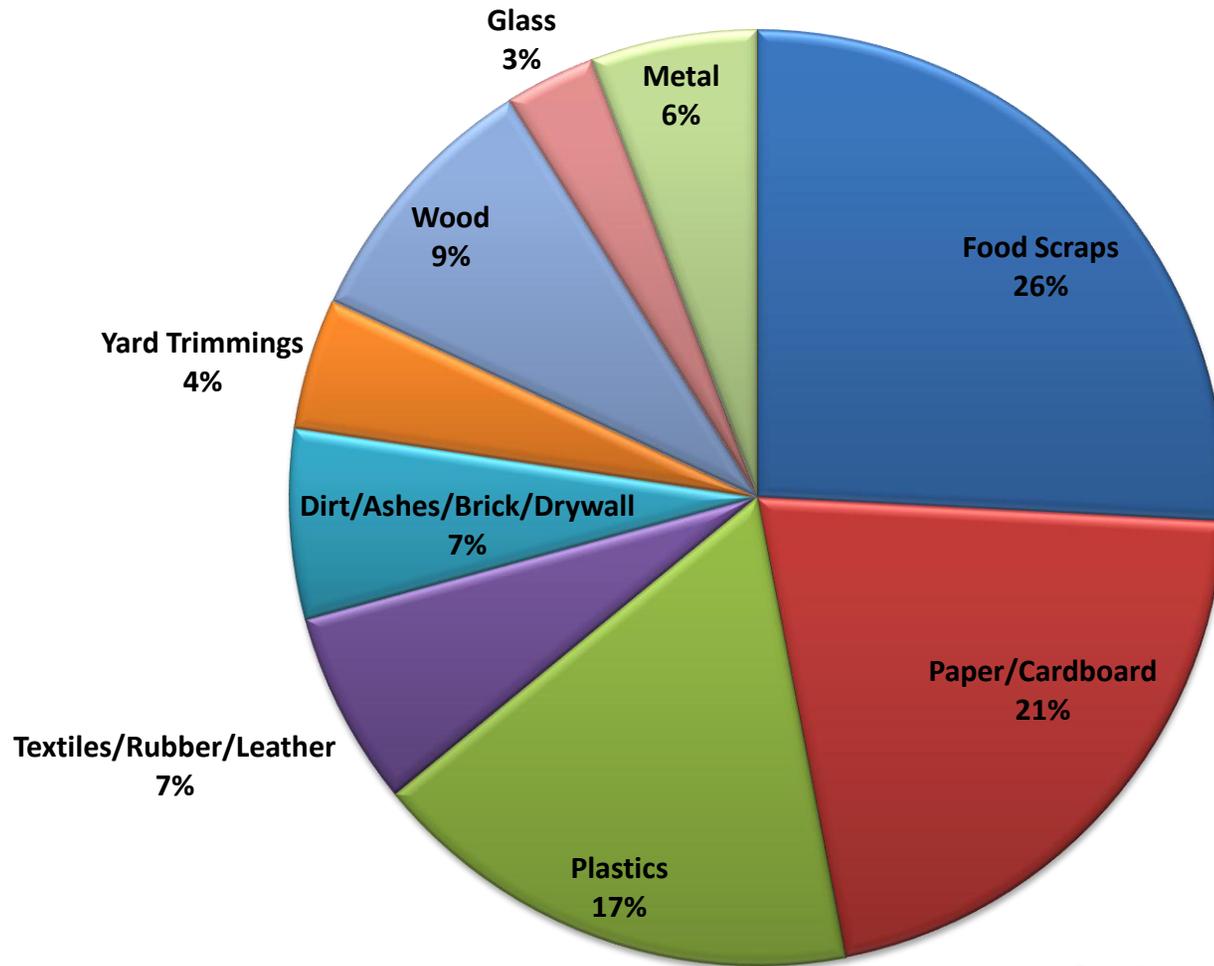
The Solid Waste Department is always looking at ways to decrease the amount of waste placed to extend the life expectancy of the landfill.



# Landfilled Waste History & Projection

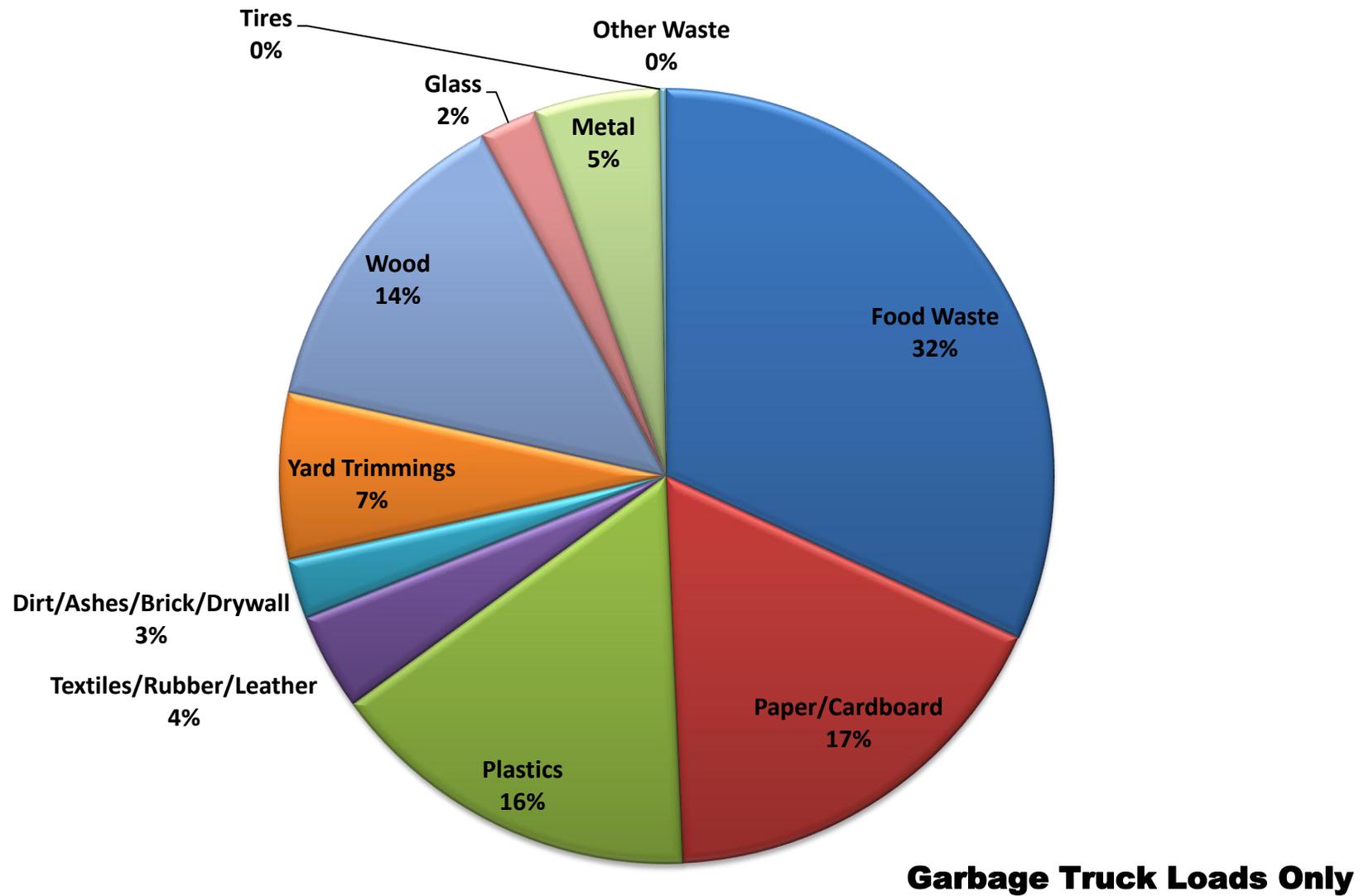


# Waste Stream Characterization Prairie Transfer Station

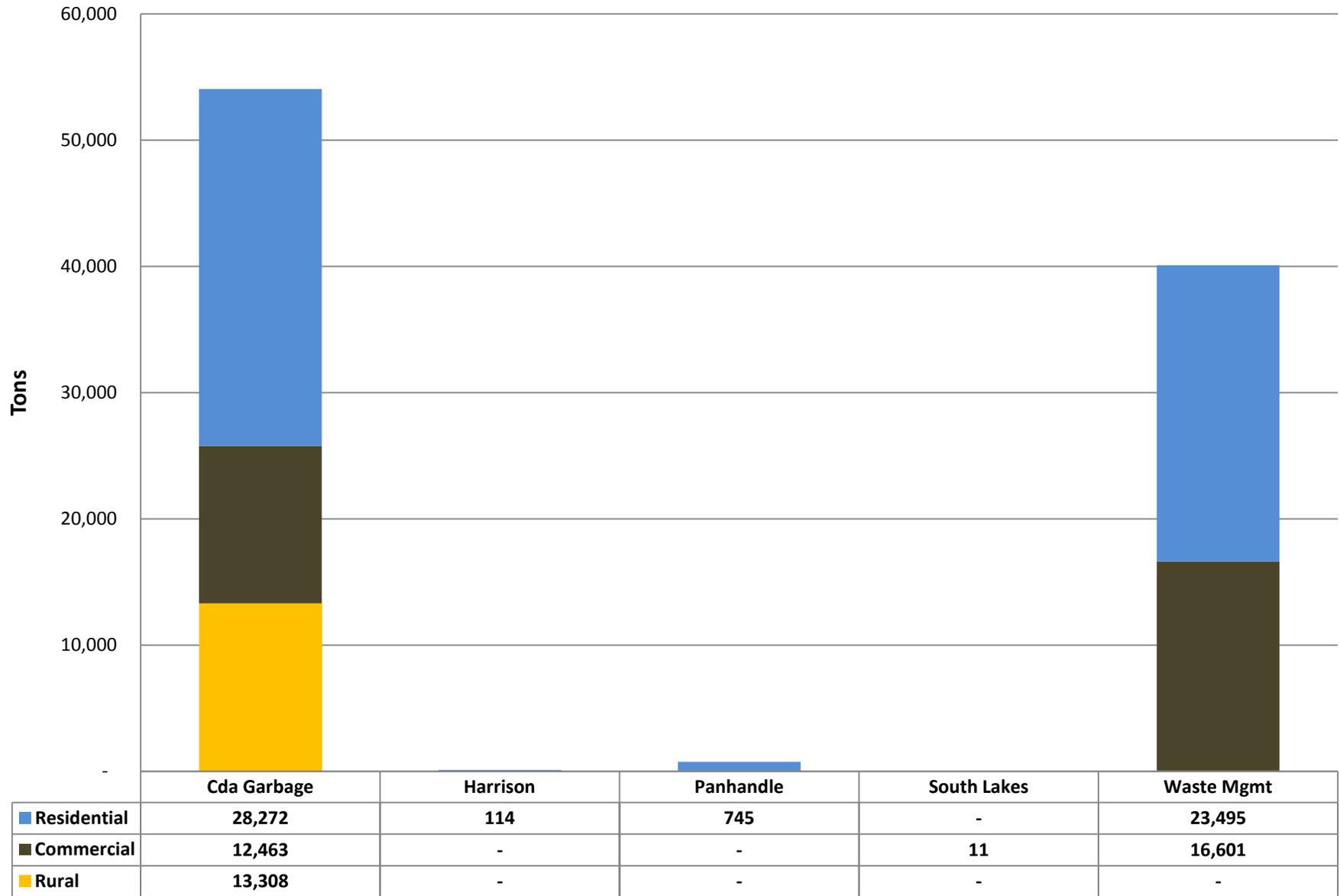


**Garbage Truck Loads Only**

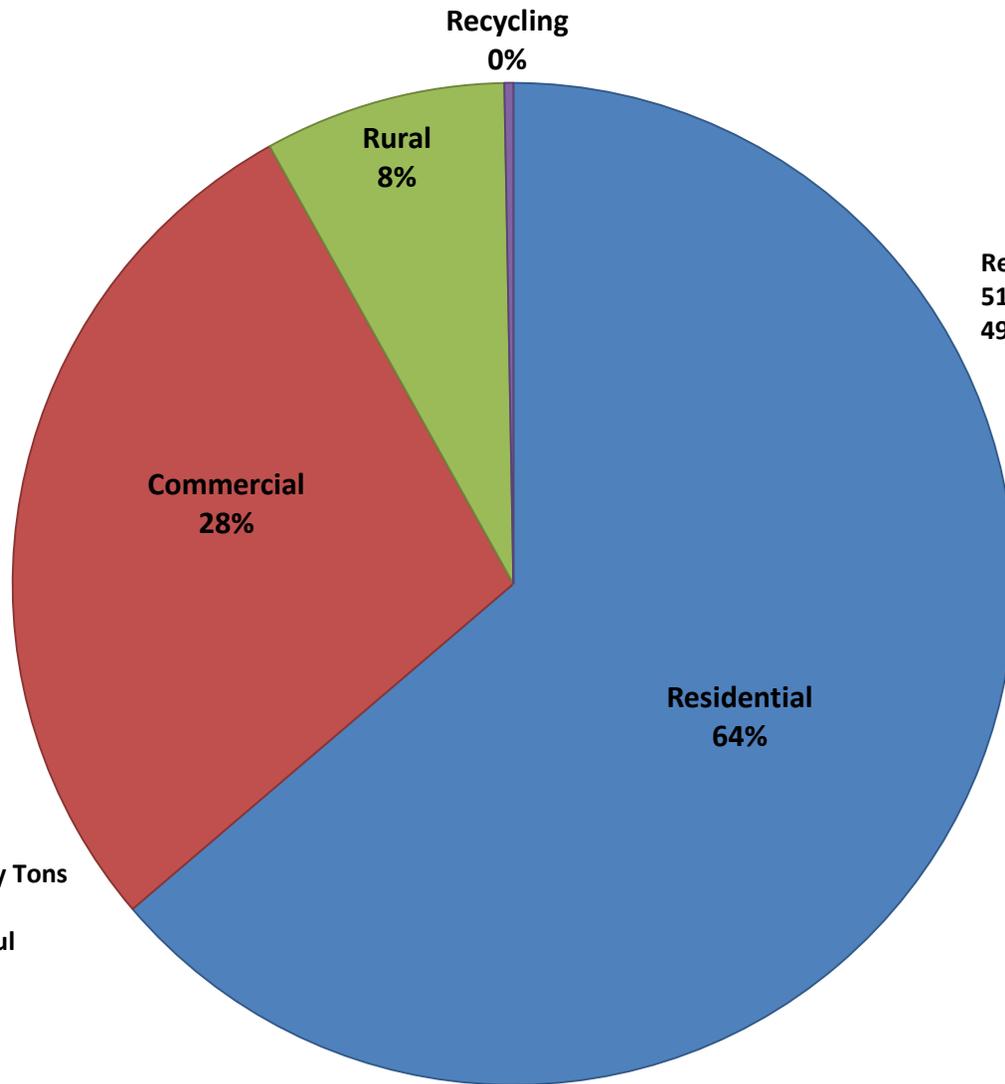
# Waste Stream Characterization Ramsey Transfer Station



# Breakdown by Hauler



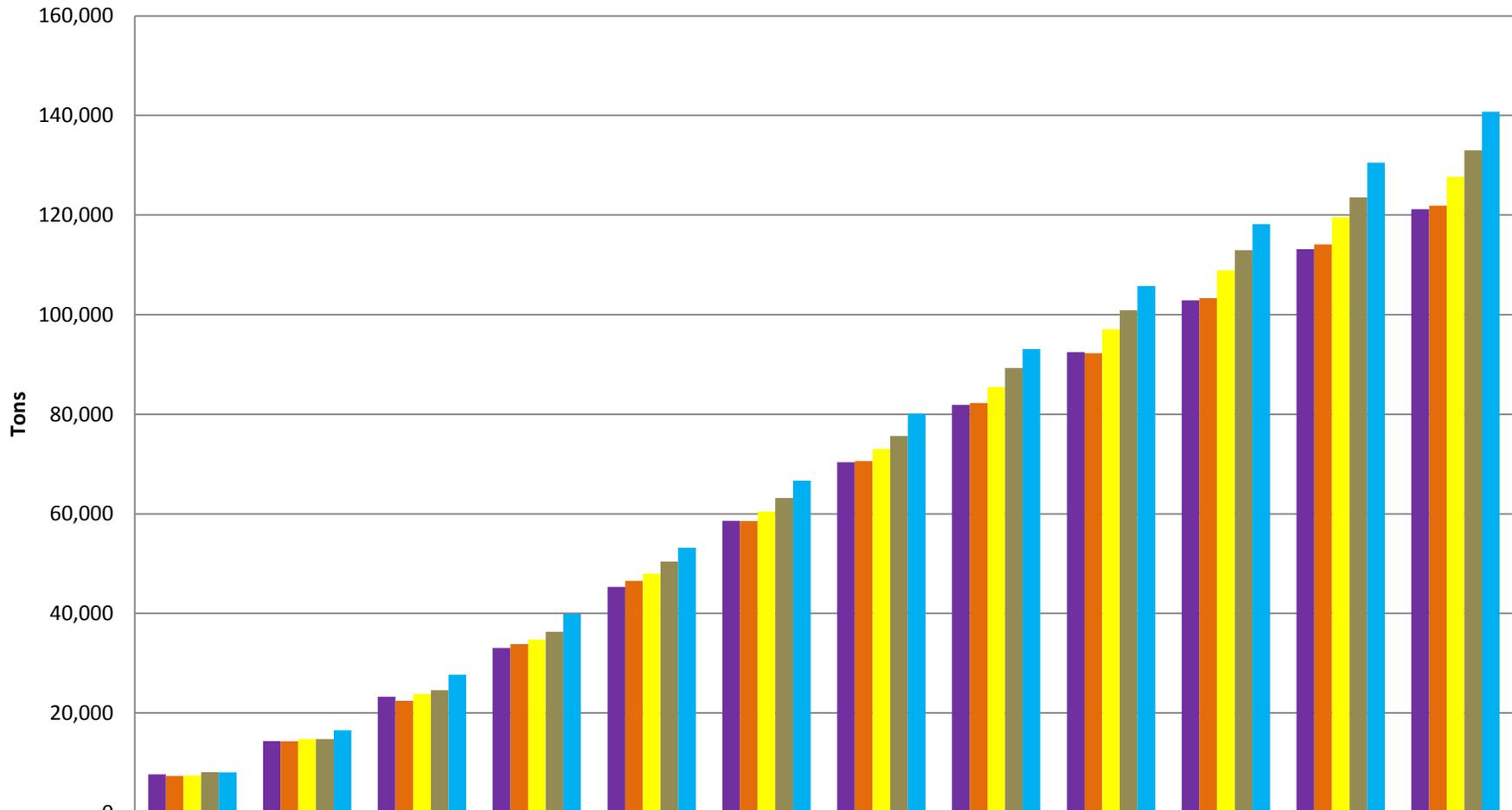
# Waste Stream by Source



**Residential Breakdown by Tons**  
51% = self haul  
49% = garbage haulers

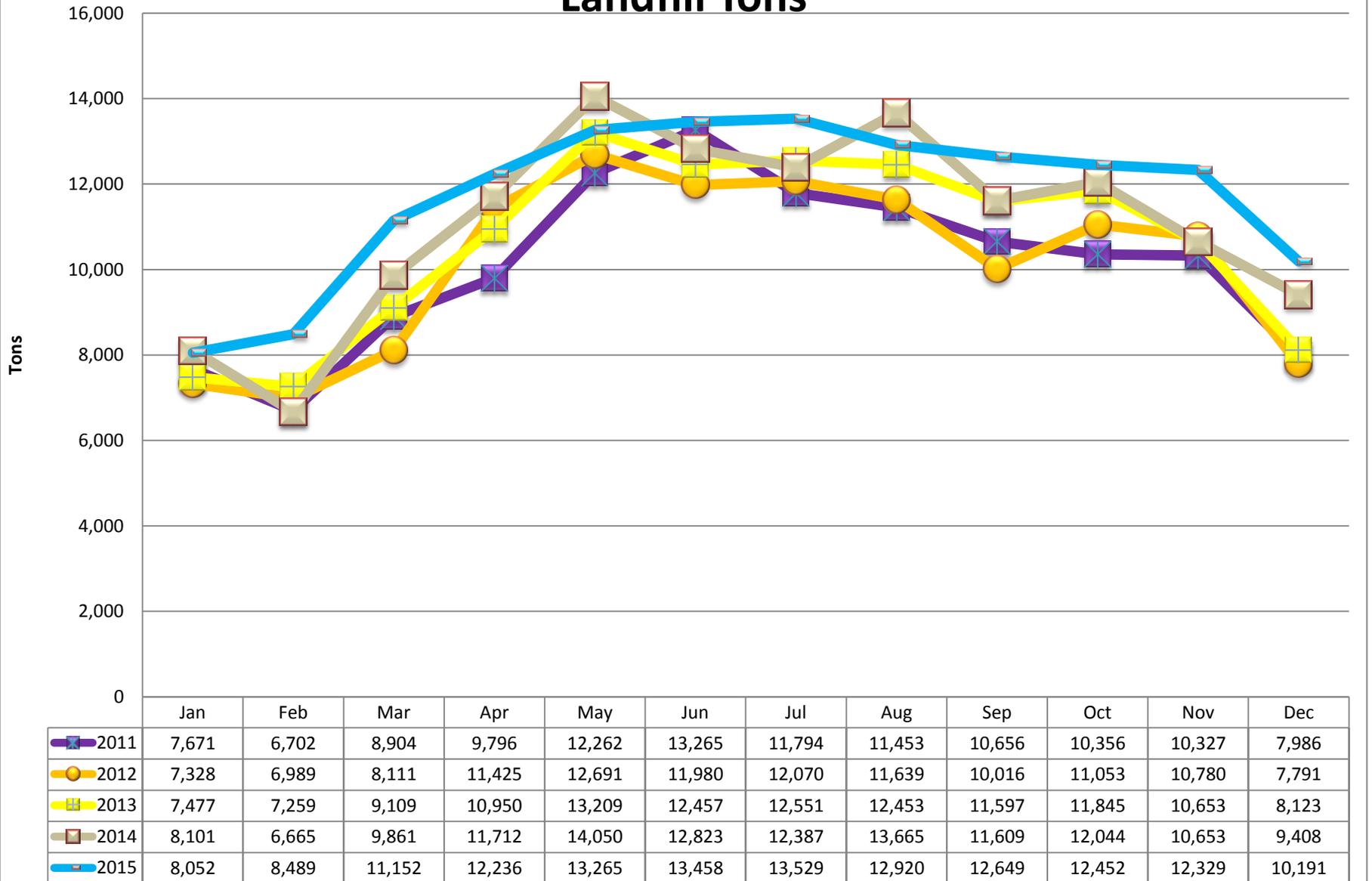
**Commercial Breakdown by Tons**  
61% = garbage haulers  
32% = commercial self haul  
7% = residential self haul

# Total Cumulative Tons - Landfill

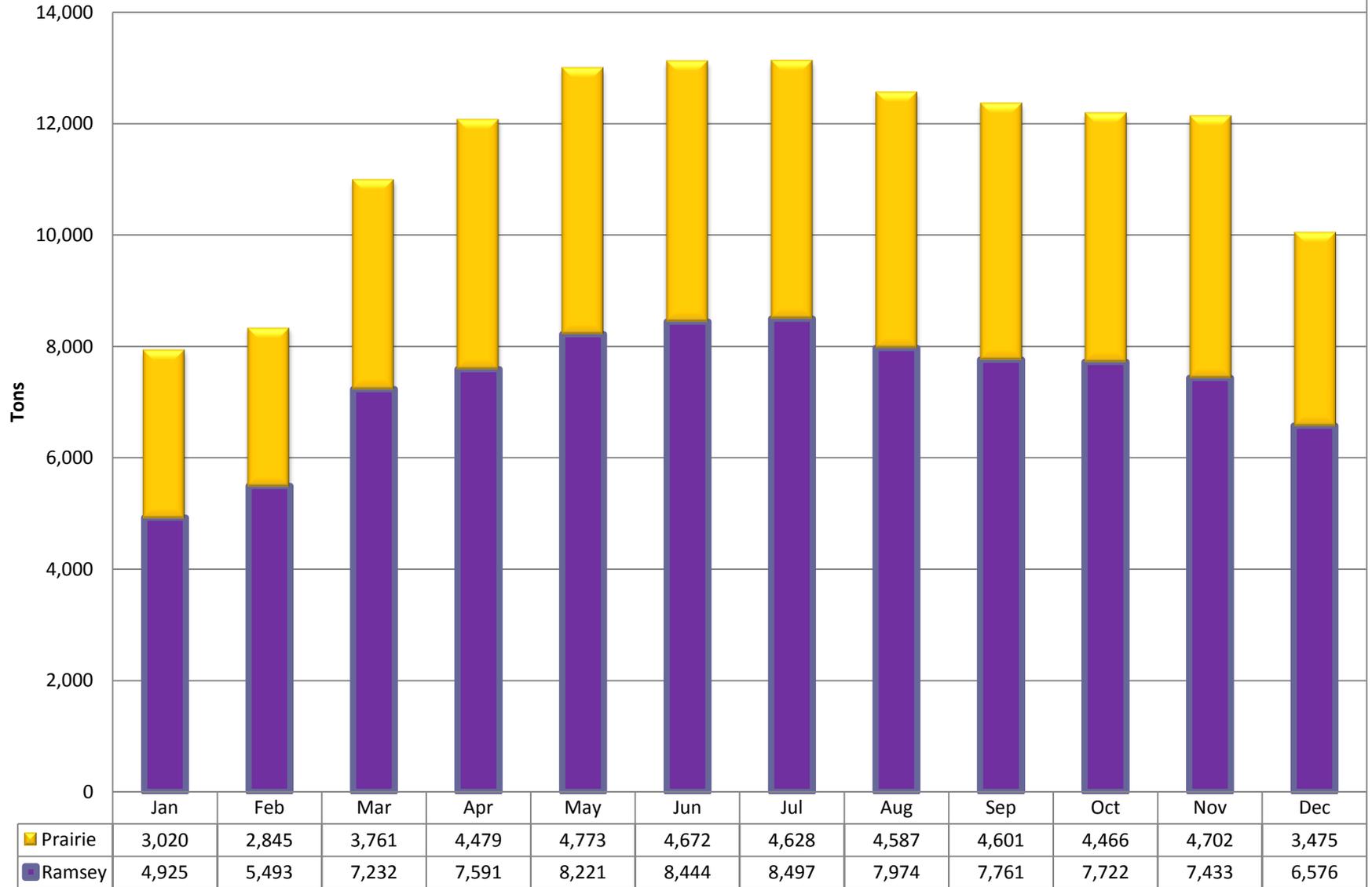


|      | Jan   | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep     | Oct     | Nov     | Dec     |
|------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 2011 | 7,671 | 14,373 | 23,277 | 33,073 | 45,335 | 58,600 | 70,394 | 81,847 | 92,503  | 102,859 | 113,186 | 121,172 |
| 2012 | 7,328 | 14,317 | 22,428 | 33,853 | 46,544 | 58,524 | 70,594 | 82,233 | 92,249  | 103,302 | 114,082 | 121,873 |
| 2013 | 7,477 | 14,736 | 23,845 | 34,795 | 48,004 | 60,461 | 73,012 | 85,465 | 97,062  | 108,907 | 119,560 | 127,683 |
| 2014 | 8,101 | 14,766 | 24,627 | 36,339 | 50,389 | 63,212 | 75,599 | 89,264 | 100,873 | 112,917 | 123,570 | 132,978 |
| 2015 | 8,052 | 16,541 | 27,693 | 39,929 | 53,194 | 66,652 | 80,181 | 93,101 | 105,751 | 118,202 | 130,531 | 140,722 |

# Monthly Landfill Tons

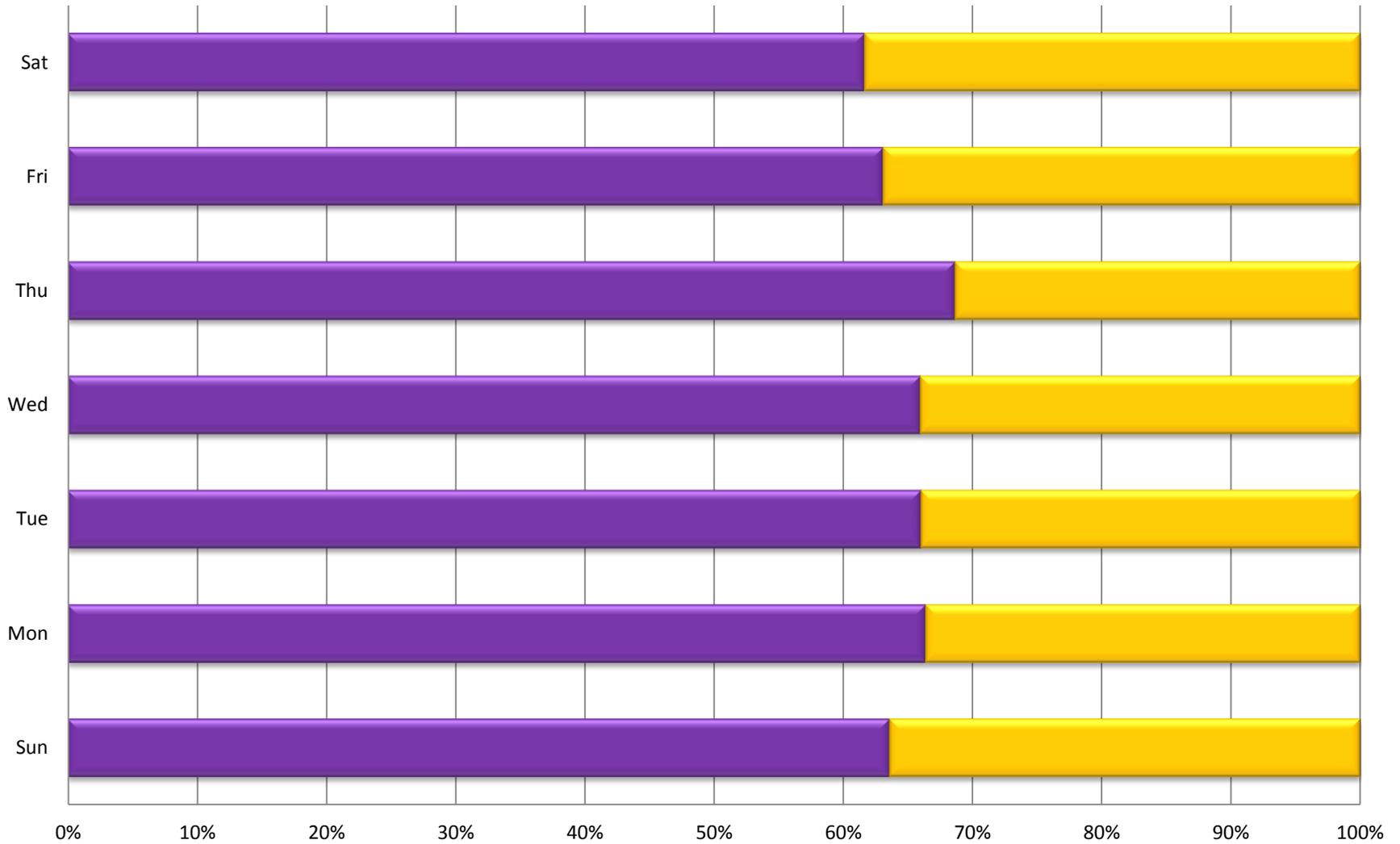


# Waste to Landfill by Transfer Station



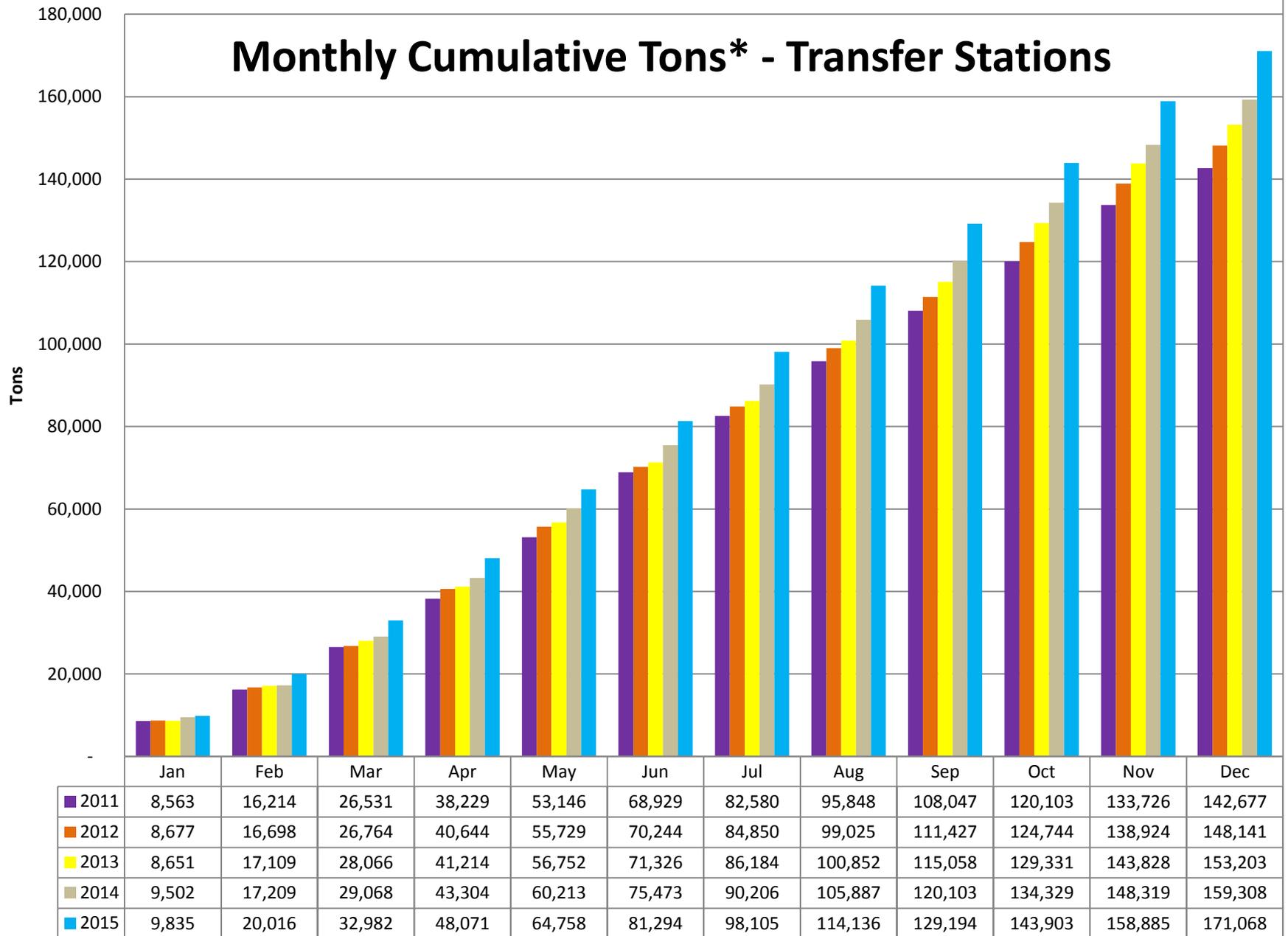
Prairie Total = 54,711 tons  
 Ramsey Total = 87,869 tons

## Average Daily Tons - Transfer Stations



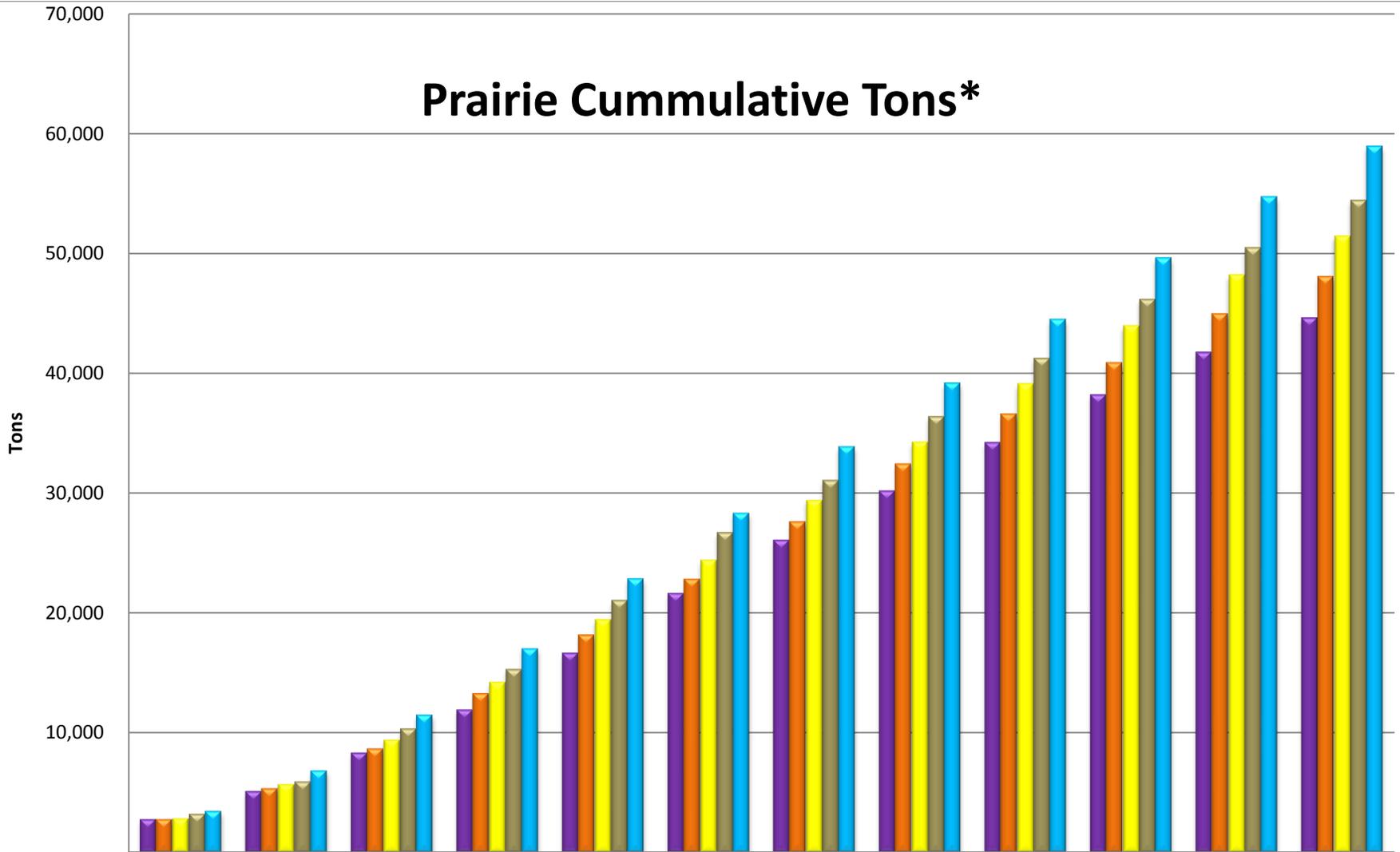
|           | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----------|-----|-----|-----|-----|-----|-----|-----|
| ■ Ramsey  | 148 | 386 | 367 | 359 | 374 | 361 | 188 |
| ■ Prairie | 85  | 195 | 188 | 185 | 170 | 211 | 116 |

# Monthly Cumulative Tons\* - Transfer Stations



\*Tons In - Before Recycling

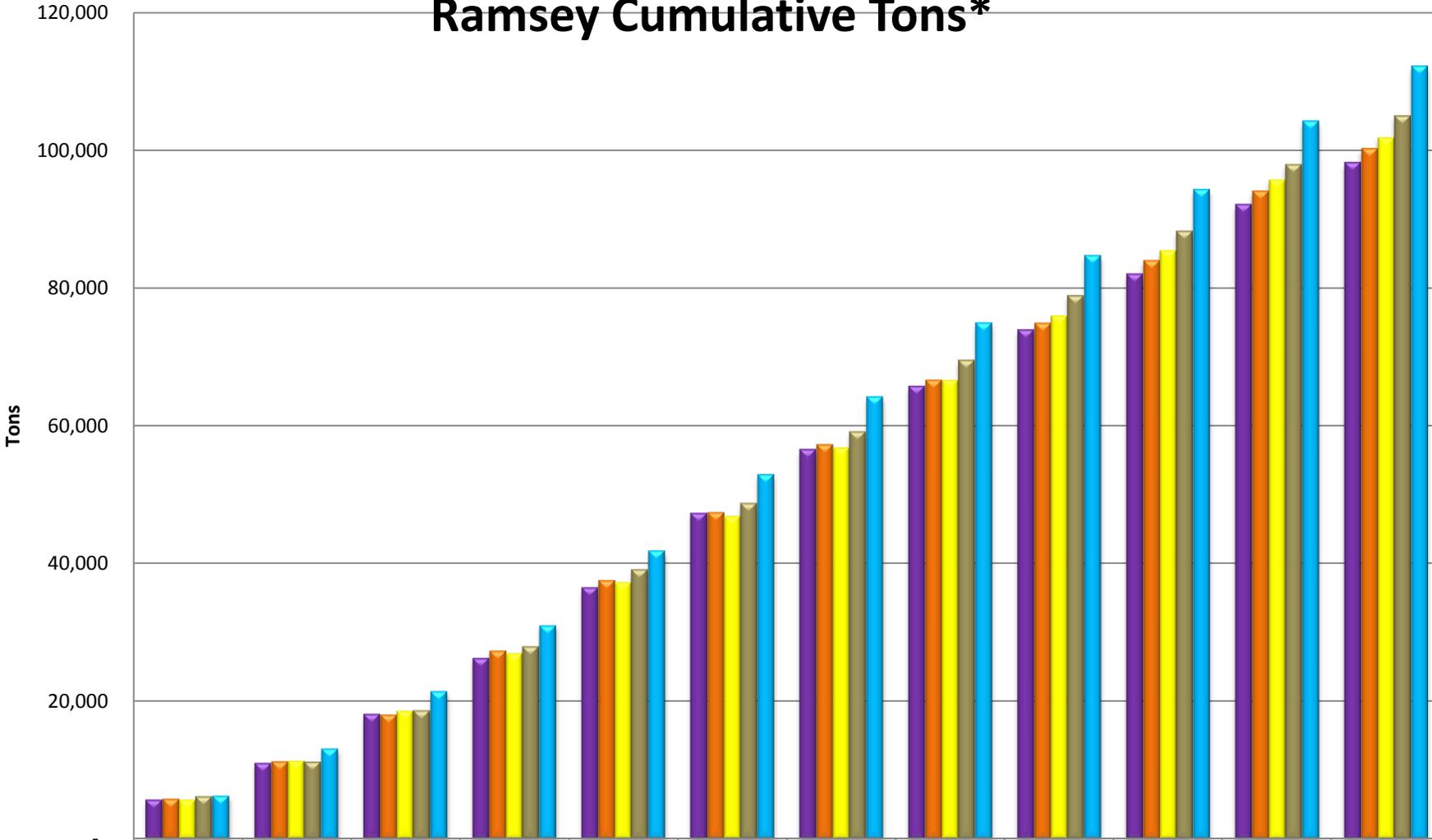
# Prairie Cummulative Tons\*



|      | Jan   | Feb   | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2011 | 2,807 | 5,144 | 8,351  | 11,945 | 16,678 | 21,652 | 26,087 | 30,195 | 34,214 | 38,183 | 41,730 | 44,603 |
| 2012 | 2,808 | 5,395 | 8,707  | 13,298 | 18,186 | 22,847 | 27,618 | 32,443 | 36,598 | 40,862 | 44,942 | 48,039 |
| 2013 | 2,885 | 5,722 | 9,429  | 14,239 | 19,453 | 24,421 | 29,390 | 34,240 | 39,099 | 43,913 | 48,162 | 51,405 |
| 2014 | 3,262 | 5,956 | 10,379 | 15,320 | 21,071 | 26,724 | 31,076 | 36,380 | 41,253 | 46,152 | 50,466 | 54,407 |
| 2015 | 3,499 | 6,866 | 11,516 | 17,039 | 22,887 | 28,348 | 33,887 | 39,191 | 44,487 | 49,621 | 54,705 | 58,908 |

\*Tons In - Before Recycling

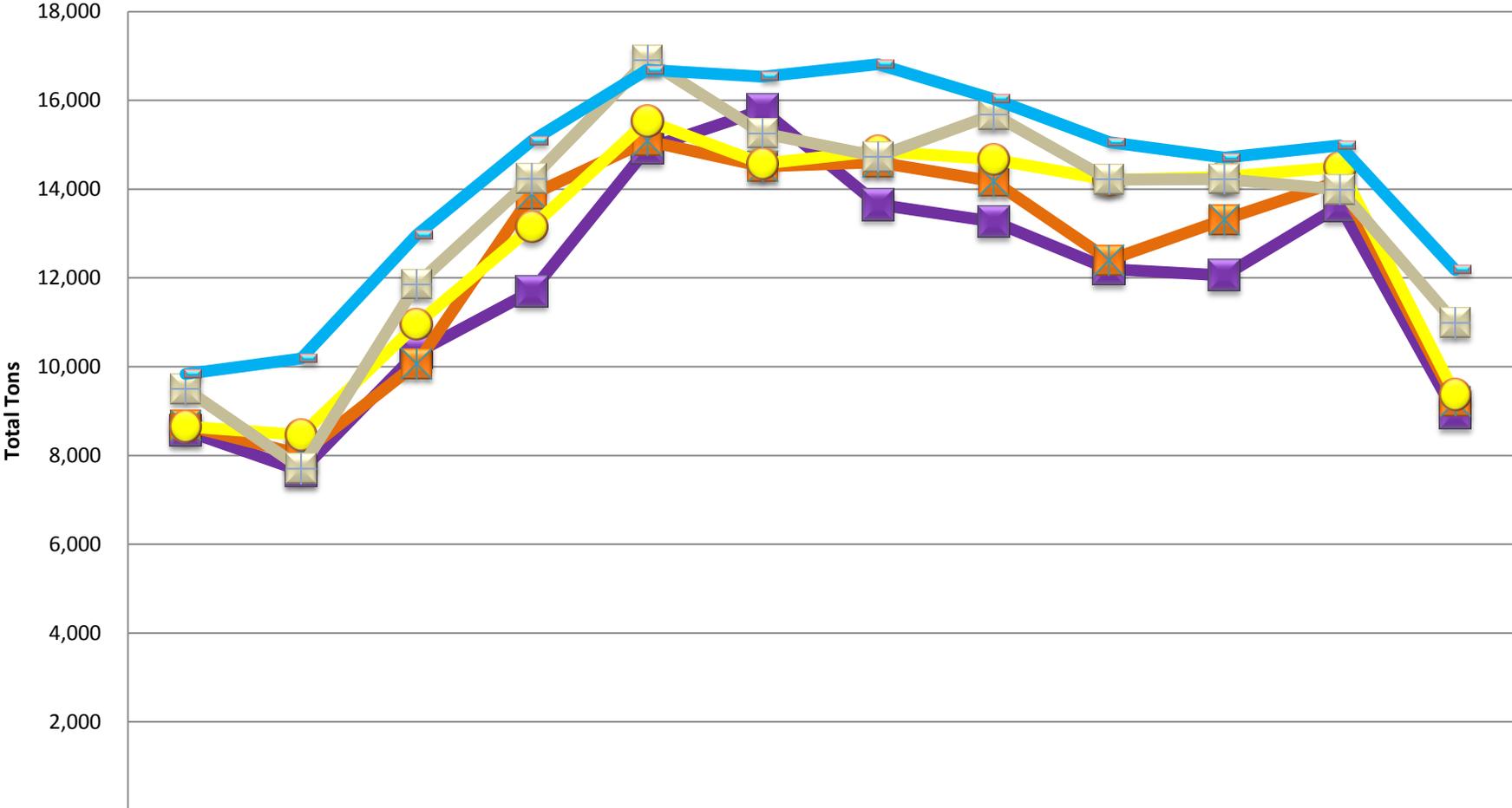
# Ramsey Cumulative Tons\*



|      | Jan   | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov     | Dec     |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 2011 | 5,756 | 11,070 | 18,180 | 26,284 | 36,468 | 47,277 | 56,493 | 65,653 | 73,833 | 81,920 | 91,996  | 98,074  |
| 2012 | 5,869 | 11,303 | 18,057 | 27,346 | 37,543 | 47,397 | 57,232 | 66,582 | 74,829 | 83,882 | 93,982  | 100,102 |
| 2013 | 5,766 | 11,388 | 18,637 | 26,975 | 37,297 | 46,903 | 56,793 | 66,610 | 75,958 | 85,417 | 95,666  | 101,797 |
| 2014 | 6,240 | 11,253 | 18,689 | 27,984 | 39,142 | 48,749 | 59,129 | 69,506 | 78,849 | 88,176 | 97,852  | 104,901 |
| 2015 | 6,336 | 13,151 | 21,466 | 31,032 | 41,870 | 52,946 | 64,218 | 74,944 | 84,708 | 94,282 | 104,181 | 112,160 |

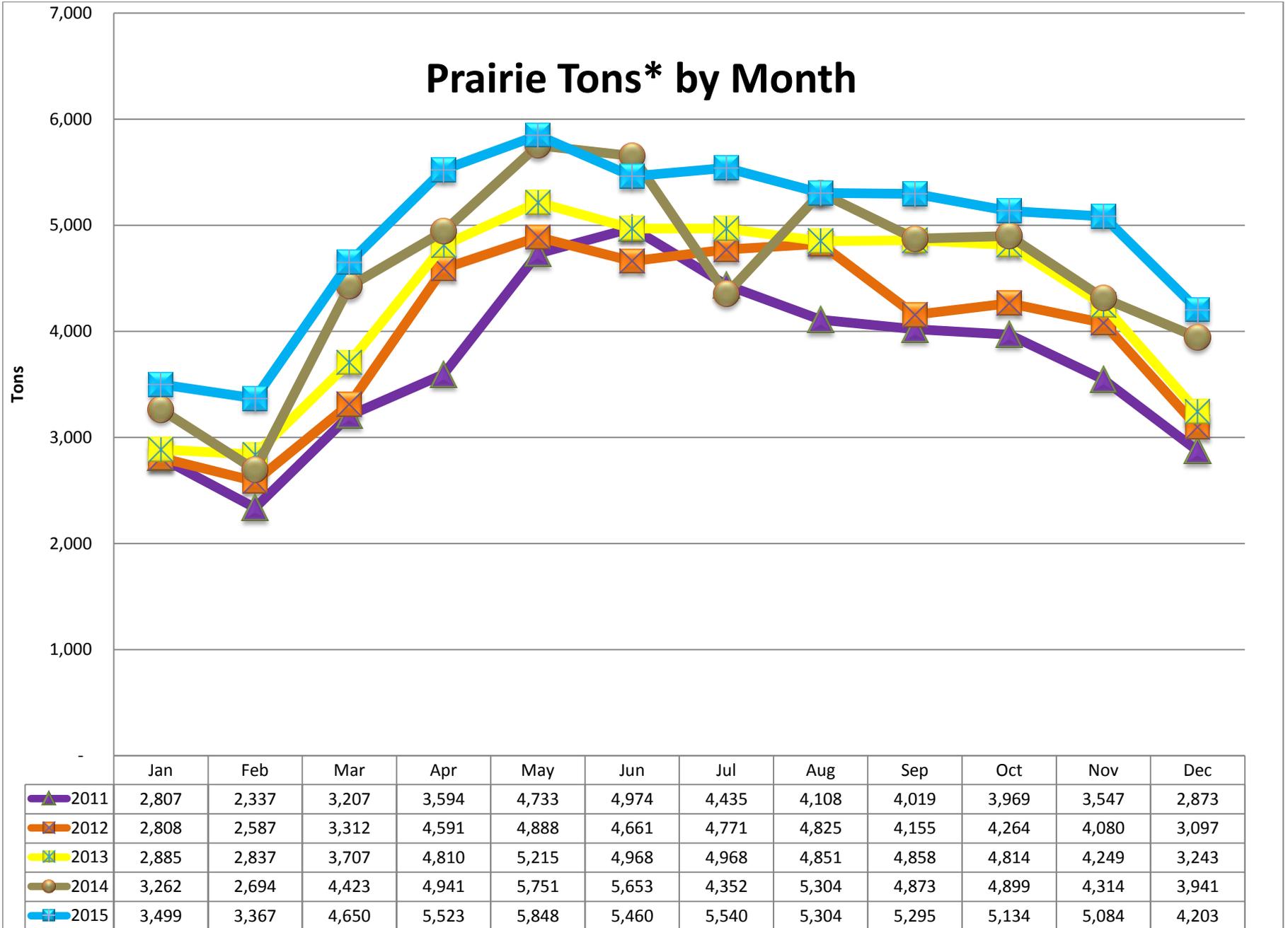
\*Tons In - Before Recycling

# Tons by Month - Transfer Stations



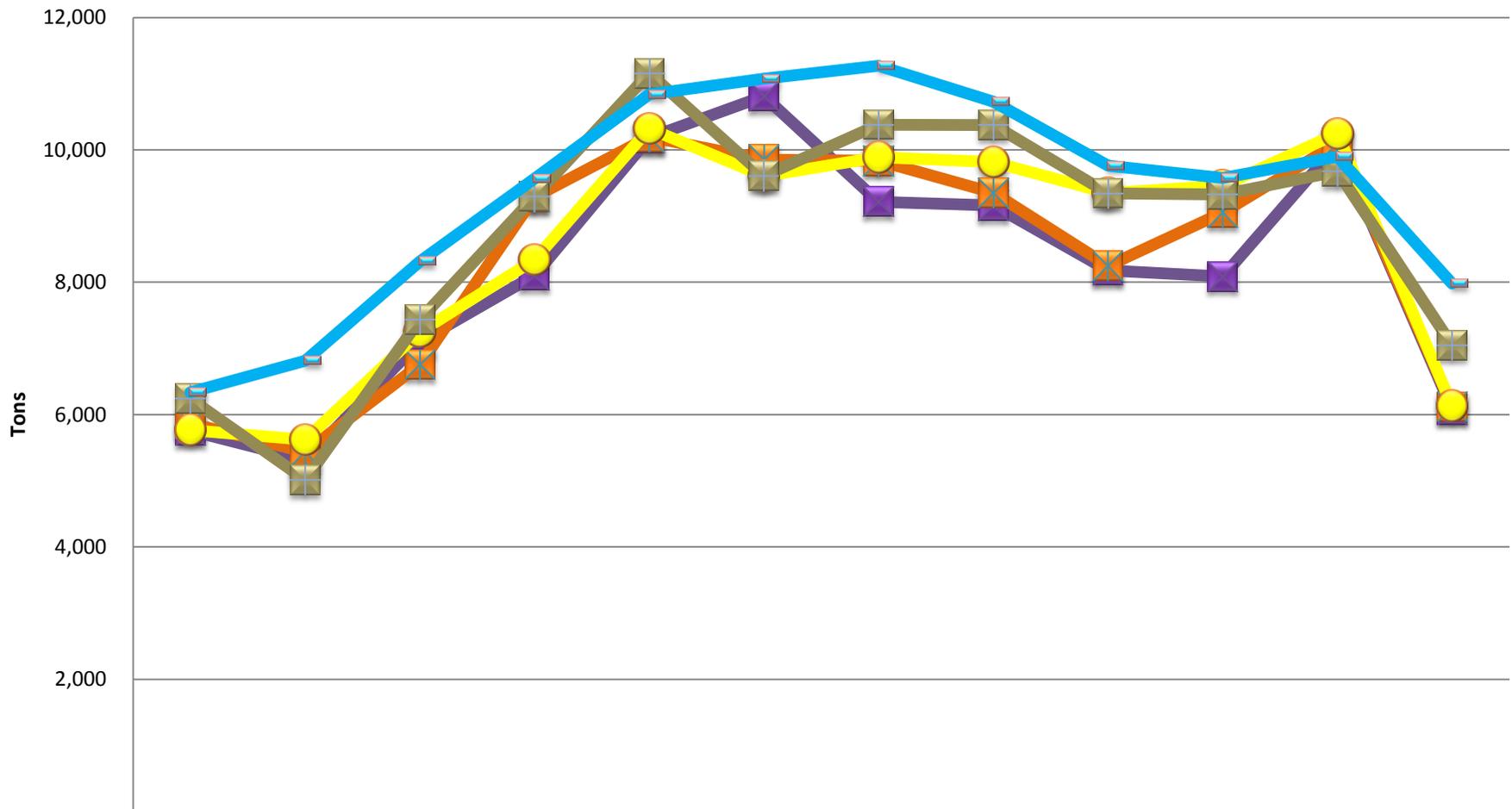
|      | Jan   | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2011 | 8,563 | 7,651  | 10,317 | 11,698 | 14,917 | 15,783 | 13,651 | 13,268 | 12,199 | 12,056 | 13,623 | 8,951  |
| 2012 | 8,677 | 8,021  | 10,066 | 13,880 | 15,085 | 14,515 | 14,606 | 14,175 | 12,402 | 13,317 | 14,180 | 9,217  |
| 2013 | 8,651 | 8,458  | 10,957 | 13,148 | 15,538 | 14,574 | 14,858 | 14,668 | 14,206 | 14,273 | 14,497 | 9,375  |
| 2014 | 9,502 | 7,707  | 11,859 | 14,236 | 16,909 | 15,260 | 14,733 | 15,681 | 14,216 | 14,226 | 13,990 | 10,989 |
| 2015 | 9,835 | 10,181 | 12,966 | 15,089 | 16,687 | 16,536 | 16,811 | 16,031 | 15,058 | 14,709 | 14,982 | 12,183 |

## Prairie Tons\* by Month



\*Tons In - Before Recycling

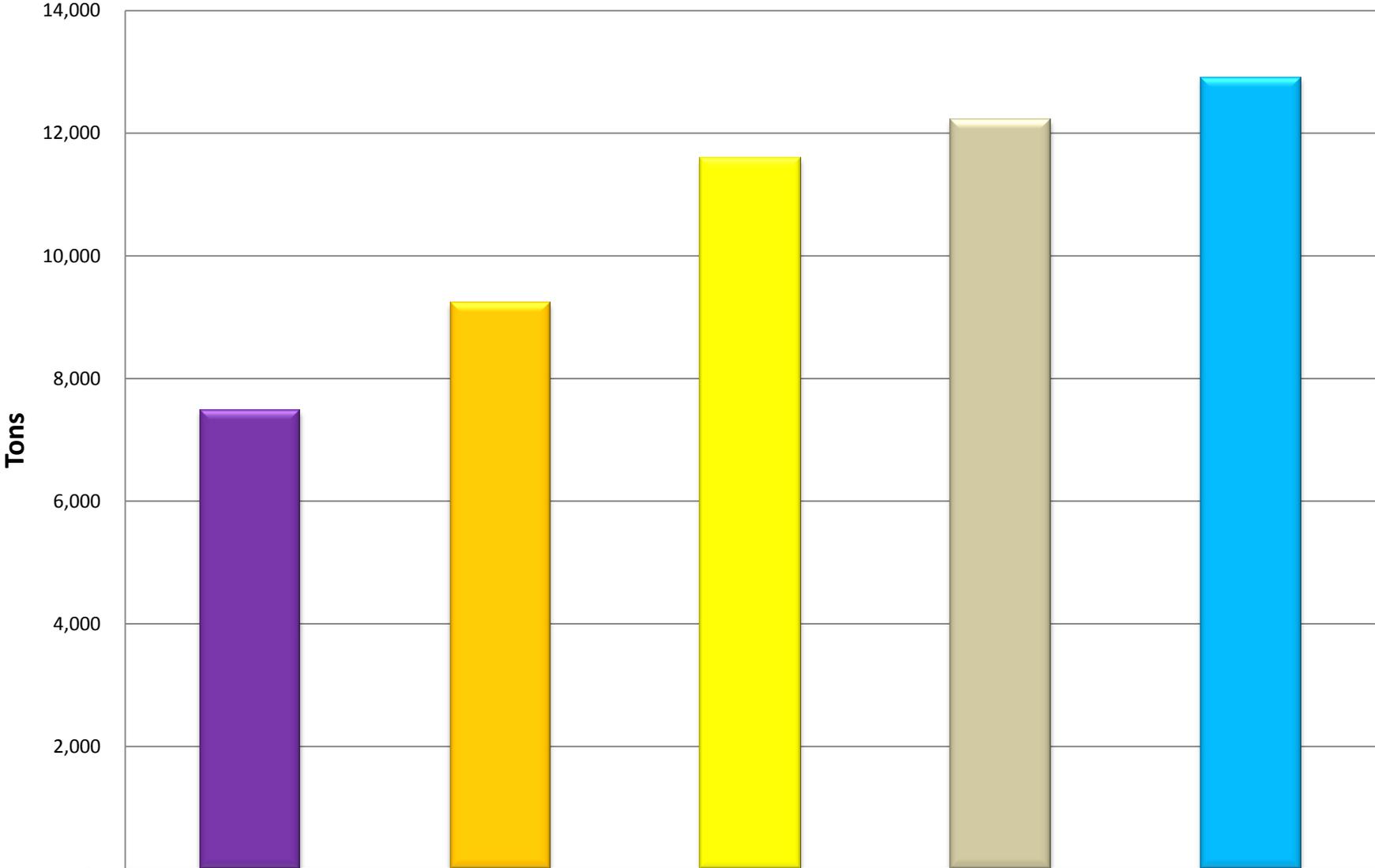
# Ramsey Tons\* by Month



|      | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep   | Oct   | Nov    | Dec   |
|------|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|-------|
| 2011 | 5,756 | 5,314 | 7,110 | 8,104 | 10,184 | 10,809 | 9,216  | 9,160  | 8,180 | 8,087 | 10,076 | 6,078 |
| 2012 | 5,869 | 5,434 | 6,754 | 9,289 | 10,197 | 9,854  | 9,835  | 9,350  | 8,247 | 9,053 | 10,100 | 6,120 |
| 2013 | 5,766 | 5,621 | 7,250 | 8,338 | 10,323 | 9,606  | 9,890  | 9,817  | 9,348 | 9,459 | 10,248 | 6,132 |
| 2014 | 6,240 | 5,013 | 7,436 | 9,295 | 11,158 | 9,607  | 10,381 | 10,377 | 9,343 | 9,327 | 9,676  | 7,048 |
| 2015 | 6,336 | 6,815 | 8,315 | 9,566 | 10,838 | 11,076 | 11,272 | 10,726 | 9,763 | 9,574 | 9,899  | 7,980 |

\*Tons In - Before Recycling

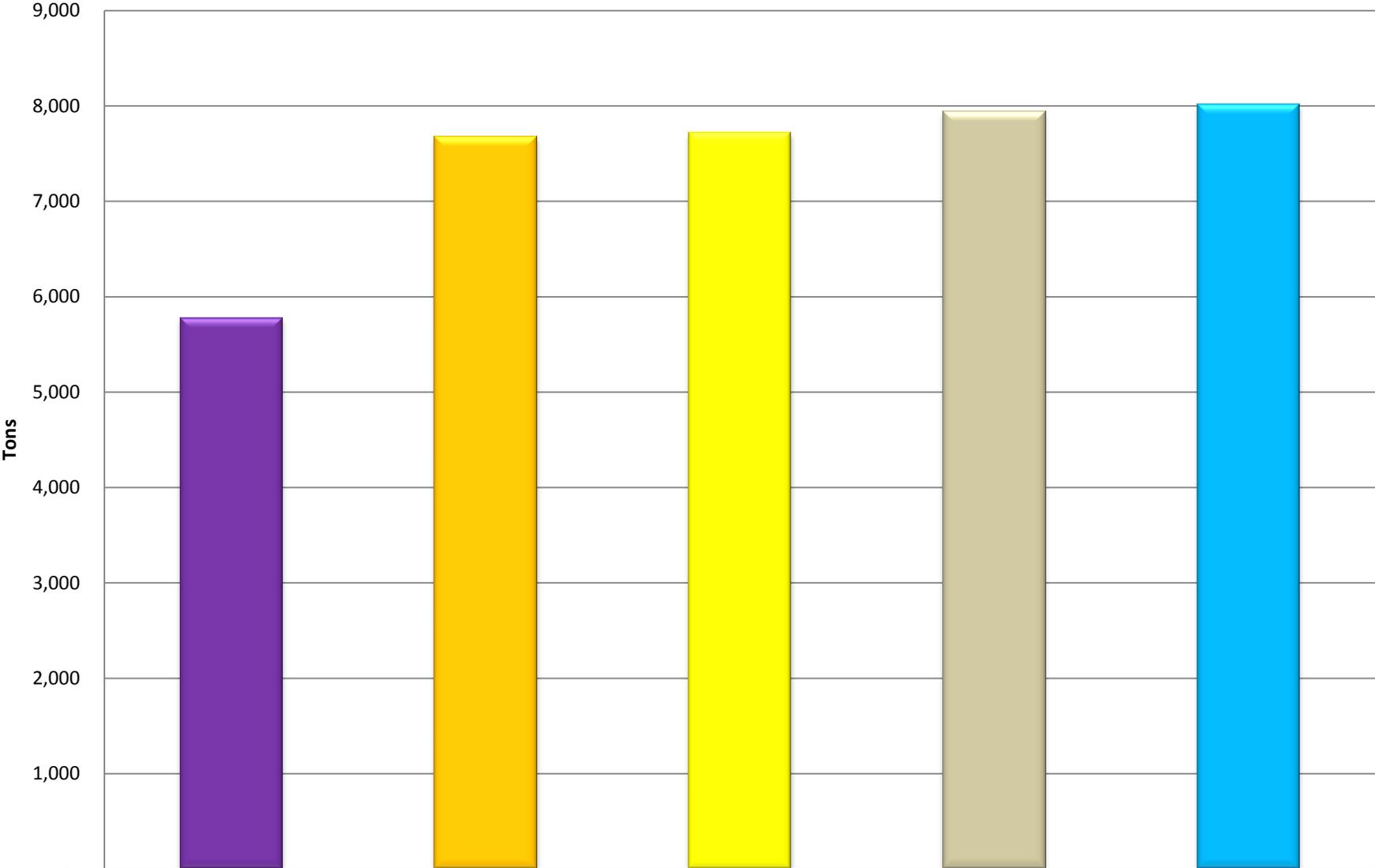
# Demolition Waste\*



|      |       |       |        |        |        |
|------|-------|-------|--------|--------|--------|
|      | 2011  | 2012  | 2013   | 2014   | 2015   |
| Tons | 7,479 | 9,239 | 11,594 | 12,217 | 12,908 |

\*Includes Construction/Demolition, Mixed Demolition, and Roofing

# Yard Debris



■ Tons

2011

2012

2013

2014

2015

5,778

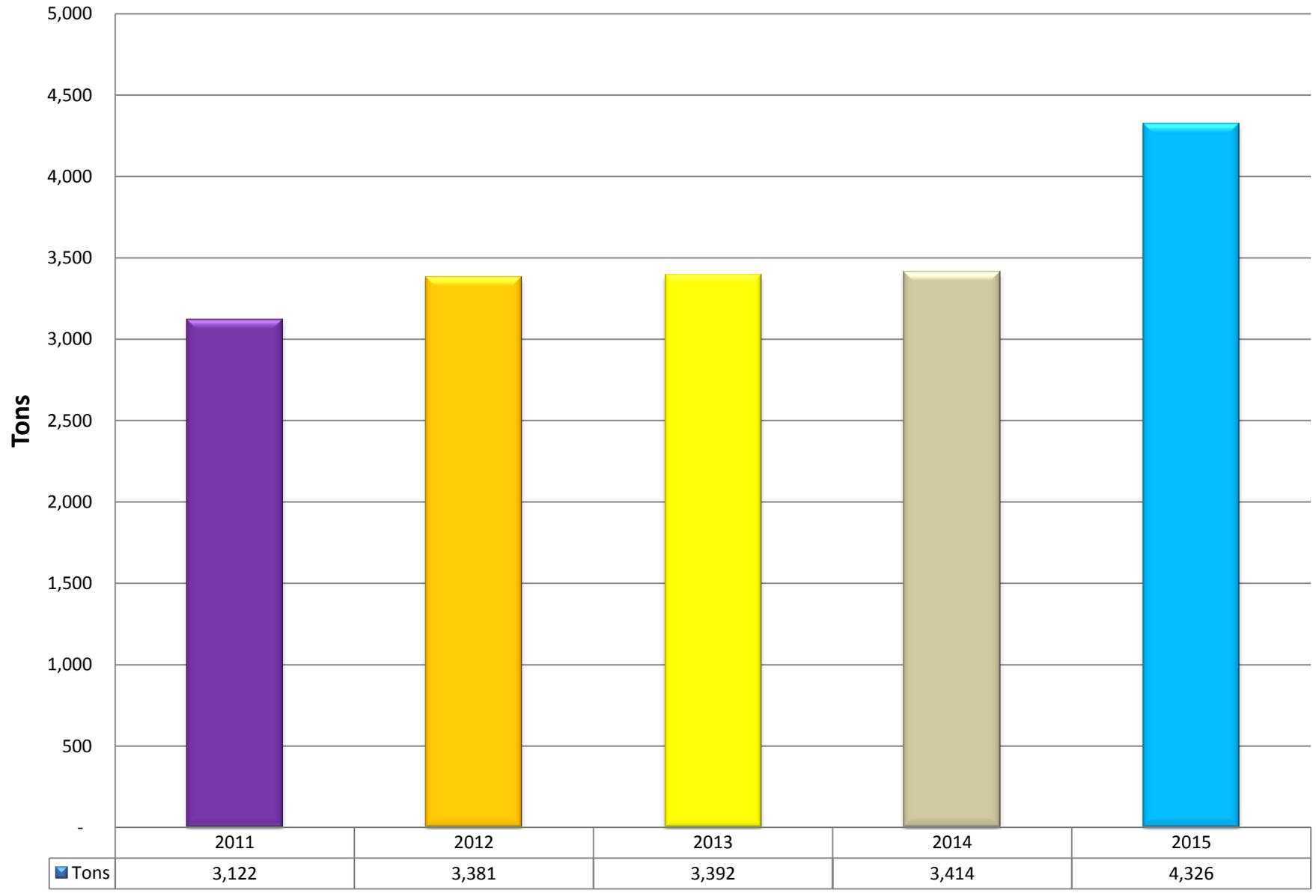
7,673

7,718

7,940

8,016

# Inert Material\*



\*Inert Material includes Inert Material and Cover Material

## RECYCLING 2015

Kootenai County encourages waste diversion, reduction, reuse and recycling before material becomes a part of the County solid waste system but does not mandate or control what is collected outside of County operated sites.

A wide variety of reuse, reduction, and recycling programs are in place throughout the area operated by business or other entity independent of County programs. Material collected and recycled include, but are not limited to, single-stream material; cardboard, newspaper, plastics and other segregated recyclables; textiles; automotive batteries; scrap metal; used oil; electronics; wood waste and other material.

The County offers recycling drop-off stations at the Ramsey and Prairie Transfer sites and some rural residential solid waste sites. These facilities are owned and operated as part of the County system and self-haulers (generators) deliver the segregated material directly to the County drop-off stations. Materials accepted at the Ramsey and Prairie Transfer Stations include:

|                      |               |             |               |
|----------------------|---------------|-------------|---------------|
| Cardboard            | Newspaper     | Mixed Paper | Mixed Plastic |
| Plastic Bags         | Aluminum Cans | Tin Cans    | Scrap Metal   |
| Automotive Batteries | Tires         | Used Oil    | Textiles      |

The program is modified dependent on current markets, challenges with marketing material, and problems with contamination of the material when disposers throw prohibited items in the bins.

During 2015, there was a dramatic drop in commodity prices. Recycling is influenced by domestic and international markets for recycled materials and the economics of recycling has been impacted by many factors including the slowing economic growth in other countries reducing demand for used paper and other commodities; sharp decline in used plastics market prices attributed in part to lower crude oil prices, which pushed down cost of new plastic production since it is less expensive for manufacturers to work with virgin material instead of recycled material.

In response to this decline, receiving and processing facilities sharply reduced and/or eliminated payment for recyclables. Additionally, the primary receiving facility commenced charging fees for recyclables in mid-March. Payment or charging for recyclables is based on commodity prices, processing costs to sort material, availability of markets, as well as other factors.

Private haulers and cities have also been impacted by processing facility fees. The haulers collect single-stream mixed recycling which requires extensive sorting and is more costly to manage than the segregated material that is collected at County sites.

Recycling can provide an effective means of reducing landfill space. However, recycling is not a free service as it takes money to collect, sort, transport, and manage

the material and these costs are volatile and dependent on markets to receive, and pay, for the material. The programs must be economically and environmentally sustainable.

The Solid Waste Department system is supported by solid waste fees charged to property owners and fees at transfer sites. Waste and recycling programs offered by private businesses are not a County function; however, the County recognizes savings in landfill space and is developing a rebate program to provide some financial support to encourage continued collection of the single-stream residential material.

The wood processing and recycling contract realized a minor price decrease per ton. However, this savings has been offset by an increase in the amount of wood requiring processing due to the November 2015 windstorm that resulted in a substantial amount of wood waste requiring management.

The bright side of recycling was the successful marketing of electronics with an overall drop in cost to transport the material to market.

The table below provides a breakout of recycling efforts for Kootenai County and local haulers. Further details are provided in this section.

|               | <b>WMI<br/>Curbside*</b> | <b>CG<br/>Curbside^</b> | <b>Rural Sites<sup>+</sup></b> | <b>Solid Waste<sup>~</sup></b> |
|---------------|--------------------------|-------------------------|--------------------------------|--------------------------------|
| <b>2011</b>   | 2,046                    | 681                     | 753                            | 15,086                         |
| <b>2012</b>   | 2,161                    | 1,751                   | 654                            | 15,066                         |
| <b>2013</b>   | 2,341                    | 1,077                   | 542                            | 14,862                         |
| <b>2014</b>   | 2,286                    | 2,007                   | 472                            | 15,110                         |
| <b>2015</b>   | 2,320                    | 1,926                   | 442                            | 16,524                         |
| <b>Totals</b> | 11,154                   | 7,442                   | 2,863                          | 76,648                         |

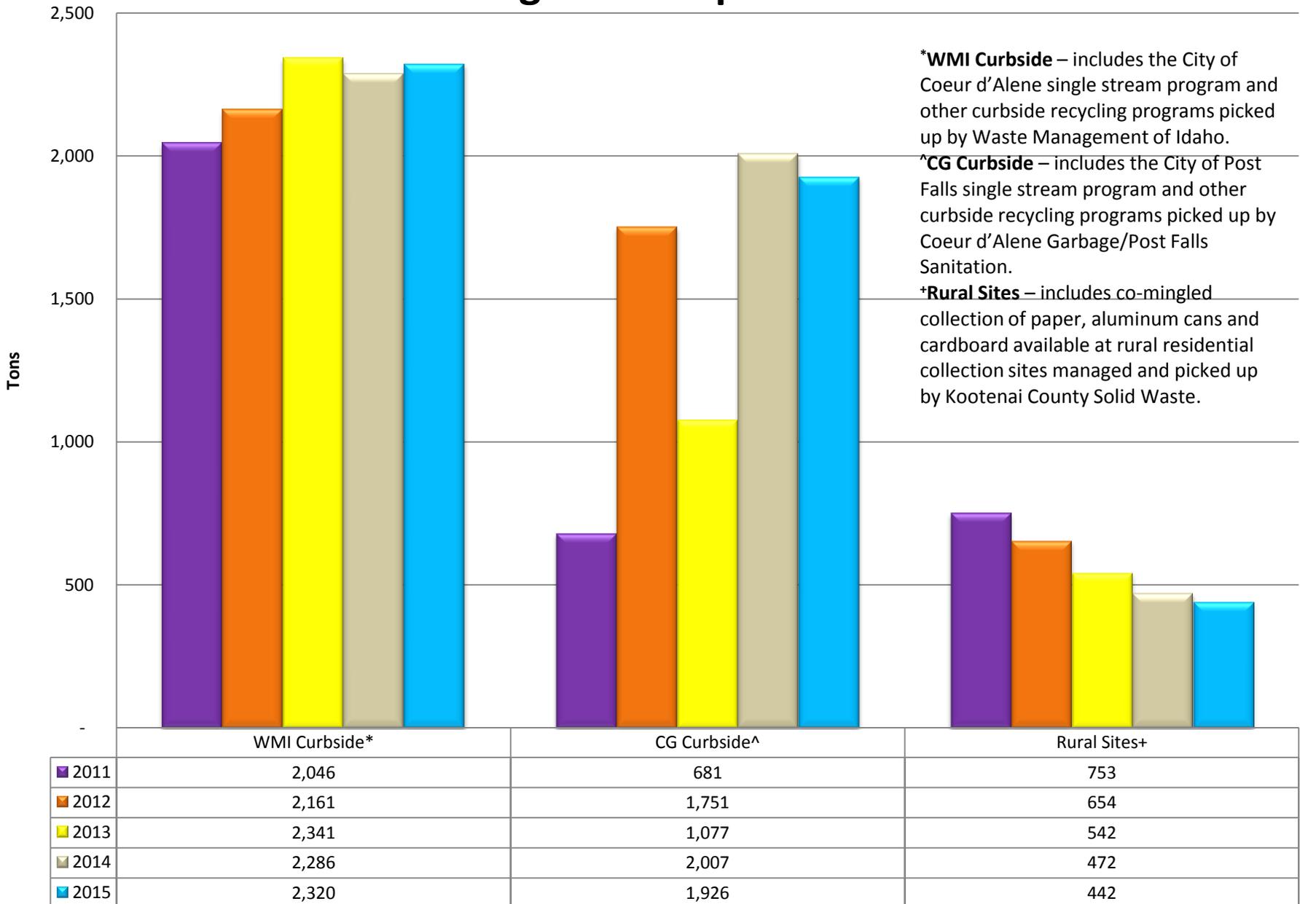
\***WMI Curbside** – includes the City of Coeur d’Alene single stream program and other curbside recycling programs picked up by Waste Management of Idaho.

^**CG Curbside** – includes the City of Post Falls single stream program and other curbside recycling programs picked up by Coeur d’Alene Garbage/Post Falls Sanitation.

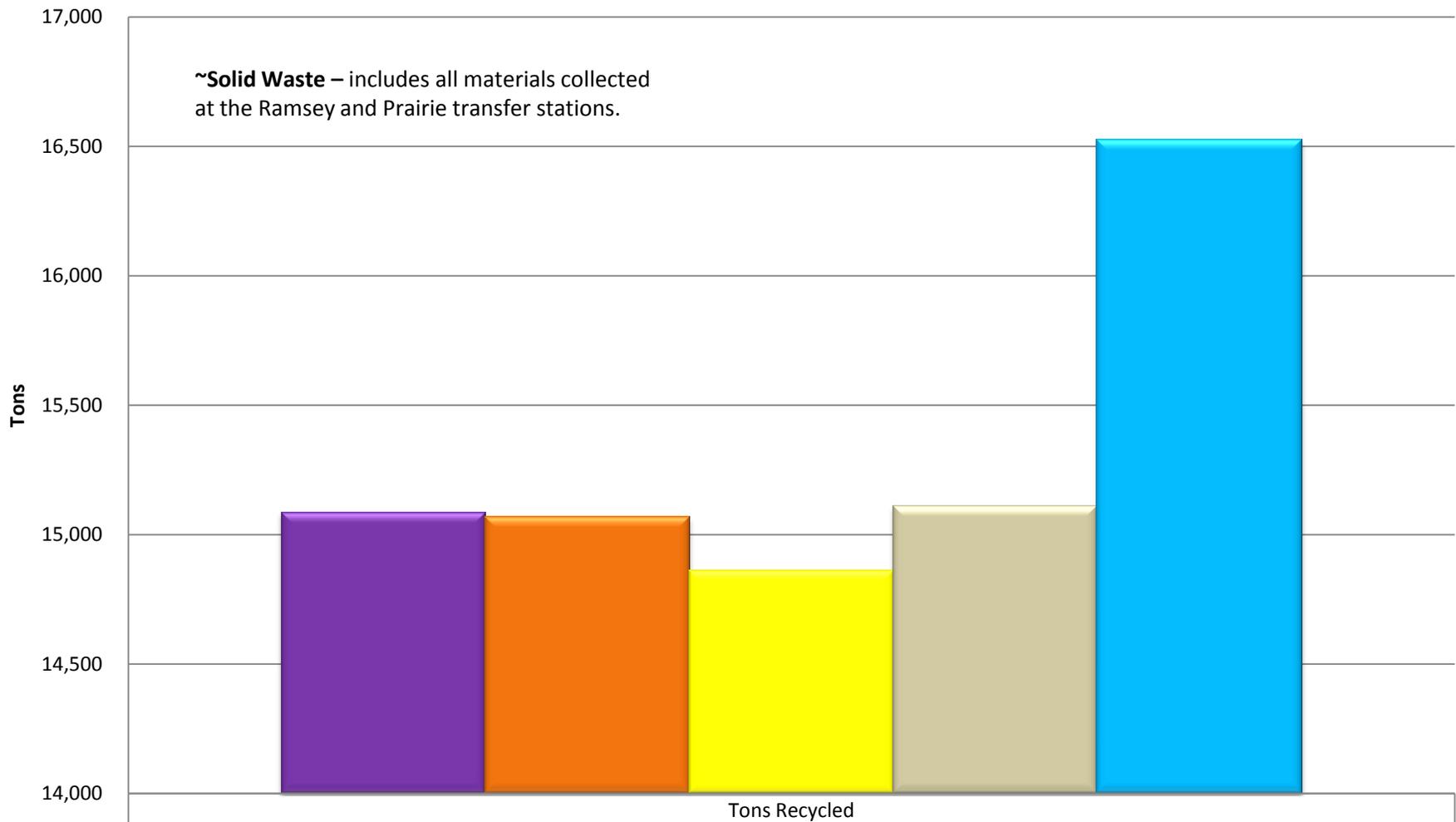
+**Rural Sites** – includes co-mingled collection of paper, aluminum cans and cardboard available at rural residential collection sites managed and picked up by Kootenai County Solid Waste.

~**Solid Waste** – includes all materials collected at the Ramsey and Prairie transfer stations.

# Kootenai County Public Recycling Program Comparison



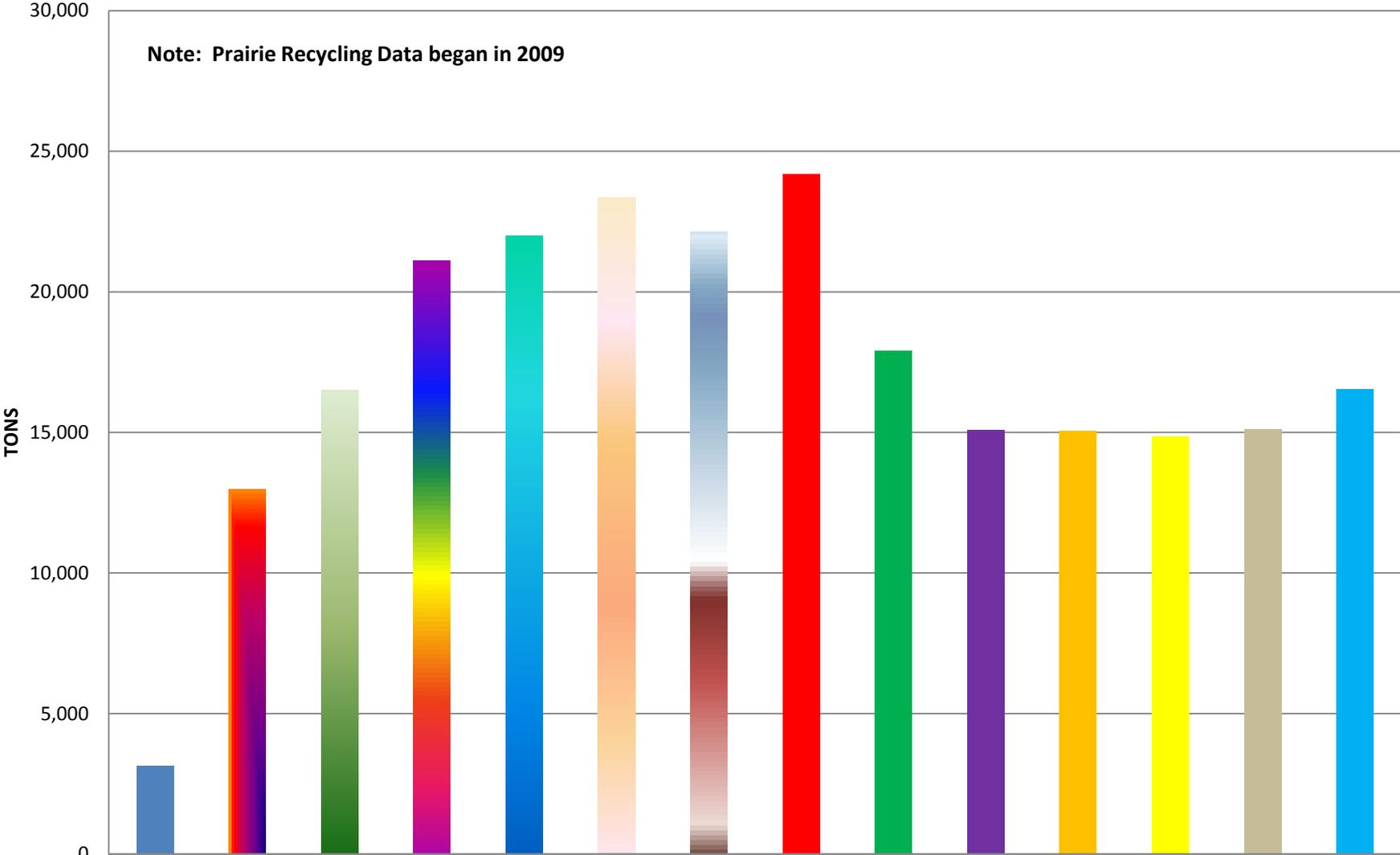
# Solid Waste Transfer Station Recycling



|      |        |
|------|--------|
| 2011 | 15,086 |
| 2012 | 15,066 |
| 2013 | 14,862 |
| 2014 | 15,110 |
| 2015 | 16,524 |

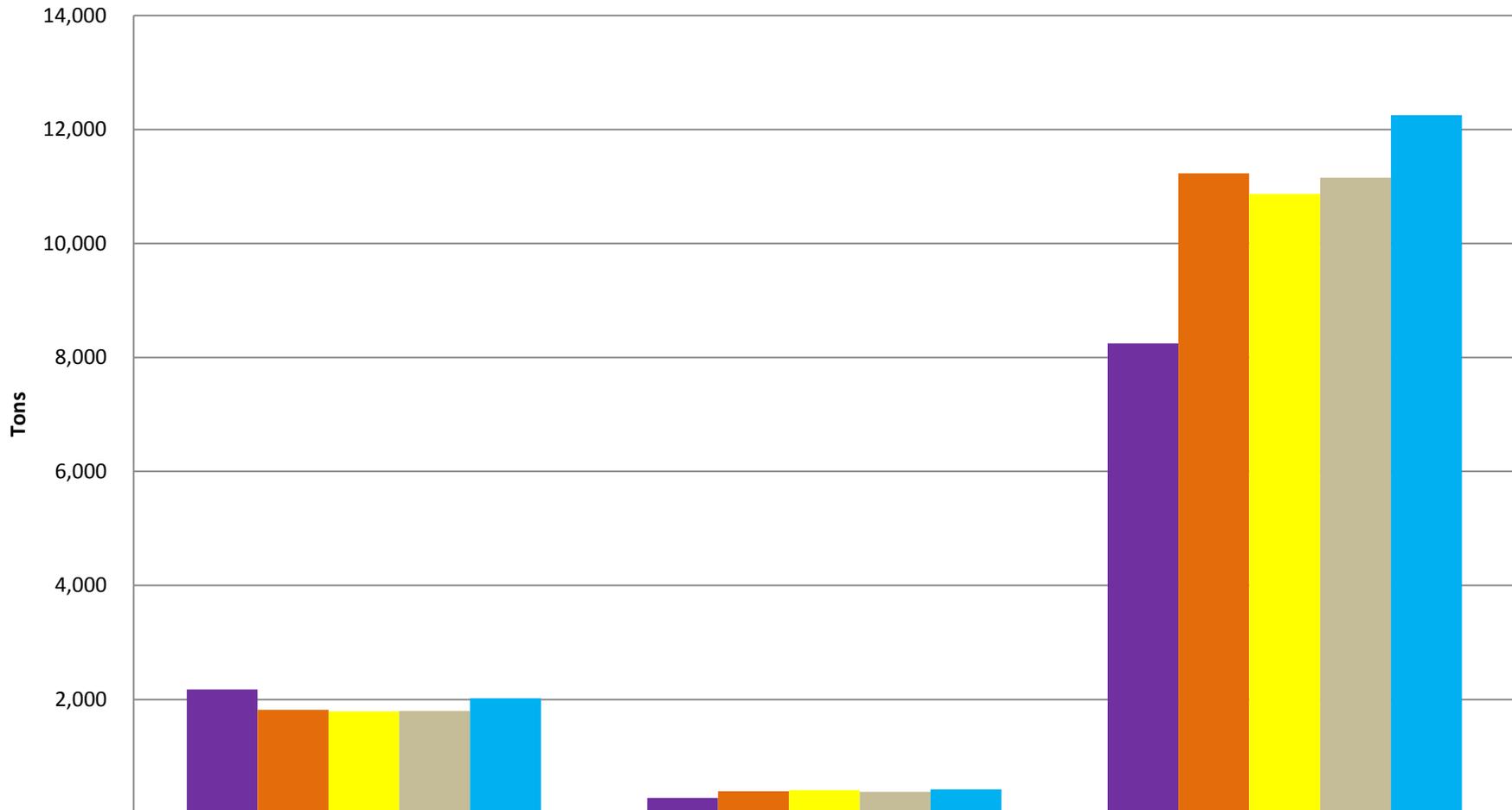
# Transfer Station Recycling Annual Comparison

**Note: Prairie Recycling Data began in 2009**



|        |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ■ tons | 3,139 | 12,970 | 16,493 | 21,104 | 21,982 | 23,360 | 22,128 | 24,177 | 17,901 | 15,086 | 15,066 | 14,862 | 15,110 | 16,524 |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

# Metals, Tires & Wood Recycling



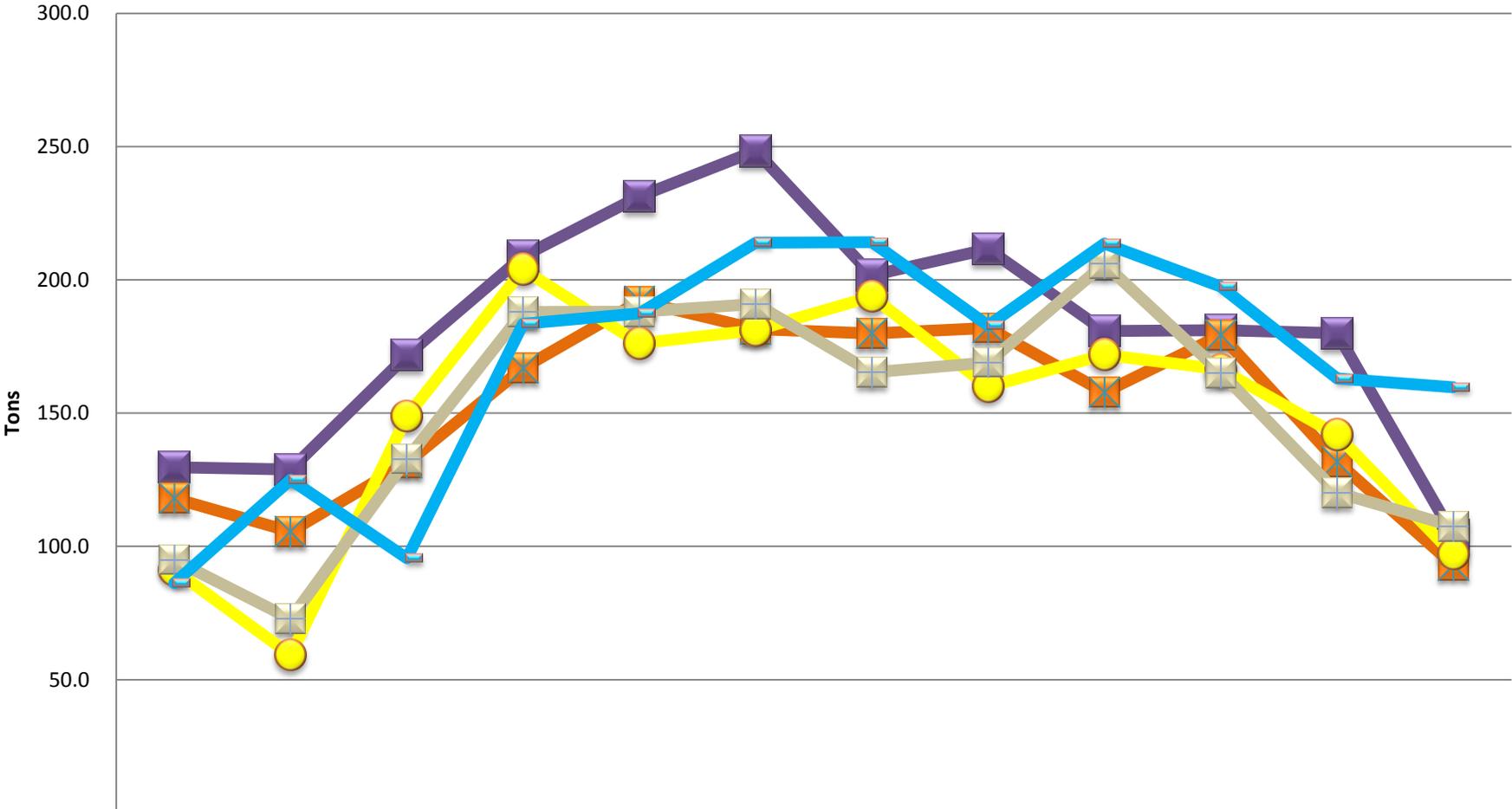
|      | Loose Metals* | Tires^ | Wood+  |
|------|---------------|--------|--------|
| 2011 | 2,178         | 272    | 8,248  |
| 2012 | 1,819         | 391    | 11,233 |
| 2013 | 1,791         | 408    | 10,870 |
| 2014 | 1,801         | 381    | 11,156 |
| 2015 | 2,023         | 423    | 12,251 |

\* Loose Metals - Prairie 738 tons and Ramsey 1,285 tons

^ Tires - Prairie 155 tons and Ramsey 268 tons

+ Wood - Prairie 4,186 tons and Ramsey 8,065

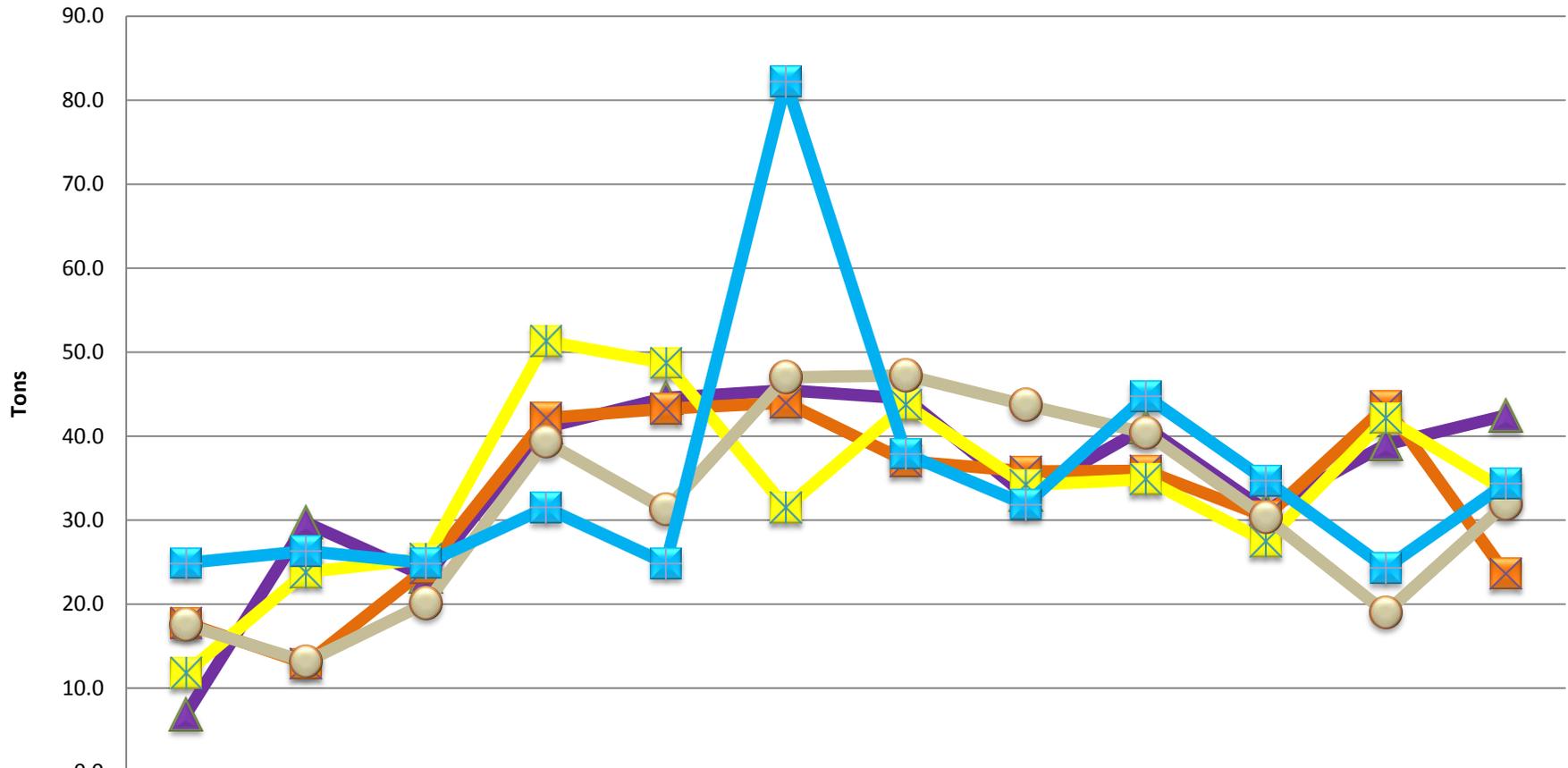
# Loose Metals Recycling - Monthly



|      | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2011 | 129.7 | 128.8 | 171.8 | 208.9 | 231.3 | 248.4 | 201.8 | 211.6 | 180.8 | 181.2 | 179.9 | 104.1 |
| 2012 | 118.0 | 105.6 | 131.3 | 166.9 | 192.0 | 181.5 | 179.9 | 182.0 | 157.8 | 179.3 | 131.7 | 93.0  |
| 2013 | 91.1  | 59.3  | 148.8 | 203.9 | 176.2 | 181.1 | 193.7 | 159.9 | 171.9 | 166.4 | 141.8 | 97.0  |
| 2014 | 94.9  | 72.8  | 132.8 | 187.9 | 188.0 | 191.0 | 165.3 | 169.0 | 206.0 | 165.2 | 120.2 | 107.5 |
| 2015 | 86.2  | 125.0 | 95.6  | 183.5 | 187.4 | 213.9 | 214.2 | 182.9 | 213.6 | 197.5 | 163.0 | 159.7 |

Prairie total 738 tons  
 Ramsey total 1,285 tons

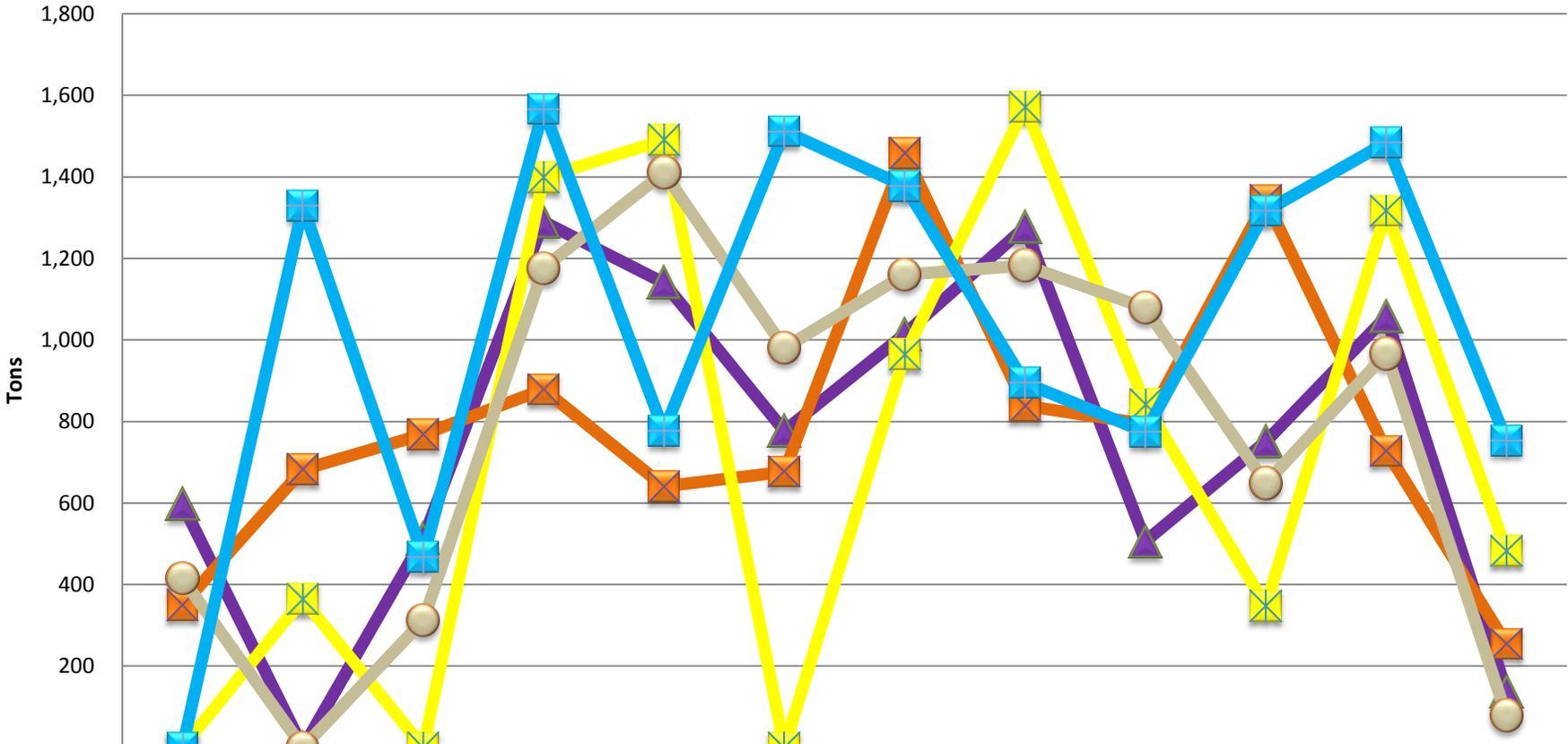
# Tire Recycling - Totals 2015 (423 tons)



|        | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov  | Dec  |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|
| ▲ 2011 | 6.9  | 29.7 | 23.3 | 41.1 | 44.6 | 45.5 | 44.5 | 33.0 | 41.1 | 31.2 | 39.0 | 42.5 |
| ■ 2012 | 17.7 | 12.9 | 24.2 | 42.2 | 43.3 | 44.0 | 37.0 | 35.8 | 35.9 | 30.4 | 43.6 | 23.6 |
| ⊠ 2013 | 11.8 | 23.8 | 25.4 | 51.3 | 48.7 | 31.5 | 43.7 | 34.2 | 34.9 | 27.5 | 42.1 | 33.6 |
| ● 2014 | 17.5 | 13.1 | 20.1 | 39.3 | 31.2 | 47.0 | 47.2 | 43.7 | 40.4 | 30.3 | 19.0 | 31.9 |
| ■ 2015 | 24.9 | 26.3 | 24.9 | 31.5 | 24.9 | 82.2 | 37.9 | 31.9 | 44.7 | 34.7 | 24.3 | 34.4 |

Prairie 155 tons  
Ramsey 268 tons

# Wood Recycling - Totals 2015\* (12,251 tons)

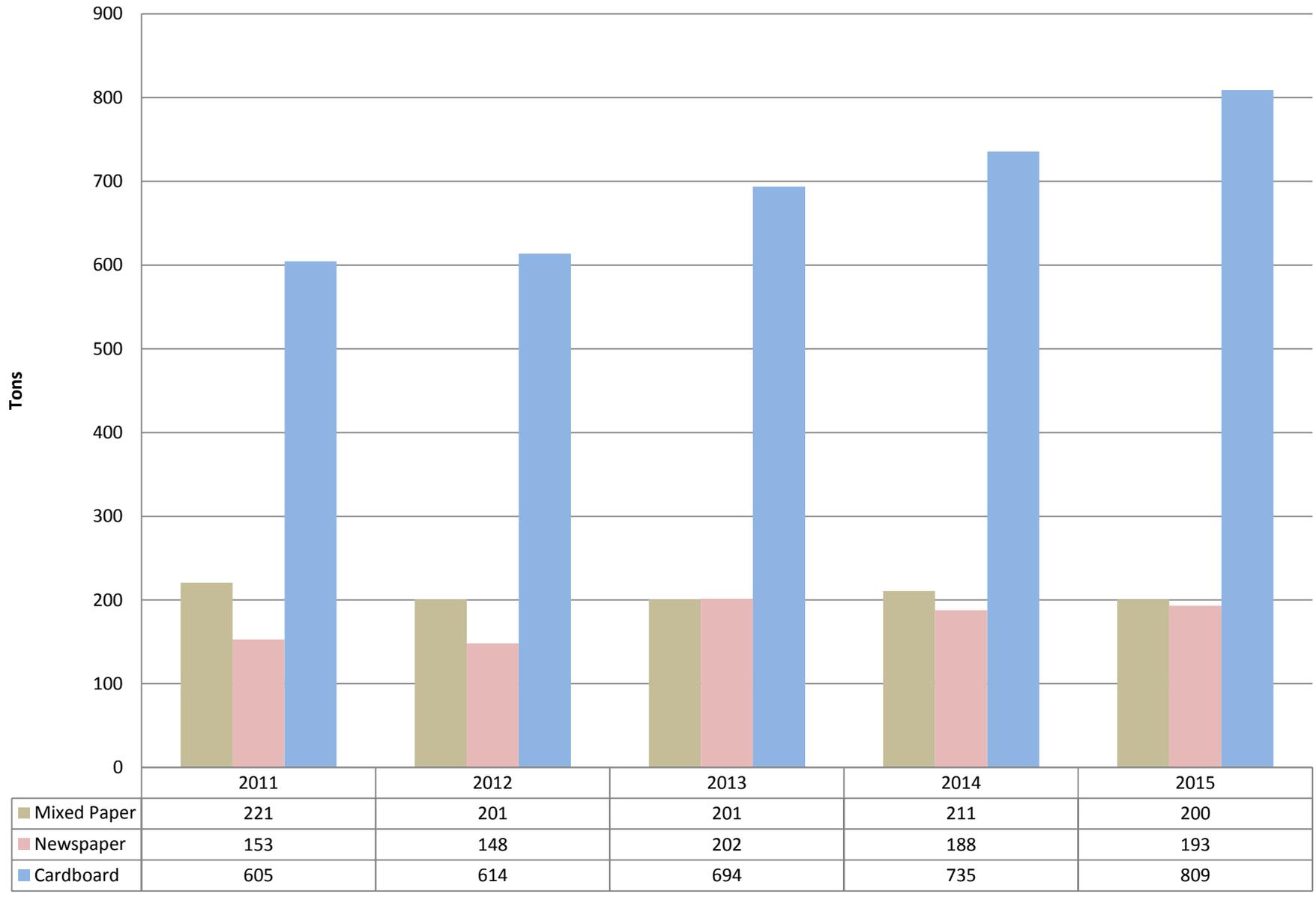


|        | Jan | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec |
|--------|-----|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| ▲ 2011 | 597 | -     | 513 | 1,290 | 1,140 | 777   | 1,014 | 1,277 | 506   | 751   | 1,057 | 138 |
| ■ 2012 | 350 | 682   | 768 | 878   | 641   | 677   | 1,458 | 838   | 794   | 1,343 | 728   | 254 |
| ■ 2013 | -   | 364   | -   | 1,399 | 1,491 | -     | 964   | 1,571 | 841   | 348   | 1,317 | 483 |
| ● 2014 | 415 | -     | 312 | 1,176 | 1,411 | 980   | 1,160 | 1,183 | 1,078 | 649   | 967   | 79  |
| ■ 2015 | -   | 1,329 | 467 | 1,567 | 776   | 1,512 | 1,377 | 895   | 774   | 1,317 | 1,484 | 754 |

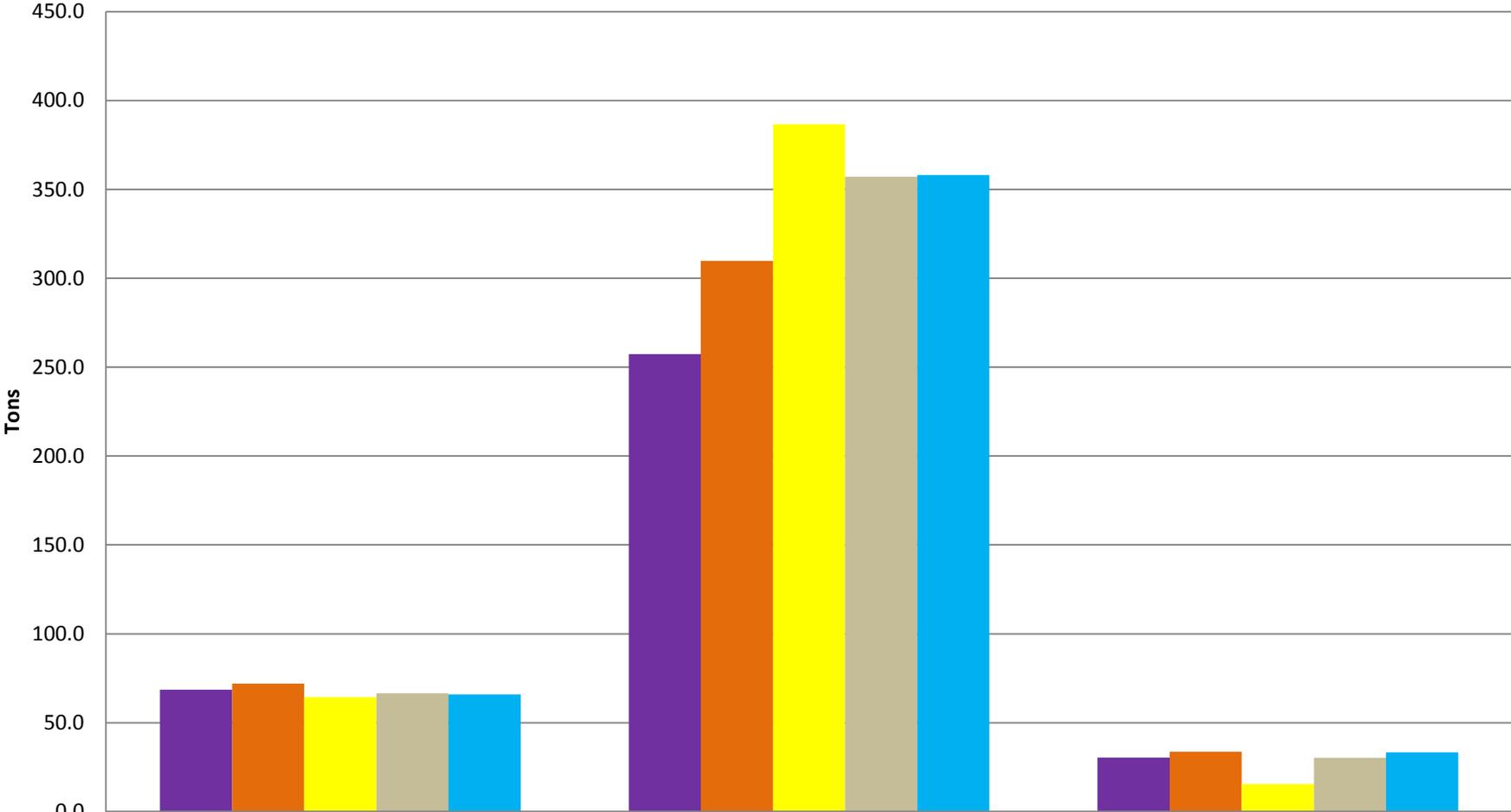
\* 2015 figures reflect the City of Coeur d'Alene no longer bringing the leaves through the transfer station for processing.

Prairie 4,186 tons  
Ramsey 8,065 tons

# Paper Recycling - Totals



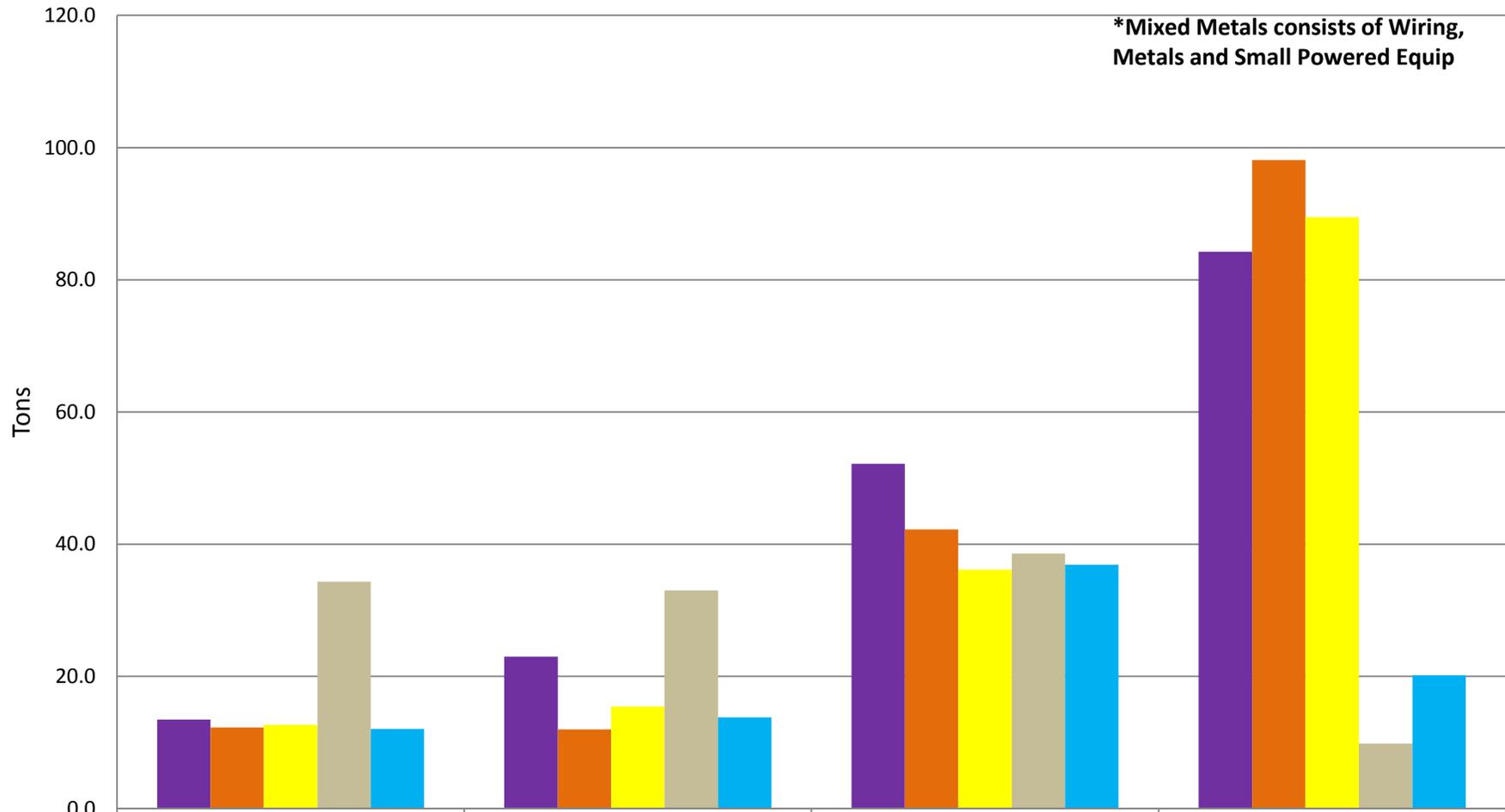
# Misc Recycling Totals



|        | Mixed Plastics | Electronics | Textiles |
|--------|----------------|-------------|----------|
| ■ 2011 | 68.6           | 257.3       | 30.5     |
| ■ 2012 | 72.0           | 309.8       | 33.7     |
| ■ 2013 | 64.3           | 386.6       | 15.6     |
| ■ 2014 | 66.6           | 357.1       | 30.2     |
| ■ 2015 | 66.0           | 358.0       | 33.3     |

# Mixed Metals Recycling Totals

\*Mixed Metals consists of Wiring, Metals and Small Powered Equip



|        | Tin  | Aluminum | Batteries | Mixed Metals* |
|--------|------|----------|-----------|---------------|
| ■ 2011 | 13.5 | 23.0     | 52.2      | 84.2          |
| ■ 2012 | 12.3 | 12.0     | 42.2      | 98.1          |
| ■ 2013 | 12.7 | 15.5     | 36.2      | 89.5          |
| ■ 2014 | 34.4 | 33.0     | 38.6      | 9.8           |
| ■ 2015 | 12.1 | 13.8     | 36.9      | 20.2          |

## **RURAL RESIDENTIAL COLLECTION SYSTEM 2015**

There are 13 rural residential collection sites spread throughout the County, of which the County owns the property for four. There are two staffed sites in the northern portion of the County and 11 collection sites on the east and west side of Coeur d' Alene Lake, and in the southern portion of the County. The challenge is to keep this waste stream confined to residential household waste and over the years the Department has implemented changes to meet this challenge by staffing sites and increasing public awareness as to what can and cannot be accepted at these sites. Another challenge is to restrict out of county/out of state use at these facilities and ensure they are used only by the citizens who pay for the system.

A total of 13,218 tons of garbage was collected from the rural sites in 2015. This is a slight decrease of 86 tons from the 2014 totals.

### **NORTH RURAL SYSTEM**

There are two staffed rural sites (Athol and Chilco) in the northern portion of Kootenai County. The staffed sites are open the same hours and days as the transfer stations. The Department added taller privacy fence to the Chilco site in 2015 to provide a visual screen from adjacent property.

The staffed sites assisted a total of 187,592 customers in 2015. This is a decrease of 2,949 customers served in 2014. There was a total of 7,561 tons of waste collected at the north rural sites in 2015, which is 204 tons less than 2014.



### **SOUTH RURAL SYSTEM**

The south rural routes have two subsets, Harrison and Worley. There was 5,743 tons of garbage collected at these 11 sites which is a slight increase (22 tons) from 2014.

The Harrison Route is on the eastern side of Coeur d' Alene Lake and bounded by Shoshone County to the east and Benewah County to the south. There are eight collection sites on this route. The Worley Route has three collection sites. This route is on the western side of Coeur d' Alene Lake, south of Coeur d' Alene and bounded on the south by Benewah County and Washington on the west.

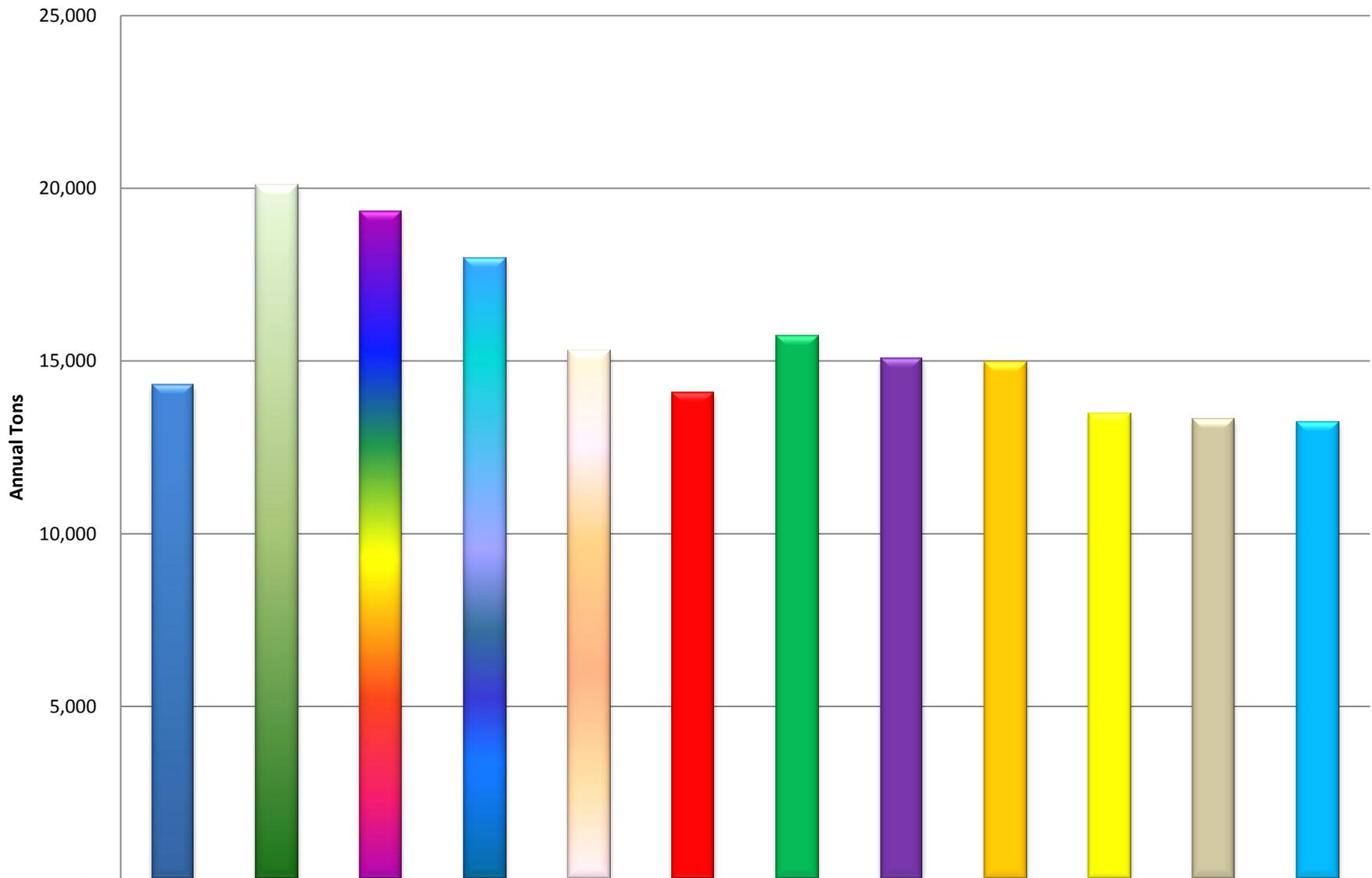
The Department has been actively working to acquire permanent County-owned parcels to develop (relocate) collection sites in the Rose Lake area as well as Wolf Lodge. The Wolf Lodge location is most critical as the State of Idaho will be replacing the bridge over I-90 during the summer of 2016 which will impact the current containers located in State right-of-way adjacent to the bridge.



The Department, along with the contracted hauling company, spends a significant amount of time and effort to maintaining the rural residential collection sites. Several times a week the Department removes improperly disposed items from these sites. These sites are for residential waste only, large bulky items such as appliances, furniture, tires, remodel waste and yard debris must be taken to a transfer station for proper disposal. The photos show improper disposal that required clean up by the Department.



## Rural System Tonnage Comparison



■ Tons

1993

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

14,314

20,085

19,320

17,985

15,300

14,082

15,740

15,083

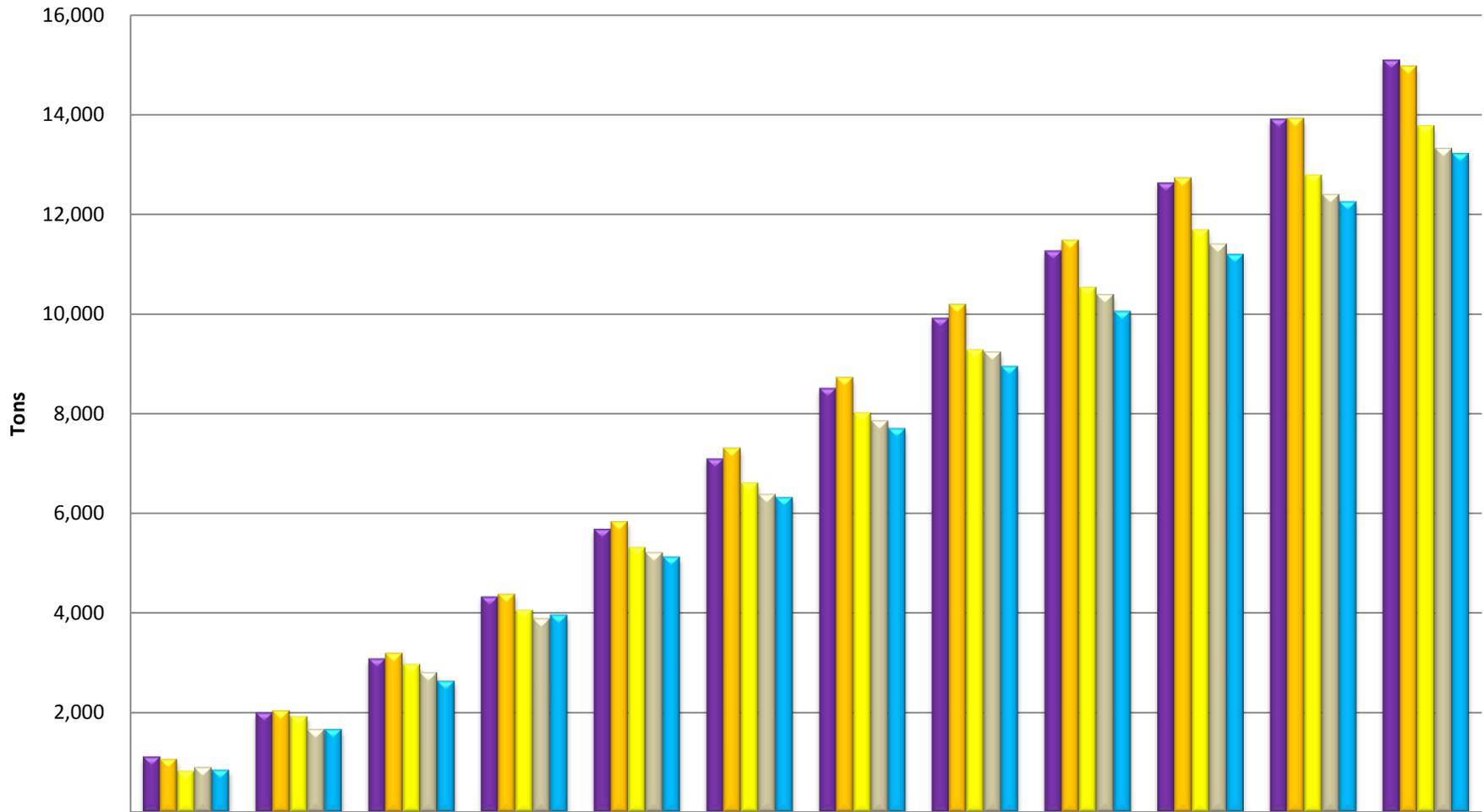
14,957

13,486

13,304

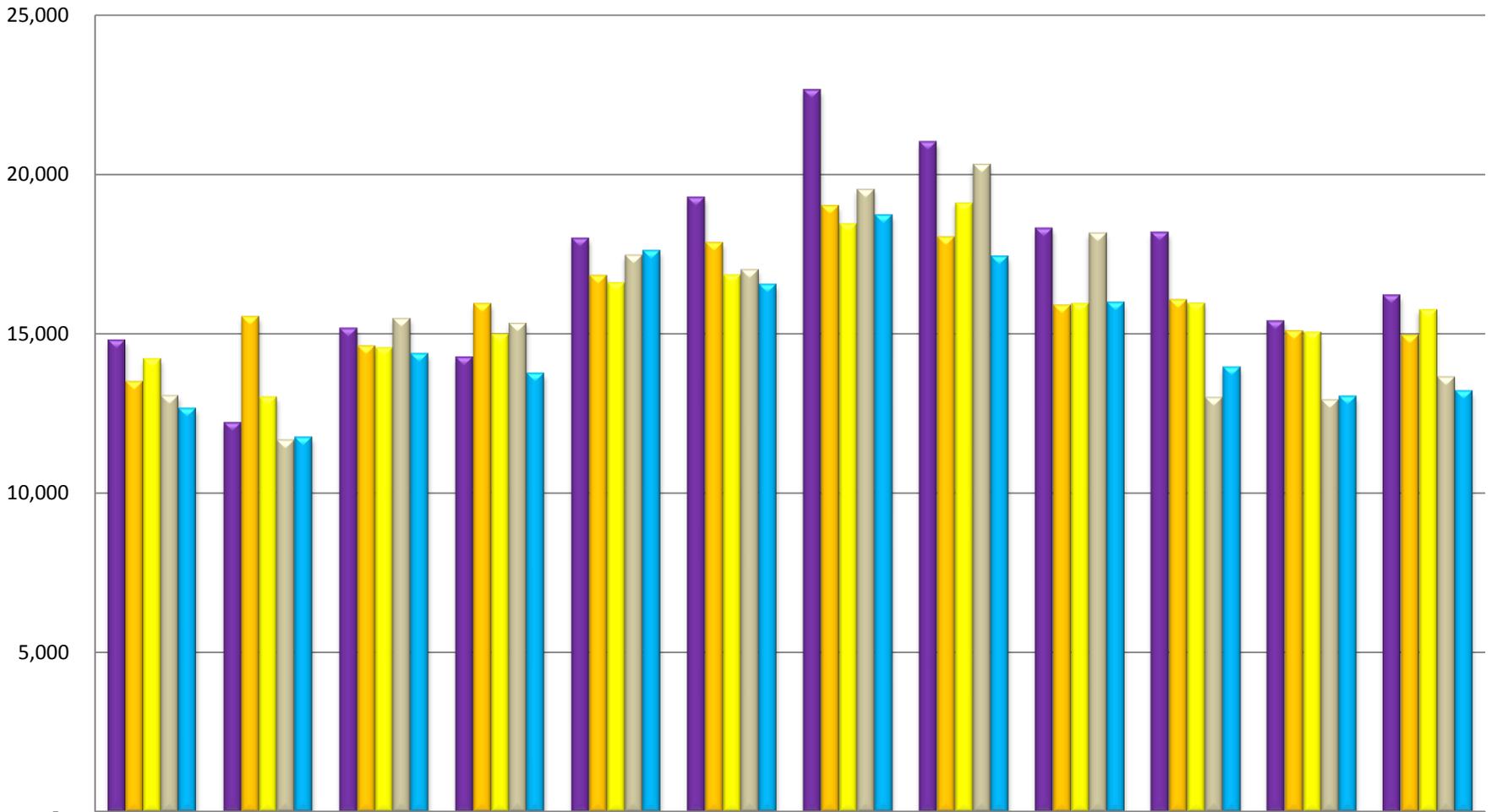
13,218

## Rural Systems Cumulative Tons



|      | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    | Oct    | Nov    | Dec    |
|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 2011 | 1,116 | 2,003 | 3,085 | 4,325 | 5,681 | 7,093 | 8,506 | 9,910  | 11,262 | 12,625 | 13,901 | 15,083 |
| 2012 | 1,071 | 2,043 | 3,194 | 4,376 | 5,829 | 7,300 | 8,717 | 10,182 | 11,469 | 12,716 | 13,907 | 14,957 |
| 2013 | 831   | 1,924 | 2,969 | 4,057 | 5,317 | 6,605 | 8,009 | 9,271  | 10,520 | 11,676 | 12,771 | 13,760 |
| 2014 | 904   | 1,663 | 2,803 | 3,885 | 5,207 | 6,373 | 7,849 | 9,223  | 10,377 | 11,387 | 12,378 | 13,305 |
| 2015 | 853   | 1,669 | 2,638 | 3,962 | 5,123 | 6,319 | 7,704 | 8,950  | 10,051 | 11,189 | 12,250 | 13,218 |

## Rural Systems Cumulative Customers



|      | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2011 | 14,808 | 12,219 | 15,176 | 14,271 | 17,997 | 19,277 | 22,651 | 21,019 | 18,313 | 18,182 | 15,402 | 16,217 |
| 2012 | 13,486 | 15,525 | 14,604 | 15,926 | 16,805 | 17,840 | 18,990 | 18,013 | 15,877 | 16,048 | 15,073 | 14,936 |
| 2013 | 14,218 | 13,024 | 14,570 | 14,989 | 16,606 | 16,848 | 18,454 | 19,106 | 15,950 | 15,960 | 15,057 | 15,759 |
| 2014 | 13,063 | 11,669 | 15,484 | 15,325 | 17,461 | 17,005 | 19,527 | 20,314 | 18,157 | 13,007 | 12,929 | 13,651 |
| 2015 | 12,662 | 11,760 | 14,372 | 13,756 | 17,600 | 16,543 | 18,712 | 17,424 | 15,981 | 13,949 | 13,037 | 13,209 |

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## HOUSEHOLD HAZARDOUS WASTE 2015

The Kootenai County Solid Waste Department operates year-round Household Hazardous Waste (HHW) collection facilities at the Ramsey and Prairie Transfer Stations. The Ramsey (HHW) facility is opened from 8:00 a.m. until 4:00 p.m. Wednesday and Saturday. The Prairie Transfer Station has the same hours of operations but operates on Friday and Saturday. These facilities accept up to five liquid gallons from residential customers. It does not accept any commercial hazardous waste.



Most communities offer limited HHW collection days (some only a few days annually). Kootenai County Solid Waste Department offers over 200 days/year. Limiting days is necessary as trained and certified technicians are responsible for safe identification, acceptance, material handling, packaging, shipping, etc. to avoid spills, explosions, contaminations or injury.

Only HHW can be accepted and there are also restrictions on type and volume of material as called out in the Panhandle Health District Critical Materials Regulation/Certification and facility operating permit. Transfer stations are Tier II Facilities - permitted to accept municipal solid waste and no industrial or commercial hazardous waste.

During the summer of 2015, the Ramsey Transfer Station offered an additional day per week (Friday) for acceptance of HHW. Additionally, the five gallons limit was increased to ten gallons at both collection locations. It is anticipated that the additional day will be added during the summer of 2016 and the increased limits maintained at ten gallons.

The Ramsey collection “shed” is outdated and has limited functionality and very restricted traffic and user drop off areas/lanes. During 2016, options to develop a new special/hazardous waste structure or expand the current collection area will be conducted.

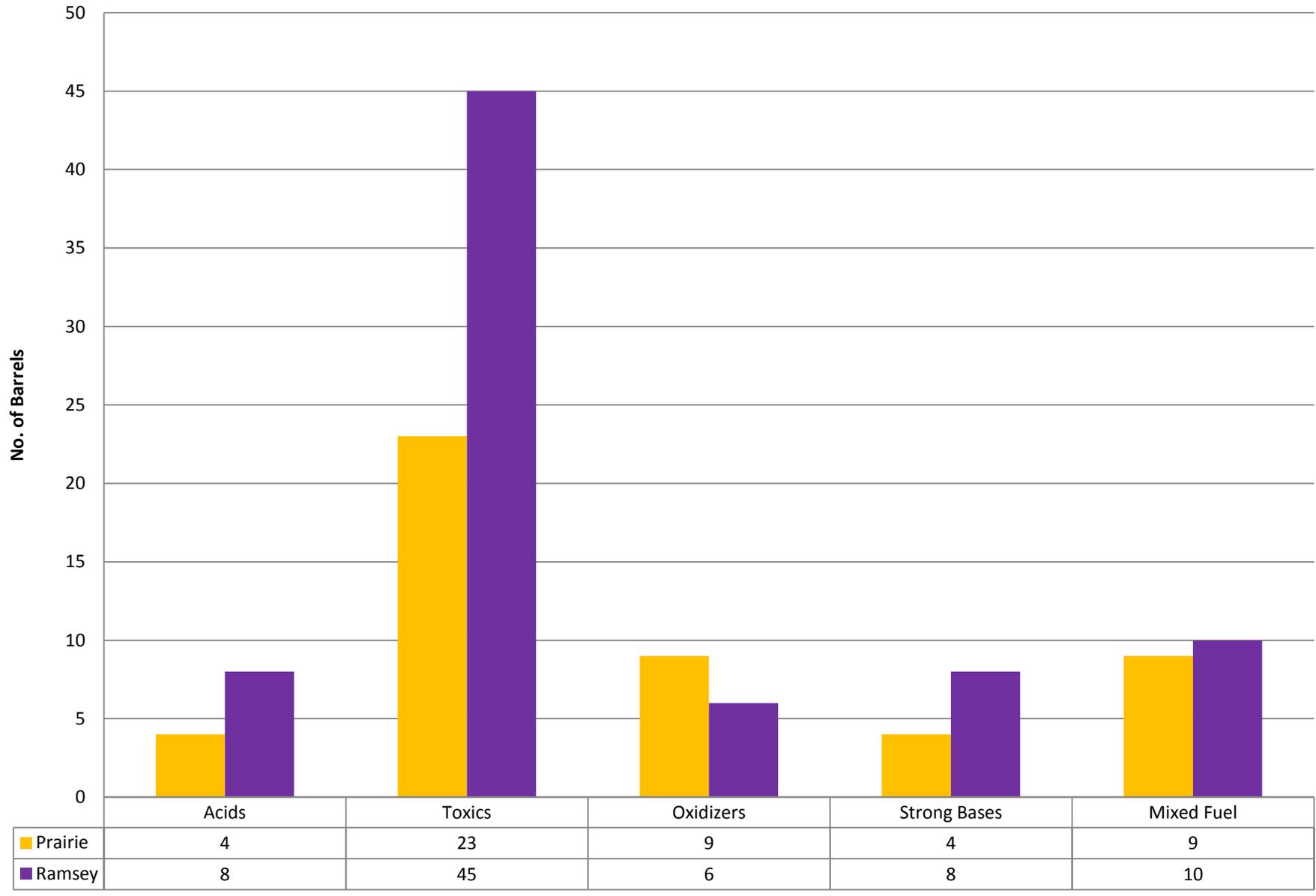
A valuable exchange program, which addresses the growing awareness of the problems of household hazardous waste in the environment, is also offered. By signing off on a release of liability form, customers may shop at the exchange cart for items such as pesticides, herbicides, paint, and many other household products. Department staff tries to ensure that the containers with product are labeled, but we are unable to guarantee the product, thus the liability waiver.

The Department continues to use mixed latex paint as an additive to the existing alternative daily cover for the landfill. All paint possible is collected in the HHW programs at the transfer stations. Staff sorts and separates the paint collected and set aside latex paint for shipment to the landfill. Landfill staff mixes the latex paint with a Posi-Shell® material and sprays it over the working face of the landfill as daily cover. This unique approach provides the Department with a cost-effective and environmentally

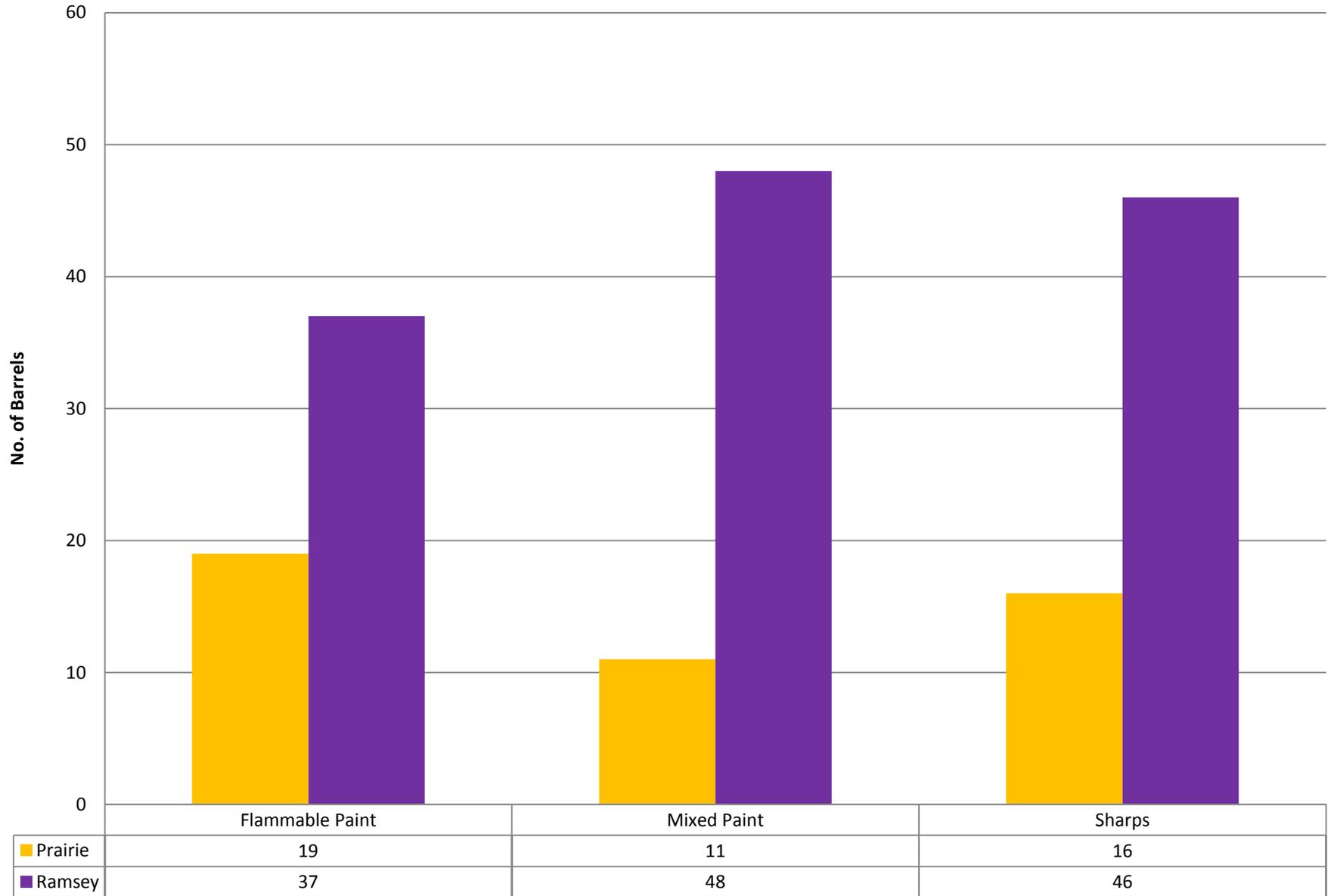
safe alternative cover and reduces expenses for transportation of HHW disposal. This cover system also saves very valuable landfill air space.

A chart is included demonstrating the program for reuse of used waste oil throughout facilities. The chart shows the amount of waste oil used in heating maintenance shops at Ramsey, Prairie and Fighting Creek. The excess waste oil brought into the facilities is then shipped out to be reused elsewhere as fuel, asphalt emulsion, and other uses.

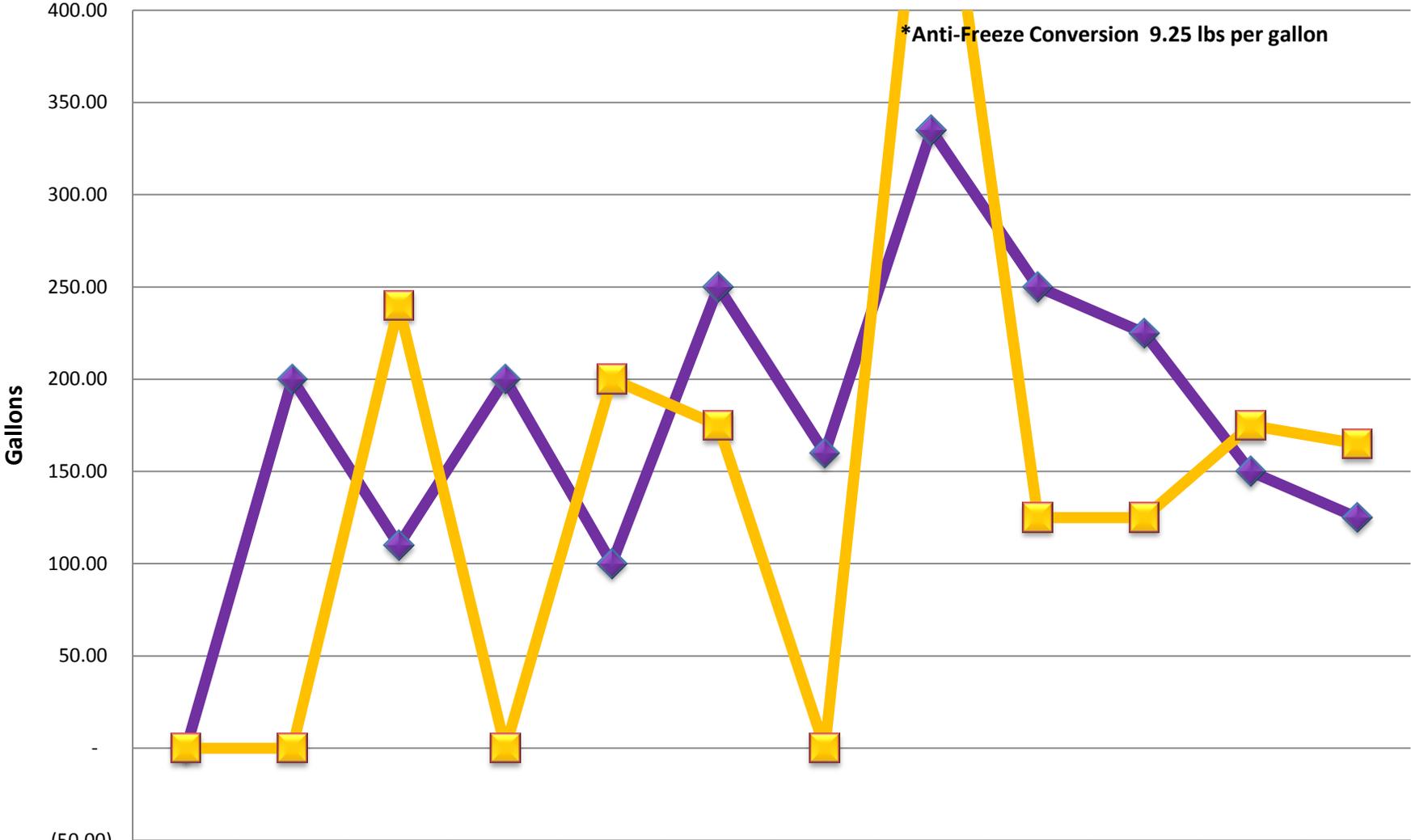
# Household Hazardous Waste - Processed



# Household Hazardous Waste - Paint/Sharps

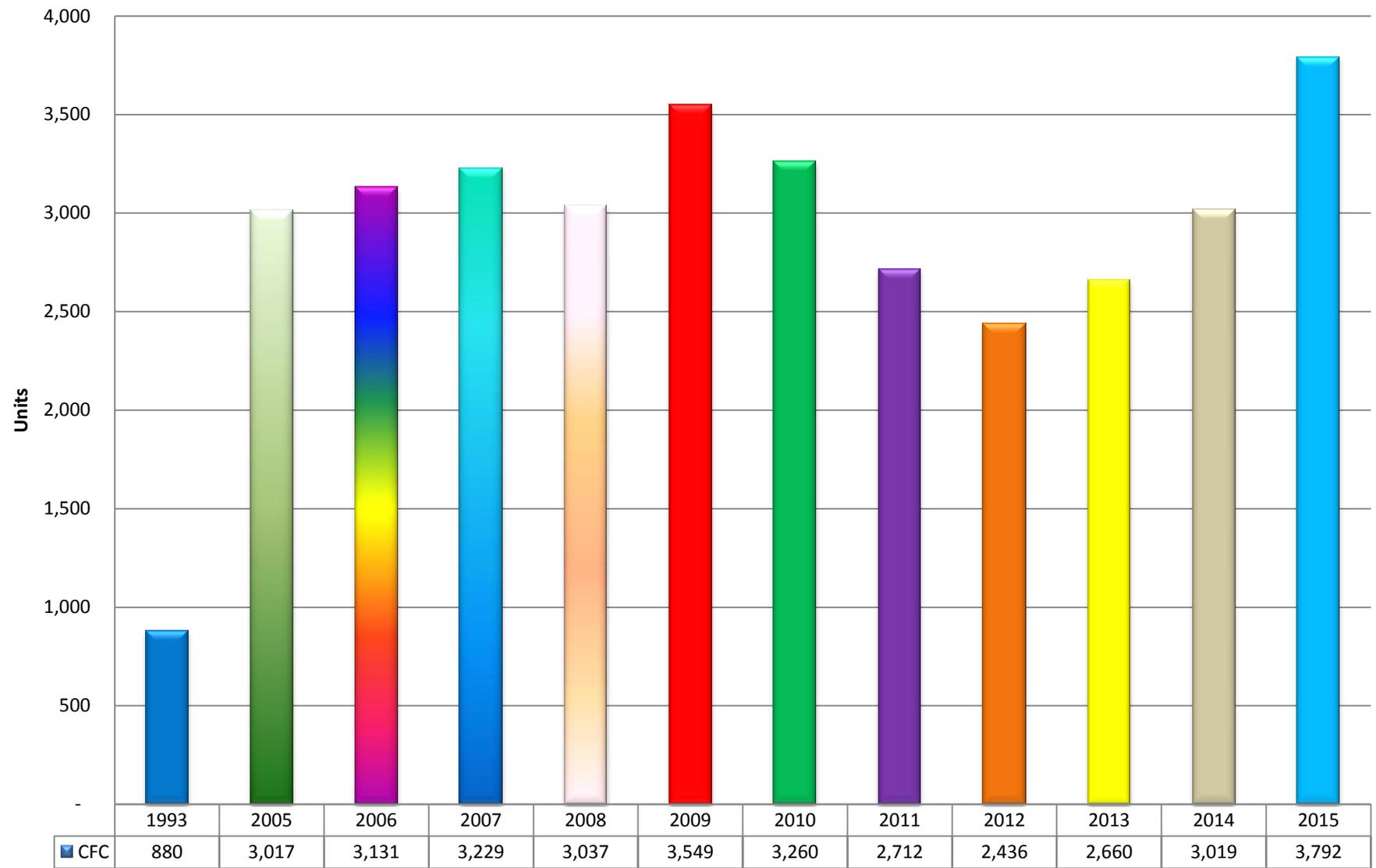


# Anti-Freeze (17.81 tons\*)



|         | Jan | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    | Oct    | Nov    | Dec    |
|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ramsey  | -   | 200.00 | 110.00 | 200.00 | 100.00 | 250.00 | 160.00 | 335.00 | 250.00 | 225.00 | 150.00 | 125.00 |
| Prairie | -   | -      | 240.00 | -      | 200.00 | 175.00 | -      | 540.00 | 125.00 | 125.00 | 175.00 | 165.00 |

# CFC Units\* (3,792 units)



\*includes Refrigerators, Freezers, AC Units, etc.

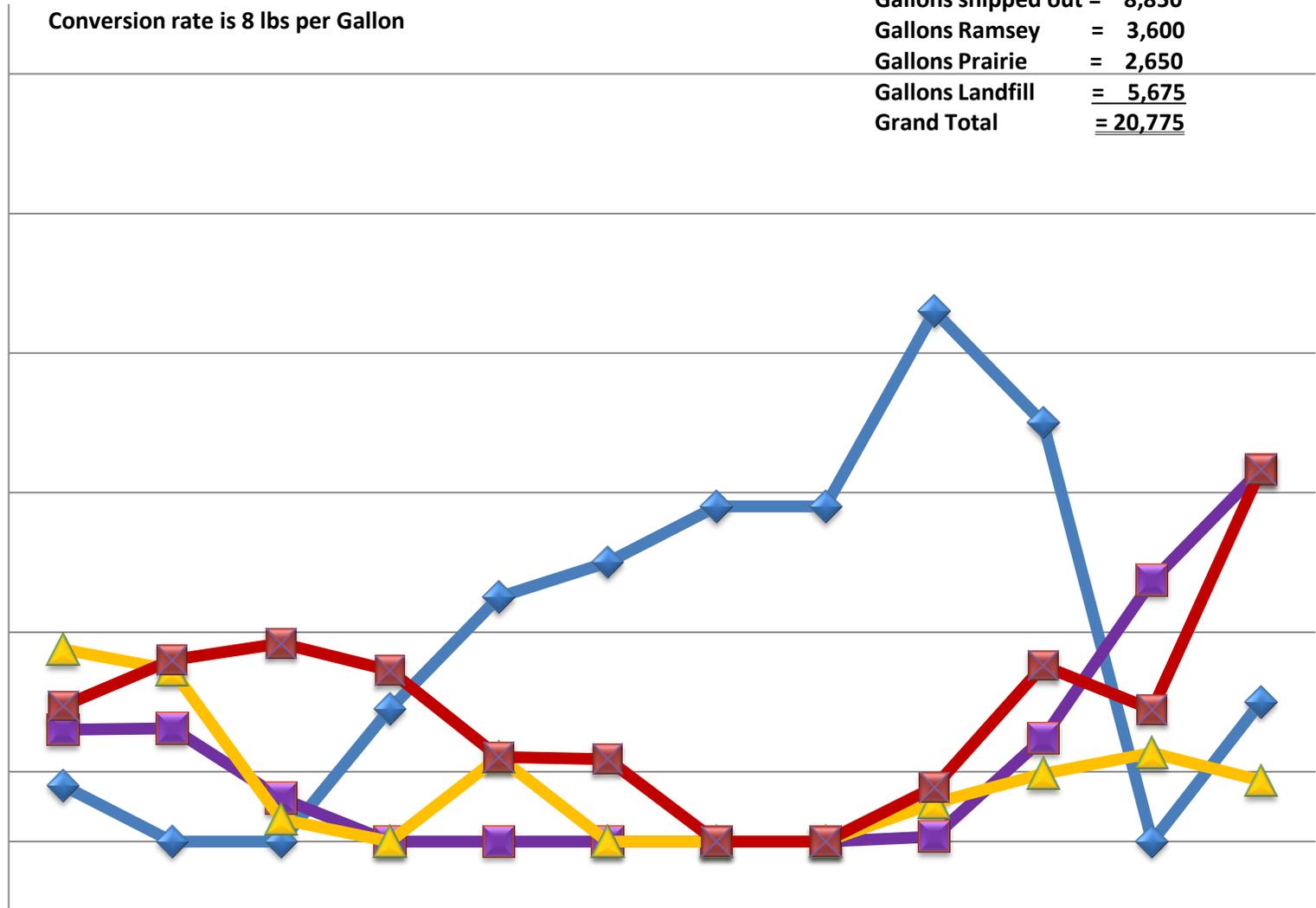
# Used Motor Oil

## 2015 Totals

Gallons shipped out = 8,850  
 Gallons Ramsey = 3,600  
 Gallons Prairie = 2,650  
 Gallons Landfill = 5,675  
 Grand Total = 20,775

Conversion rate is 8 lbs per Gallon

Tons  
 11.0  
 9.0  
 7.0  
 5.0  
 3.0  
 1.0  
 (1.0)



|                | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Shipped        | 0.8 | -   | -   | 1.9 | 3.5 | 4.0 | 4.8 | 4.8 | 7.6 | 6.0 | -   | 2.0 |
| Ramsey         | 1.6 | 1.6 | 0.6 | -   | -   | -   | -   | -   | 0.1 | 1.5 | 3.7 | 5.3 |
| Prairie        | 2.8 | 2.5 | 0.3 | -   | 1.2 | -   | -   | -   | 0.6 | 1.0 | 1.3 | 0.9 |
| Fighting Creek | 1.9 | 2.6 | 2.8 | 2.5 | 1.2 | 1.2 | -   | -   | 0.8 | 2.5 | 1.9 | 5.3 |

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## Department of Environmental Quality Reporting

The following is a summary of the electronic information provided to Idaho Department of Environmental Quality (DEQ) and Idaho Panhandle Health District (PHD) with this annual report.

- A. **Inspections and Reports:** The 2015 Waste Stream Analysis is attached hereto and incorporated herein by reference. All required documents relevant to this annual report are included on a CD saved as PDF documents and provided to Idaho Department of Environmental Quality (DEQ) and Idaho Panhandle Health District (PHD) each year.
- B. **Tier 1 Operating Air Quality Permit:** Copies of all Tier 1, Title V Air Quality Permit documents and reports have been provided and can be viewed at the Idaho DEQ office in Coeur d'Alene.
- C. **Closure and Post-Closure Plan:** There were no changes or modifications to the Closure Plan in 2015.
- D. **Financial Assurance Plan (FAP):** Updated information regarding monies spent and set aside to fund future closure and post-closure requirements per §39-7417 of Idaho Code has been included in the electronic version of this report. A copy of the letter and supporting documents from Kootenai County, Finance Director, Sondra Emerson, is attached hereto and incorporated herein by reference. A copy of this same information is included as a PDF document in the electronic version of this report.
- E. **Landfill Gas Reporting:** Fighting Creek gas system reports are included in the Greenhouse Gas Reporting to EPA, a copy of which is included in the electronic version of this report. The Ramsey gas system report is included in the electronic version of this annual report.
- F. **Ground Water Summary:** The electronic reports and data from bi-annual ground water monitoring as described in the Ground Water Monitoring Plan is included in the electronic version of this report.
- G. **Leachate Report:** A summary of the performance of the leachate treatment and disposal system during the preceding calendar year containing the same information as previously reported in the annual leachate report is included in the electronic version of this report.
- H. **Surface Water:** The Department complied with the regulations of the EPA regarding MSGP and SWPPP. Copies of these reports have been provided, previously, to DEQ, but are included in the CD accompanying this report to DEQ.
- I. **Plans and Specifications:** No new construction was completed in 2015 that required approval of plans and specifications.

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## Inspections and Reports

1. Idaho DEQ approved the 2014 Solid Waste Analysis on March 1, 2016. A copy of said approval is attached hereto and incorporated herein by reference.



State of Idaho  
Department of  
Environmental Quality

2110 Ironwood Parkway • Coeur d'Alene, ID 83814 • (208) 766-1422

C. L. "Butch" Otter, Governor  
John H. Tippets, Director

March 1, 2016

Cathy Mayer  
Kootenai County Solid Waste Department  
3650 N. Ramsey Road  
Coeur d'Alene, ID 83815  
[cmayer@kcgov.us](mailto:cmayer@kcgov.us)

Subject: Kootenai County Solid Waste – 2014 Solid Waste Analysis

Dear Ms. Mayer:

On February 25, 2015, the Department of Environmental Quality (DEQ) received the Kootenai County Solid Waste Department 2014 Solid Waste Analysis. This report contains an overview of the Kootenai County Solid Waste facilities and operations. Included with the analysis are the Tier 1 Semi-Annual Report, 2014 Financial Assurance, the Ramsey Landfill Gas Control Annual Report, the 2014 Semi-annual Groundwater Monitoring Reports, stormwater monitoring and reporting information, and the Leachate Report.

DEQ has reviewed the Analysis and finds it to be acceptable. Thank you for providing this report. If you should have any questions, please contact me at 208-666-4622.

Sincerely,

A handwritten signature in blue ink, appearing to read "M. Plaisted".

Matt Plaisted, P.E.  
Engineering Manager  
[Matthew.Plaisted@deq.idaho.gov](mailto:Matthew.Plaisted@deq.idaho.gov)

c: Erik Ketner, [eketner@phd1.idaho.gov](mailto:eketner@phd1.idaho.gov)  
Rob Eachon, [Robert.eachon@deq.idaho.gov](mailto:Robert.eachon@deq.idaho.gov)  
Laureen Chaffin, [lchaffin@kcgov.us](mailto:lchaffin@kcgov.us)  
File: TRIM\_Kootenai County Landfill (2011BAZ2174)

Attachment "A"

## Tier 1 Operating Air Quality Permit

- On August 3, 2015, the Department submitted a Tier I operating permit application to Idaho DEQ. The application was declared complete on September 30, 2015. The application can be viewed at the Idaho DEQ office in Coeur d'Alene, Idaho.



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 NORTH HILTON STREET, BOISE, ID 83706 - (208) 373-0502

C. L. "BUTCH" OTTER, GOVERNOR  
JOHN H. TIPPETS, DIRECTOR

September 30, 2015

VIA E-MAIL

Cathy Mayer  
Director  
Kootenai County Farm Landfill  
3650 North Ramsey Road  
Coeur d'Alene, Idaho 84815

RE: Facility ID No. 055-00044, Kootenai County Farm Landfill, Coeur d'Alene  
Completeness Determination of Tier I Operating Permit Application

Dear Ms. Mayer:

On August 3, 2015, the Department of Environmental Quality (DEQ) received a Tier I operating permit application from Kootenai County Farm Landfill located in Coeur d'Alene. The application materials have been reviewed and determined complete. Therefore, DEQ will proceed with the processing of this application, in accordance with IDAPA 58.01.01.360, Rules for the Control of Air Pollution in Idaho (Rules).

Although this application has been declared complete, it may be necessary to request additional information to complete our review. Requested information must be submitted as provided in IDAPA 58.01.01.314-315 (Rules).

If you have any questions about this letter or about the permitting process, please contact me at (208) 373-0502 or [thomas.dalzell@deq.idaho.gov](mailto:thomas.dalzell@deq.idaho.gov).

Sincerely,

*Thomas Dalzell*

Thomas Dalzell  
Permit Writer  
Air Quality Division

Permit No. T1-2015-0038 PROJ 61569

## **Kootenai County Farm Landfill Closure and Post-Closure Plan**

- No changes were made to the Closure and Post-Closure Plan since September 16, 2010. Copies of this report were provided to Idaho DEQ and Idaho Panhandle Health District.
- Complete copies of the Closure and Post Closure plan are available for inspection at Idaho DEQ and the Administration office at Kootenai County Solid Waste.

## Financial Assurance for Closure and Post-Closure Activities

Enclosed is a letter of Financial Assurance from the Kootenai County Finance Director stating that Kootenai County meets the financial obligations of Closure and Post-Closure for the Fighting Creek Farm Landfill.



### Kootenai County Auditor

Jim Brannon · Clerk

451 Government Way · P.O. Box 9000 · Coeur d'Alene, ID 83816-9000

Phone (208)446-1650 · Fax (208)446-1662

<http://www.kcgov.us/departments/auditor> · Email [kcauditor@kcgov.us](mailto:kcauditor@kcgov.us)

January 25, 2016

Idaho Department of Environmental Quality

Attn: Matt Plaisted, Technical Engineer

2110 Ironwood Parkway

Coeur d'Alene, ID 83814

RE: Kootenai County Farm Landfill - Closure and Post-Closure Funding

Dear Mr. Plaisted;

The financial liability associated with monitoring the closure and post-closure responsibilities, assumed by Kootenai County, is fully funded for the portion of the Kootenai County Farm Landfill (Fighting Creek) that has been depleted to date. The estimated liability at the end of our most recently completed fiscal year is defined and summarized on the attached schedule, which indicates an accrued obligation balance of \$7,164,000.

Additionally, this information will be included in our (Audited) Comprehensive Annual Financial Report for Kootenai County, Idaho for the year ending September 30, 2015. The restricted cash balance for closure and post-closure will be displayed in the Business-type Activities column under the Assets section of the report and will support or exceed the total noted above.

Please contact me for further questions or additional assistance. I can be reached at the address above, or by phone at 446-1668.

Sincerely,

Handwritten signature of Sondra Emerson in blue ink.

Sondra Emerson  
Finance Director

cc: Solid Waste  
BOCC

Attachment

**Attachment "D"**

## Landfill Gas Reports for Ramsey and Fighting Creek Farm Landfills

The Fighting Creek Farm Landfill is required to report to the EPA twice a year under the Tier 1 Annual Compliance. Copies of these reports are attached to the electronic version of this report.

The gas system at the old Ramsey Landfill does not fall under the same reporting requirements. The annual gas system report for Ramsey is attached to the electronic version of this report. An excerpt from the report shows below.

**Parametrix**  
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES

719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104 | P 206.394.3700

January 20, 2016  
Parametrix No. 553-1660-038 (02/02)

Cathy Mayer, Director  
Kootenai County Solid Waste Department  
3650 N. Ramsey Road  
Coeur d'Alene, ID 83815

Re: The Ramsey Road Landfill Gas Control Annual Report for 2015

Dear Cathy:

This letter is an annual summary of the landfill gas monitoring and landfill gas management activities performed at the Ramsey Road Landfill in 2015. It is specific only to the landfill gas control system. This letter can be forwarded to Division of Environmental Quality and Panhandle District Health Department to communicate gas information and evaluations.

The annual letter report includes the follow sections:

- Introduction
- Description of Facilities
- System Monitoring Results
- Conclusions
- Recommendations

### INTRODUCTION

The Ramsey Road Landfill is located at 3650 N. Ramsey Road, Coeur d'Alene, Idaho 83815. Ramsey Road divides the site into east and west areas. The landfill, which was a municipal solid waste landfill, is now closed. The landfill began accepting waste in 1963 and closed in 1993.

During the summers of 1992 and 1993, a gas control system was installed at the site in both the east and west areas. The gas control system consists of in-refuse wells, perimeter (native soil) wells, horizontal trenches, collection manifold and laterals, condensate traps, and a blower/flare station. Landfill settlement throughout the landfill made it difficult to locate and repair all the pipe failures, resulting in low methane and high oxygen concentrations. Consequently, in December 2002 and January 2003, the buried polyvinyl chloride (PVC) manifold and lateral piping was replaced with high-density polyethylene (HDPE) by the County. In May 2006, four additional shallow gas wells (ER-12 through ER-15) were installed by the County to increase landfill gas collection along the east side to help eliminate methane levels in GP-6 and 7, which are located just outside of the landfill footprint. A down-sized open flare was installed at the blower/flare facility (October 2007) to better handle the low landfill gas stream from landfill. Two additional gas probes (GP-6A and 7A) were installed June 2008 between the landfill and proposed development projects on the east side to monitor potential impacts to human health since there has been evidence of subsurface migration in the past.

*inspired people. inspired solutions. making a difference.*

## Ground Water Summary

- The bi-annual monitoring requirements for ground water were completed as required in 2015.
- The following is an excerpt from the 2015 Ground Water Monitoring Report prepared for Kootenai County Farm Landfill by the Engineering Firm of Parametrix. The full reports are available for review at the Idaho DEQ Office in Coeur d'Alene and the Solid Waste Administration Office.
- Groundwater quality results as stated in Section 2.5 of the Summary Report were below primary state or federal groundwater quality criteria.

### 2.4 Surface Water Quality Results

The results of the semiannual surface water sampling of surface water station SW-2 conducted on April 14, 2015 are summarized in Table A-1 (Appendix A). Laboratory reports and field data were presented in the semiannual groundwater monitoring report (Parametrix 2015b). Analysis of the surface water results will also be presented in the Annual Surface Water Monitoring Report for 2015. No surface water samples were collected in October 2015 because the station was dry.

### 2.5 Summary and Conclusions

Groundwater quality results were below primary state or federal groundwater quality criteria. Volatile organic compounds were not detected in any of the landfill wells. Nitrate concentrations have increased in well M-9 over the past few years but remain well below the groundwater quality criteria. Trends in ammonia concentrations are continuing to be monitored. Concentrations of other leachate indicator parameters in downgradient wells did not show evidence of landfill impacts.

- “Domestic” Water Well Monitoring results as stated in Section 3.2 of the Summary Report indicate that the concentrations of iron and manganese in the Brand well were above secondary state and federal drinking water criteria. These parameters have regularly exceeded water quality criteria during previous sampling events which is a reflection of natural occurrence of these minerals in groundwater. Iron and manganese concentrations in the Shriner well have fluctuated over the past few years, and were above the criteria in April 2015.

### 3.2 Groundwater Quality Results

The analytical data for 2015 are summarized in Table A-5 (Appendix A). For the October 2015 monitoring event, the laboratory reports and chain-of-custody forms are provided in Appendix B, and field data are provided in Appendix C. The April 2015 laboratory and field data were presented in the semiannual groundwater monitoring report (Parametrix 2015b). A review of the laboratory data was conducted including a check of holding times, method blanks, and trip blanks. No data were qualified as a result of this review.

Time-series plots for parameters that were detected in the domestic wells during the last few years are presented in Appendix D-2. The plots also include data for original landfill upgradient and downgradient monitoring wells and the MCL, if applicable.

The data collected from the domestic wells indicate that the concentrations of iron and manganese in the Brand well were above secondary state and federal drinking water criteria. These parameters have regularly exceeded water quality criteria in both wells during previous sampling events, which is a reflection of natural occurrence of these minerals in groundwater. Iron and manganese concentrations in the Shriner well have fluctuated over the past few years, and were above the criteria in April 2015.

For the Brand well, the time-series plots show upward trends in some parameters (including conductivity, chloride, sulfate, iron, and manganese) in the last several years. These trends are not attributed to the landfill, since similar increases have not been observed in the landfill monitoring wells.

## Kootenai County Farm Landfill Leachate Report

A copy of the report to Idaho DEQ outlining the volume of leachate processed in 2015 and the methods used to process the leachate is attached in the electronic version of this report. The total of 5,837,220 gallons leachate were processed in 2015.



## KOOTENAI COUNTY

SOLID WASTE

---

February 3, 2016

Mr. Matt Plaisted, P.E.  
%Division of Environmental Quality  
2110 Ironwood Parkway  
Coeur d'Alene, ID 83814

Re: 2015 Annual Leachate Report – Fighting Creek Farm Landfill

Dear Mr. Plaisted,

Attached you will find a spreadsheet that lays out how the Solid Waste Department managed leachate during the 2015 season. During the 2015 season, the amount of leachate processed was 5,837,220 gallons.

During this season we used two different methods to control and remove leachate from the landfill. I have listed below the methods and amount(s) of leachate processed.

- |               |                   |
|---------------|-------------------|
| 1. Misting    | 5,700,960 gallons |
| 2. Evaporator | 136,260 gallons   |
| Total         | 5,837,220 gallons |

We continue to consult with Steve Emge of the engineering firm, Parametrix, to review the results of our leachate and gas systems. Mr. Emge will continue to look for any inconsistencies or trends appearing from the data collected at the landfill. Leachate quality data will be included within the semiannual and annual groundwater reports.

Please let me know if you have any questions or concerns about this information.

Sincerely,

  
Rick Bishop  
Operations Manager

cc: Cathy Mayer Solid Waste Director;  
Eric Ketner, PHD  
Steve Emge, Parametrix;

**Attachment "G"**

# Kootenai County Farm Surface Water

The Solid Waste Department complied with the regulations of the EPA regarding MSGP and SWPPP. Copies of these reports were provided to Idaho DEQ at the time they were submitted. Courtesy copies of the submittals have been included on the CD provided to Idaho DEQ with this report.

NPDES Permit Tracking No.:  
IDR05C356

|  UNITED STATES ENVIRONMENTAL PROTECTION AGENCY<br>WASHINGTON, DC 20460   |   |
|---|---|
| Annual Reporting Form   |   |
| <b>A. GENERAL INFORMATION</b>   |   |
| 1. Facility Name: <span style="border: 1px solid black; padding: 2px;">Kootenai County Farm Landfill</span>   |   |
| 2. NPDES Permit Tracking No.: <span style="border: 1px solid black; padding: 2px;">IDR05C356</span>   |   |
| 3. Facility Physical Address:   |   |
| a. Street: <span style="border: 1px solid black; padding: 2px;">22089 S. HWY 195</span>   |   |
| b. City: <span style="border: 1px solid black; padding: 2px;">Coeur D'Alene</span>  | c. State: <span style="border: 1px solid black; padding: 2px;">ID</span> d. Zip Code: <span style="border: 1px solid black; padding: 2px;">83814</span> |
| 4. Lead Inspectors Name: <span style="border: 1px solid black; padding: 2px;">Rick Bishop</span> Title: <span style="border: 1px solid black; padding: 2px;">Operations Manager</span>  |   |
| Additional Inspectors Name(s): <span style="border: 1px solid black; padding: 2px;">John Phillips</span> <span style="border: 1px solid black; padding: 2px;">Jim Hagenbarth</span>   |   |
| 5. Contact Person: <span style="border: 1px solid black; padding: 2px;">Cathy Mayer</span> Title: <span style="border: 1px solid black; padding: 2px;">Director</span>  |   |
| Phone: <span style="border: 1px solid black; padding: 2px;">208-446-1444</span> Ext. <span style="border: 1px solid black; padding: 2px;"></span> E-mail: <span style="border: 1px solid black; padding: 2px;">cmayer@kcglov.us</span>  |   |
| 6. Inspection Date: <span style="border: 1px solid black; padding: 2px;">09/17/2015</span>  |   |
| <b>B. GENERAL INSPECTION FINDINGS</b>   |   |
| 1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>If NO, describe why not:   |   |
| NOTE: Complete Section C of this form for each industrial activity area inspected and included in your SWPPP or as newly identified in B.2 or B.3 below where pollutants may be exposed to stormwater.  |   |
| 2. Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in your SWPPP? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO<br>If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place: |   |
|   |   |

## **Kootenai County Farm Plans & Specifications**

No constructions projects or plans were completed in 2015.