

## **P. UTILITIES**

### **1. Water and Sewer Systems (Table P-1)**

A partial listing of system capacities in eight representative communities are listed in Table P-1. Water system capacities in 2012 ranged from 100,000 gallons/day in Saguache to 11 million gallons/day (MGD) in Monte Vista, and 7.34 MGD in Alamosa. Most in these examples are meeting peak demand with varying percentages of excess capacity. Monte Vista's 8 MGD excess was 73.1 percent of total capacity, and Alamosa's 2.24 MGD was 30.5 percent.

Commercial tap fees (based on 1-inch line) ranged from \$500 in Center and La Jara to \$3,200 in Monte Vista, and user rates ranged from zero in Center, Creede and Saguache to \$1.46 per 1,000 gallons in Monte Vista. Residential tap fees ranged from \$500 in Center to \$3,000 in Creede, and user rates ranged from \$1.22 per 1,000 gallons in Alamosa to \$6 per 10,000 gallons in Monte Vista.

Sewer system capacities ranged from 150,000 gallons per day in Saguache to 5.50 MGD in Monte Vista, and 2.57 MGD in Alamosa. Excess capacity in Monte Vista of 2.73 MGD was 49.6%, and Alamosa's 0.94 MGD was 36.6%. Commercial taps (based on 4-inch line) ranged from \$25 in La Jara to \$2,250 in South Fork, and rates ranged from \$1.22/1,000 gal. in Alamosa to \$3.90/1,000 gal. in Monte Vista. Residential taps ranged from \$25 in La Jara to \$2,000 in Del Norte, and rates ranged \$2.50/1,000 gal. in Alamosa to none in Center, Creede, Saguache and South Fork.

### **2. Water and Sewer System Needs (Tables P-2 and P-2A)**

Table P-2 addresses water and sewer system needs in 23 towns and water sanitation districts in the Valley, with a total cost for project proposals to the Colorado State Department of Local Affairs Energy Mineral Impact program at \$74.4 million. Compare this to the CEDS 2008 Update's total request for funding of \$65 million. County total project cost estimates are highest in the two most populous counties: Rio Grande (\$31.4 million); and Alamosa (\$20.6 million).

None of the projects listed for any of the six counties has a priority ranking that suggests there is an acute health hazard that must be addressed. Alamosa, Hooper and South Fork have proposed new water treatment facilities, while six agencies have called for improvements or the expansion of their existing water treatment plants. Eight agencies, some included in those hoping to upgrade their water treatment facilities, have also called for the expansion of wastewater treatment facilities.

### **3. Solid Waste, Landfills, and Recycling (Table P-3, P-4, P-4A, P-4B)**

Table P-3 lists three major landfills with annual volume of 111,672 cubic yards. These include the San Luis Valley Regional landfill west of Monte Vista, Saguache County landfill, and Mineral County landfill. Transfer stations are located at Fort Garland and San Luis.

Alamosa, Monte Vista, and the larger cities and towns provide trash collection, and the smaller towns and outlying parts of counties are served by 6 private waste disposal companies. Illegal dumping is a problem in most areas.

Nationwide, recycling is being used more frequently to reduce solid waste going into landfills, and to reduce landfill costs. Alamosa, Creede and the Saguache County Landfill all operate recycling services.

Table P-4 outlines how much solid waste the average person in the U.S. generates each day. In 2009, the average person generated 4.3 pounds; 2.4 pounds (55.8 percent) of which was disposed of in a landfill; 1.5 pounds (34.9 percent) was recycled; and 0.5 pounds burned for energy recovery.

In Colorado, 10.4 million tons of solid waste was generated in 2011 with slightly more than 4 million tons diverted from landfills. The latter figure included 1.1 million tons of scrap metal.

#### **4. Electric Utilities (Tables P-5, P-6, P-7)**

Xcel Energy (Table P-5) and Center Municipal Light & Power (Table P-7) are distributors of both electric and natural gas energy, and San Luis Valley Rural Electric Cooperative (Table P-6) distributes electricity only. Xcel Energy's territory covers most of the larger cities and towns; the Rural Electric serves South Fork, Crestone, Creede, and a large portion of the unincorporated areas; and Center Municipal for its own town. Center buys its power from Xcel.

Electric rate schedules for these companies as reported in the three separate tables differ somewhat in format, and may not be directly comparable in all cases. Electric energy units in the tables refer to a kilowatt-hour (kWh), which is equivalent to 1 kilowatt (1,000 watts) of power expended over one hour of time. One watt is a unit of power (or rate of energy) equivalent to one ampere of electric current delivered across a potential of one volt. Ten 100-watt light bulbs require 1 kW of power to stay lit at any point in time.

Roughly half of Rural Electric's energy demand comes from irrigation use, with the balance split between residential and commercial. It serves 12,246 meters, including 8,612 residential, 2,619 irrigation and 1,012 commercial.

#### **5. Gas Utilities (Tables P-5A, P-7)**

Table P-5A shows Alamosa, Monte Vista, and 11 other cities and towns with natural gas service distributed by Xcel Energy, and Table P-7 reports the same for the Town of Center, which receives its supply from an Xcel Energy pipeline. While natural gas is preferable, the American Community Survey reported (Table T-3 in the Housing Chapter) that 43.3% of the Valley's 17,153 occupied housing units are heated by utility gas; 22 percent are on bottled, tank, or LP gas; and a surprisingly high percentage (16.3 percent) use wood. Statewide, 74.4 percent are on utility gas lines; 5.1 percent on propane; and only 2 percent rely on wood.

#### **6. Transmission and Generation**

Please see Chapter G on renewable energy for sections on new solar plants and a proposed transmission line.

Table P-1

Water and Sewer System Capacities - Selected Cities/Towns, 2012

Water	Alamosa	Center	Creede	Del Norte
Capacity MGD	7.34	2.44	0.646	2.60
Average Demand MGD	3.50	1.00	0.232	0.75
Peak Demand MGD	5.10	1.20	0.424	1.10
Excess Capacity MGD	2.24	1.24	0.30	0.70
Category Flow Range MGD	1.0 - 5.1	0.5 - 1.2		1.10
Commercial Tap Fee	\$2,450/1 in. tap	\$750/1 in. tap	\$3,000/.75 in. tap	Variable by size <sup>1</sup>
Commercial Monthly Base Fee	\$6.00	\$24.00	\$45.47	\$33.19 first 15,000 gal.
Commercial Use Rate	\$1.22/1,000 gal.	none	none	\$.98/1,000 gal.
Residential Tap Fee	\$1,500/.75" tap	\$500/1 in. tap	\$3,000/.75 in. tap	Variable by size <sup>1</sup>
Residential Monthly Base Fee	\$6.00	\$24.00	\$36.38	\$33.19 first 15,000 gal.
Residential Use Rates	\$1.22/1,000 gal.	none	none	\$.98/1,000 gal.
<b>Sewer</b>				
Capacity MGD	2.57	0.64	0.56	1.38
Average Demand MGD	1.37	0.32	0.10	0.39
Peak Demand MGD	1.63	0.40	0.13	0.84
Excess Capacity MGD	0.94	0.20		1.50
System Type	Extended Air/ Activated Sludge	Lagoons	Lagoons	Lagoons
Commercial Tap Fee	\$1,000/4 in. tap	\$750/4 in. tap	\$3,000/4 in. tap	\$2,000/4 in. tap
Commercial Monthly Base Fee	\$7.00	\$17.00	\$18.43	Variable <sup>2</sup>
Commercial Use Rate	\$2.50/1,000 gal.	none	none	none
Residential Tap Fee	\$1,000/4 in. tap	\$500/4 in. tap	\$3,000/4 in. tap	\$2,000/4 in. tap
Residential Monthly Base Fee	\$5.00	\$17.00	\$14.74	Variable <sup>2</sup>
Residential User Rates	\$2.50/1,000 gal.	none	none	none
<b>Water</b>				
	La Jara	Monte Vista	Saguache	South Fork <sup>4</sup>
Capacity MGD	1.00	11.00	0.10	
Average Demand MGD	0.603	1.04		
Peak Demand MGD	0.783	3.76		
Excess Capacity MGD		8.04		
Category Flow Range MGD	0.536			
Commercial Tap Fees	\$1,250/.75 in. tap	\$3,200/1 in. tap	\$1,000/1 in. tap	
Commercial Monthly Base Fee	\$20 first 1,000 gal.	\$20.20/5,000 gal. <sup>3</sup>	\$25.50	
Commercial Use Rate	\$1.20/1,000 gal.	\$1.46/1,000 gal.	none	
Residential Tap Fee	\$1,250/.75 in. tap	\$2,500/1 in. tap	\$1,000/1 in. tap	
Residential Monthly Base Fee	\$8 first 1,000 gal.	\$20.20/5,000 gal. <sup>3</sup>	\$25.50	
Residential Use Rate	\$.70/1,000 gal.	\$6.00/ 10,000 gal	none	
<b>Sewer</b>				
Capacity MGD	0.17	5.50	0.15	0.30
Average Demand MGD	0.246	1.23	0.0682	0.05
Peak Demand MGD	0.16	2.77	0.116	0.088
Excess Capacity MGD		2.73		0.13
System Type	Lagoons	Lagoons & Aeration	Lagoons	Lagoons & Aeration
Commercial Tap Fee	\$500/4 in. tap	\$1,500/4 in.	\$1,000/4 in. tap	\$2,250/4 in. tap
Commercial Monthly Base Fee	\$33.20	\$10.20/5,000 gal.	\$25.50	\$18.00 <sup>5</sup>
Commercial Use Rate	none	\$3.90/1,000 gal.	none	none
Residential Tap Fee	\$25.00 Inspection fee	\$1,500/4 in.	\$1,000/4 in. tap	\$2,250/4 in. tap
Residential Monthly Base Fee	\$24.95	\$10.20/5,000 gal.	\$25.50	\$18.00
Residential Use Rate	none	\$3.90/1,000 gal.	none	none

Source: SLV Development Resources Group, December 2012 by survey of municipalities.

MGD = Million gallons per day

<sup>1</sup> Commercial and residential water taps are \$2,000 for .75 inch; \$2,500 for 1 inch; \$3,000 for 1.5 inch; and \$3,500 for 2 inch.

<sup>2</sup> Commercial sewer rates are determined by water use and the number and type of plumbing fixtures. A small business with one toilet pays \$22.75 monthly. Residential sewer rates are determined by number of plumbing fixtures. The typical home pays \$21.61 a month.

<sup>3</sup> During the winter period of mid-December to mid-March, the \$20.20 monthly base fee is for up to 15,000 gallons in order to accommodate continuous water flow in homes and businesses to prevent freezing.

<sup>4</sup> South Fork does not have a public water system; residential/commercial building rely on private wells.

<sup>5</sup> Restaurants pay \$24.75 per month and motels pay according to a unique formula.

**Table P-2**

**Colorado Drinking Water Revolving Fund Project List, 2013**

<b>Project Eligibility List*</b>		<b>Project cost</b>
<b>County/Entity</b>	<b>Description</b>	
<b>Alamosa</b>		
<b>East Alamosa WSD</b>	Consolidation of Water Treatment Facilities; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities	\$ 2,100,000
<b>City of Alamosa</b>	New Regional Water Treatment Facilities; Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities	16,500,000
<b>Hooper</b>	New Water Treatment Facility; Connect to Existing Facility; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities; Water Supply Facilities; Water Meters	2,000,000
<b>County total</b>		<b>\$ 20,600,000</b>
<b>Conejos</b>		
<b>La Jara</b>	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities	\$ 1,320,000
<b>Manassa</b>	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Source Water Protection Plan Implementation	2,225,000
<b>Sanford</b>	Construction/Rehab of Distribution/Transmission Lines; Water Supply Facilities	250,000
<b>Antonito</b>	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Water Meters; Water Storage Facilities	975,000
<b>Guadalupe WA (Private Project Eligibility List)</b>	Water Storage Facilities	100,000
<b>Guadalupe WA</b>	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Water Supply Facilities; Water Meters	450,000
<b>County total</b>		<b>\$ 5,320,000</b>
<b>Costilla</b>		
<b>Blanca</b>	Construction/Rehab of Distribution/Transmission lines; Water Supply Facilities	\$ 1,800,000
<b>Costilla County WSD</b>	Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities; Water Supply Facilities	300,000
<b>San Luis WSD</b>	Improvement/Expansion of Water Treatment Facility; Water Supply Facilities; Water Meters	700,000
<b>Garcia DWUA</b>	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Water Meters	200,000
<b>Mesita Township WUA (Private Project Eligibility List)</b>	Improvement/Expansion of Water Treatment Facility; Water Storage Facilities	80,000
<b>San Acacio DWA (Private Project Eligibility List)</b>	Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities	15,000
<b>County total</b>		<b>\$ 3,095,000</b>
<b>Mineral</b>		
<b>Creede</b>	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines	\$ 2,100,000
<b>County total</b>		<b>\$ 2,100,000</b>

Table P-2 continued on next page

**Table P-2 cont.  
Project Eligibility List\***

<b>County/Entity</b>	<b>Description</b>	<b>Project cost</b>
<b>Rio Grande</b>		
<b>Monte Vista</b>	Improvement/Expansion of Water Treatment Plant; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities; Water Supply Facilities	\$ 2,200,000
<b>South Fork WSD</b>	New Water Treatment Facility;Construction/Rehab of Distribution/Transmission Lines; WaterSupply Facilities	14,000,000
<b>Town of South Fork (South Fork Water Authority)</b>	New Water Treatment Facility; Connect to Existing/New Water Treatment Plant; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities; Water Supply Facilities; Water Meters; Source Water Protection	15,274,510
<b>County total</b>		<b>\$ 31,474,510</b>
<b>Saguache</b>		
<b>Baca Grande WSD</b>	Improvement/Expansion of Water Treatment Facility; Consolidation of Water treatment Facilities; Connect to Existing Facility; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities; Water Meters; Green Infrastructure, Water Efficiency Improvements; Energy Efficiency Improvements/Environmentally Innovative Projects	\$ 2,750,000
<b>Center</b>	Expansion/Improvement of Water Treatment Facilities; Water Storage Facilities; Water Supply Facilities, Construction/Rehabilitation of Distribution/Transmission Lines; Water Meters	3,520,000
<b>Crestone</b>	Improvement/Expansion of Water Treatment Facility; Connect to Existing Facility; Construction/Rehab of Distribution/Transmission Lines; Water Meters	500,000
<b>Moffat</b>	New Water Treatment Facility; Connect to Existing Facility; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities; Water Supply Facilities	3,500,000
<b>Town of Saguache</b>	Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities	1,500,000
<b>County total</b>		<b>\$ 11,770,000</b>
<b>TOTAL</b>		<b>\$ 74,359,510</b>

**Project Priority/Fundable List\*\***

<b>County/Entity</b>	<b>Description</b>	<b>Project cost</b>
<b>La Jara - Priority 5</b> (The PWS is beyond the useful/design life and is in need of equipment replacement, rehabilitation or repair, in order to maintain compliance or further the public health protection goals of the SDWA.) Loan Amt: \$729,000.	Improvement/Expansion of Water Treatment Facility; Construction/Rehab of Distribution/Transmission Lines; Water Storage Facilities	\$ 729,000
<b>Center - Priority 5</b> (The PWS is beyond the useful/design life and is in need of equipment replacement, rehabilitation or repair, in order to maintain compliance or further the public health protection goals of the SDWA. Loan Amt: \$1,103,000	Expansion/Improvement of Water Treatment Facilities; Water Storage Facilities; Water Supply Facilities, Construction/Rehabilitation of Distribution/Transmission Lines; Water Meters	1,603,000
<b>TOTAL</b>		<b>\$ 2,332,000</b>

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**Table P-2 cont.**

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**Source:** Colorado Department of Public Health & Environment, Water Quality Control Division, *Drinking Water Revolving Fund Intended Use Plan 2013*.

<http://www.colorado.gov/cs/Satellite/CDPHE-WQ/CBON/1251609894825>

\* States are required to develop a comprehensive priority list of eligible projects for funding and to identify projects that are projected to receive funding. In determining funding priority, states must ensure, to the maximum extent practical, that priority for the use of funds be given to projects that: 1) address the most serious risks to human health; 2) are necessary to ensure compliance under SDWA; and 3) assist systems with the greatest financial need, on a per household basis. Projects that are primarily intended to serve future growth are not eligible.

\*\* Project Priority / Fundable List is a list of projects that have had a completed eligibility assessment and are eligible to receive or have recently received a loan from the Drinking Water Revolving Fund.

**Table P-2A**

**Colorado Water Pollution Control Revolving Fund Project List, 2013**

<b>Project Eligibility List*</b>		<b>Project cost</b>
<b>County/Entity</b>	<b>Description</b>	
<b><u>Alamosa</u></b>		
<b>Mosca</b>	New Wastewater Treatment Plant; Improvement /Expansion of Wastewater Treatment Facilities; Connect to Existing Facility; Collection System/Interceptor Construction or Rehab; Eliminate ISDS	\$ 729,000
<b>East Alamosa WSD</b>	Collection System and/or Interceptor Construction or Rehab	383,168
<b>Hooper</b>	New Wastewater Treatment Plant; Eliminate ISDS	1,000,000
	<b>County total</b>	\$ 2,112,168
<b><u>Conejos</u></b>		
<b>La Jara</b>	New Wastewater Treatment Plant; Improvement/Expansion of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation	\$ 1,800,000
<b>La Jara</b>	Stormwater Project	1,000,000
<b>Manassa</b>	New Wastewater Treatment Plant; Improvement/New Biosolids Handling Facility; Improvement/Expansion of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation	7,200,000
<b>Romeo</b>	Improvement/New Biosolids Handling Facility; Collection System and/or Interceptor Construction or Rehab	250,000
<b>Antonito</b>	Improvement/Expansion of Wastewater Treatment Facilities	242,000
	<b>County total</b>	\$ 10,492,000
<b><u>Costilla</u></b>		
<b>Blanca</b>	New Wastewater Treatment Plant; Improvement/Expansion of Wastewater Treatment Facilities; Collection System/Interceptor Construction/Rehab; Green Infrastructure, Water Efficiency Improvements, Energy Efficiency Improvements or Environmentally Innovative Projects	\$ 2,000,000
<b>Costilla County WSD</b>	Improvement/Expansion of Wastewater Treatment Facilities; Collection System/Interceptor Construction or Rehab	500,000
<b>San Luis WSD</b>	Improvement / Expansion of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehab	400,000
<b>San Luis WSD</b>	Improvement / Expansion of Wastewater Treatment Facilities; Green Infrastructure, Water Efficiency Improvements, Energy Efficiency Improvements or Environmentally Innovative Projects Interceptor Construction or Rehab	200,000
	<b>County total</b>	\$ 3,100,000
<b><u>Mineral</u></b>		
<b>City of Creede</b>	Improvement / Expansion of Wastewater Treatment Facilities; Improvement/New Biosolids Handling Facility; Green Infrastructure	\$ 1,650,000
	<b>County total</b>	\$ 1,650,000

Table P-2A continued on next page

**Table P-2A cont.  
Project Eligibility List\***

<b>County/Entity</b>	<b>Description</b>	<b>Project cost</b>
<b>Rio Grande</b>		
<b>Del Norte</b>	New Wastewater Treatment Plant; Improvement/Expansion of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehabilitation	\$ 1,500,000
<b>Monte Vista</b>	Improvement / Expansion of Wastewater Treatment Facilities; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehab	\$ 9,500,000
<b>Monte Vista</b>	Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehab	\$ 3,761,300
<b>Monte Vista</b>	Stormwater Project	\$ 12,808,000
<b>Rio Grande County (Alpine Village)</b>	Collection System and/or Interceptor Construction or Rehab; Eliminate ISDS	\$ 9,194,357
<b>South Fork WSD</b>	Improvement / Expansion of Wastewater Treatment Facilities; Green Infrastructure, Water Efficiency Improvements, Energy Efficiency Improvements or Environmentally Innovative Projects	1,250,000
<b>County total</b>		<b>\$ 38,013,657</b>
<b>Saguache</b>		
<b>Baca Grande WSD</b>	Improvement/Expansion of Wastewater Treatment Facilities; Collection System/Interceptor Construction or Rehab; Green Infrastructure, Water Efficiency Improvements, Energy Efficiency Improvements or Environmentally Innovative Projects	\$ 2,000,000
<b>Center Sanitation District</b>	Improvement/New Biosolids Handling Facility; Improvement/Expansion of Wastewater Treatment Facilities; Collection System/Interceptor Construction/Rehabilitation	300,000
<b>Center Sanitation District</b>	Stormwater Project	100,000
<b>Crestone</b>	Stormwater Project	675,000
<b>Moffat</b>	New Wastewater Treatment Plant; Collection System and/or Interceptor Construction or Rehab; Eliminate ISDS	500,000
<b>Town of Saguache</b>	Improvement/Expansion of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction or Rehab; Green Infrastructure, Water Efficiency Improvements, Energy Efficiency Improvements or Environmentally Innovative Projects	1,200,000
<b>County total</b>		<b>\$ 4,775,000</b>
<b>TOTAL</b>		<b>\$ 60,142,825</b>

**Projected Loan List\*\***

<b>County/Entity</b>	<b>Description</b>	<b>Project cost</b>
<b>La Jara</b>	New Wastewater Treatment Plant; Improvement/Expansions of Wastewater Treatment Facilities; Collection System and/or Interceptor Construction/Rehab	\$ 1,800,000
<b>Monte Vista</b>	Improvement/Expansion of Wastewater Treatment Facilities; Consolidation of Wastewater Treatment Facilities; Collection System and/or Interceptor construction/Rehab	\$ 2,000,000
<b>TOTAL</b>		<b>\$ 3,800,000</b>

Table P-2A continued on next page

**Table P-2A cont.**

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**Source:** Colorado Department of Public Health & Environment, Water Quality Control Division, *Water Pollution Control Revolving Fund Intended Use Plan 2013*.

<http://www.colorado.gov/cs/Satellite/CDPHE-WQ/CBON/1251596793649>

\* States are required to develop a comprehensive list of projects which are eligible for funding and to identify projects that will receive funding. The list shows the 20-year construction needs for all identified eligible water quality projects including point source, non-point source (NPS), stormwater, and source water assessment projects (SWAP).

\*\* The Projected Loan List is a list identifying projects likely to be funded with WPCRF loans in 2013 and projects previously funded with the WPCRF and currently in construction.

**Table P-3**

**San Luis Valley Solid Waste Services, Landfills, & Recycling, 2013**

**San Luis Valley Regional Landfill**, 719 852–3810, 6 miles west of Monte Vista (Hwy 160) - [www.slvlandfill.com](http://www.slvlandfill.com)

**Acres:** 50

**Area Served:** Open to all six San Luis Valley counties

**Annual Volume:** 98,240 cubic yards in 2011\*

**Fees:**

Household	\$4.35/cu.yrd.	Construction debris	\$4.35/ cu.yrd.
Barrels & trash cans	\$2.10 ea.	Carload	\$5.25 ea.
Organic	\$2.15/ cu.yrd.	Tires: car/pick-up	\$3.15 ea.
Dead animals, small	\$3.15 ea.	Tires: truck	\$10.50 ea.
Dead animals, large	\$15.75 ea.	Tires: tractor	\$21.00 ea.
Tree stumps	\$10.50 - \$26.25 ea.	Immediate cover	\$78.75 - 24-hr notice
Commercial hauler:			
Compacted	\$17.10/ton	Uncompacted	\$22.60/ton

**Transfer Stations**

- Fort Garland
- San Luis

**Saguache County Landfill & Recycling Center**, 719 655-2554, 10 miles east of Saguache (CR 55)

**Acres:** 35

**Area Served:** Saguache County residents receive favorable rates

**Annual Volume:** 11,146 cubic yards in 2011.\*

<b>Fees</b> (selected items):	<u>County residents</u>	<u>Outside of County</u>
Cubic yard, loose or compacted	\$5 min. \$1.82/100 lbs over 260 lbs.	\$5.46/100 lbs.
Tires	\$2.50-\$21.85	Extra charge

**Mineral County Landfill**

**Acres:** 8

**Area Served:** Creede and Mineral County

**Annual Volume:** 2,286 cubic tons in 2011\*

Fees (selected items):

**Waste Disposal Services**

- GT Trash Service, 719 672-3601, San Luis
- M & M Trash & Roll-Off Service, Valleywide
- Silver Mountain Disposal, 719 843-5354, Manassa
- Waste Management, 888 964-9740, Monte Vista
- MDS, 719-658-3060, Creede
- BDS Disposal, Del Norte

**Recycling**

**Alamosa Recycling Center**, Coordinator at 719 937-8358 or Public Works at 719 589-6631, 113 Old Airport Road, Alamosa

Items accepted:

Aluminum cans	Newspaper	Office Paper
Magazines	Cardboard	PETE #1 Plastic
Steel Cans	Aluminum	HDPE #2 Colored Plastic
Yard Waste	HDPE #2 Natural Plastic	

Oil: accepted at 1410 Independence Way

More info at: <http://www.cityofalamosa.org/Documents/recycling%20info%202-11-13.pdf>

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**Table P-3 cont.**

**Recycle Creede**, 719 658-2020, 1412 Rio Grande Ave., Creede [www.recyclecreede.org](http://www.recyclecreede.org)

Items accepted:

Bottles	Cans	Corrugated cardboard
Paper	Plastic containers	

**Saguache County Landfill & Recycling Center** (see information above)

Items accepted:

Newspapers	Magazines	Glass
Tin cans	Aluminum cans	Plastic
Cardboard	Auto batteries	Pressed fiber boxes
Non-ferrous metal	White paper	Colored paper
Computer paper	Slick paper	Junk mail
Oil & anti-freeze		

More info at: <http://saguachecounty.net/images/stories/docs/landfill/recyclables.pdf>

**WSB eRecyclers**, 719 589-8940, 21 Craft Drive, Alamosa [www.wsberecyclers.com](http://www.wsberecyclers.com)

Serving the entire San Luis Valley

Items accepted: all electronics

List at: <http://wsberecyclers.com/index.php/component/content/article/2-uncategorised/3-recycling-list.html>

**Source:** Landfill and waste disposal information compiled by staff at San Luis Valley Regional Landfill, March 2013.

\*Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division, Solid Waste User Fee and Volume Report, 2011.

**Table P-4**

**Solid Waste Generation, Recovery, and Disposal - United States, 1980-2009**

Item	1980		1990		2000		2009	
	Millions of Tons	Per Person Per Day (lbs.)	Millions of Tons	Per Person Per Day (lbs.)	Millions of Tons	Per Person Per Day (lbs.)	Millions of Tons	Per Person Per Day (lbs.)
Waste generated	151.6	3.7	208.3	4.6	242.5	4.7	243.0	4.3
Materials recovered	14.5	0.4	33.2	0.7	69.5	1.4	82.0	1.5
Combustion for energy recovery	2.7	0.1	29.7	0.7	33.7	0.7	29.0	0.5
Discards to landfill/other disposal	134.4	3.2	145.3	3.2	139.4	2.7	131.9	2.4

**Selected Materials in Solid Waste Generation**

Material	1980		1990		2000		2009	
	Millions of Tons	% of Waste Generated	Millions of Tons	% of Waste Generated	Millions of Tons	% of Waste Generated	Millions of Tons	% of Waste Generated
Paper and paperboard	55.2	36.4	72.7	34.9	87.7	36.2	68.4	28.2
Glass	15.1	10.0	13.1	6.3	12.8	5.3	11.8	4.8
Metals	12.6	10.2	12.6	7.9	14.1	7.8	15.6	8.6
Plastics	6.8	4.5	17.1	8.2	25.5	10.5	29.8	12.3
Food wastes	13.0	8.6	20.8	11.5	26.8	12.3	34.3	14.1
Yard wastes	27.5	18.1	35.0	16.8	30.5	12.6	33.2	13.7

**Source:** U.S. Census Bureau, *Statistical Abstract of the United States: 2012*. Table 377 - Municipal Solid Waste Generations, Materials Recovery, Combustion with Energy Recovery, and Discards: 1980 to 2009. Table 378 - Generation and Recovery of Selected Material in Municipal Solid Waste: 1908 to 2009.

<http://www.census.gov/compendia/statab/2012/tables/12s0377.pdf>

**Table P-4A**

**Solid Waste Generation, Disposal, and Diversion - Colorado, 2007-2011**

**Total Solid Waste\* (tons)**

Item	2007	2008	2009	2010	2011
Total solid waste generated	11,777,170	11,199,156	10,183,620	11,287,699	10,405,341
Total solid waste diverted	3,358,449	3,939,258	3,696,793	4,567,853	4,080,006
Total solid waste disposed	8,418,721	7,259,898	6,486,827	6,719,846	6,325,335
Total diversion rate	28.5%	35.2%	36.3%	40.5%	39.2%

**Municipal Solid Waste - residential & commercial (tons)**

Item	2007	2008	2009	2010	2011
Total MSW generated	10,091,301	8,487,943	7,748,229	8,245,084	8,057,322
Total MSW diverted	1,672,580	1,662,983	1,518,841	1,674,566	1,918,570
Total MSW disposed	8,418,721	6,824,960	6,229,388	6,570,518	6,138,752

**MSW diverted**

Metals (ferrous scrap)	1,009,572	1,064,845	897,106	1,014,449	1,145,369
Metals (containers: aluminum, steel, tin cans)	20,121	26,940	23,001	28,809	30,604
Paper	291,044	209,430	208,167	179,355	187,720
Cardboard	180,540	157,560	156,776	164,319	197,536
Glass	84,824	20,142	22,309	19,133	21,009
Plastics (1-7)	9,872	11,912	14,396	14,495	23,916
Organic materials (yard, wood waste)	3,069	40,678	77,734	80,438	95,103
Compost (food, yard waste)	28,795	70,041	66,896	106,027	172,710
Electronics	6,809	8,083	7,876	9,818	12,304
Tires	37,618	40,807	41,823	50,465	20,442
Other (batteries, paint, cooking oil, textiles, etc.)	1,039	12,545	2,757	7,258	2,696
Single stream/Mixed recyclables					9,611
MSW diversion rate	16.6%	19.6%	19.6%	20.3%	23.8%

**Industrial material diverted (tons)**

Item	2007	2008	2009	2010	2011
Aggregates (concrete & asphalt)	1,333,931	1,820,195	1,539,745	2,355,681	1,386,938
Coal combustion products					264,212
Organic materials (industrial & agricultural)	331,573	404,193	584,575	486,196	442,119
Construction & demolition materials	19,304	24,471	26,792	26,357	17,423
Oil	1,061	27,416	26,841	25,053	28,486
Tires (energy recovery)					22,258
Total industrial material diverted	1,685,869	2,276,275	2,177,953	2,893,287	2,161,436

\*Total solid waste includes municipal solid waste (MSW) and industrial waste.

Source: Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division, *Annual Solid Waste Diversion Totals 2007-2011*.

<http://www.colorado.gov/cs/Satellite/CDPHE-HM/CBON/1251616360802>

**Table P-4B**

**Landfill Solid Waste Volume, San Luis Valley - 2007-2010**

**Solid Waste Volume** (cubic yards)

<b>Landfill Site</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
Mineral County	0*	568	2,273	2,332	2,286
San Luis Valley Regional Landfill	110,878	101,841	97,155	103,355	98,246
Saguache County Landfill	12,368	11,454	12,556	15,265	11,146
San Luis Valley Reported Total	123,246	113,863	111,984	120,952	111,678
Colorado	28,095,314	24,121,664	21,582,083	22,343,081	21,060,764

\*No volume reported.

**Source:** Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division, *Solid Waste User Fee and Volume Reports, 2007-2011*.

<http://www.colorado.gov/cs/Satellite/CDPHE-HM/CBON/1251616360802>

Table P-5

**Xcel Energy - Electric Rates, 2012**

**Electric Rates - Selected Schedules, Oct. 15, 2012**

Communities served: Alamosa, Antonito, Blanca, Bonanza, Bountiful, Chama, Conejos, Del Norte, Fort Garland, Guadalupe, Homelake, Hooper, Herea, La Jara, La Valley, Las Mesita, Lobatos, Manassa, Moffat, Monte Vista, Mosca, Ortiz, Platoro, Romeo, Saguache, San Antonio, Sanford, San Francisco, San Luis, San Pablo, and Sargent.

<u>Rate schedule</u>	<u>Charge type</u>	<u>Billing units</u>	<u>Rate \$</u>	
<b>Residential</b>	Service & facility	per meter/month	6.75	
	Energy	kWh	0.04604	
	Cost Adjustments*:			
	Purchased Capacity	kWh	0.00693	
	Demand-Side Mgmt	kWh	0.00131	
	Transmission	kWh	0.00004	
	General Rate Schedule Adj.	14.05% of base chg.	-	
	Electric Commodity Adj.	kWh	0.03212	
	Renewable Energy Std. Adj.	2% of bill before taxes & fees	-	
	<b>Residential Demand</b> (25 kW or higher)	Service & facility	per meter/month	12.25
Demand - Summer		kW	8.57	
Demand - Winter		kW	6.59	
Energy		kWh	0.01741	
Cost Adjustments*:				
Purchased Capacity		kWh/month	0.77	
Demand-Side Mgmt		kWh/month	0.14	
Transmission		kWh/month	0.00	
General Rate Schedule Adj.		14.05% of base chg.	-	
Electric Commodity Adj.		kWh	0.03212	
Renewable Energy Std. Adj.	2% of bill before taxes & fees	-		
<b>Commercial</b> (less than 25 kW)	Service & facility	per meter/month	10.75	
	Energy - Summer	kWh	0.06450	
	Energy - Winter	kWh	0.03920	
	Cost Adjustments*:			
	Purchased Capacity	kWh	0.00685	
	Demand-Side Mgmt	kWh	0.00129	
	Transmission	kWh	0.00004	
	General Rate Schedule Adj.	14.05% of base chg.	-	
	Electric Commodity Adj.	kWh	0.03212	
	Renewable Energy Std. Adj.	2% of bill before taxes & fees	-	
<b>Primary generation</b>	Service & facility	per meter/month	305.00	
	Distribution demand	kWh/month	3.98	
	Gen. & Trans. Demand-Summer	kWh/month	10.04	
	Gen. & Trans. Demand-Winter	kWh/month	7.03	
	Energy	kWh	0.00461	
	Cost Adjustments*:			
	Purchased Capacity	kWh/month	2.15	
	Demand-Side Mgmt	kWh/month	0.41	
	Transmission	kWh/month	0.01	
	General Rate Schedule Adj.	14.05% of base chg.	-	
Electric Commodity Adj.:				
Time-of-use off-peak	kWh	0.02713		
Time-of-use on-peak	kWh	0.03798		
Renewable Energy Std. Adj.	2% of bill before taxes & fees	-		

**Source:** Xcel Energy, *Colorado Residential Electric and Natural Gas Rate Schedule Summaries* and *Colorado Commercial & Industrial Gas & Electric Rate Schedule Summaries*, October 2012.

**kW** = Kilowatt; a measurement of energy equal to 1,000 watts.

**kWh** = Kilowatt-hour; a unit of energy equal to 1 kW of power expended for one hour.

<http://xcelenergy.com/staticfiles/xcel/Regulatory/COResRates.pdf>

<http://xcelenergy.com/staticfiles/xcel/Regulatory/COBusRates.pdf>

## Table P-5A

# Xcel Energy - Natural Gas Rates, 2012

### Natural Gas Rates - Selected Schedules, Oct. 15, 2012

**Communities served:** Alamosa, Antonito, Capulin, Conejos, Del Norte, Guadalupe, La Jara, Manassa, Monte Vista, Romeo, Saguache, Sanford, and Sargent.

<u>Rate schedule</u>	<u>Charge type</u>	<u>Billing units</u>	<u>Rate \$</u>
<b>Residential</b>	Base charges:		
	Service & facility	per meter/month	11.15
	Usage	Therm	0.08440
	Cost Adjustments:		
	Demand-Side Mgmt	7.05%/month on base	-
	General Rate Schedule	0%/month on base	-
	Gas	Therm	0.35587
	Pipeline System Integrity	Therm	0.01688
<b>Commercial - Small</b> (less than 50,000 therms)	Base charges:		
	Service & facility	per meter/month	32.08
	Usage	Therm	0.116760
	Cost Adjustments:		
	Demand-Side Mgmt	3.94%/month on base	-
	Gas Transportation Svc.	.30%/month on base	-
	General Rate Schedule	0%/month on base	-
	Gas	Therm	0.43829
	Pipeline System Integrity	Therm	0.01688
<b>Commercial</b>	Base charges:		
	Service & facility	per meter/month	65.12
	Usage:		
	Peak Day	Decatherm	6.75
	All gas used per Dth	Decatherm	0.18540
	Cost Adjustments:		
	Demand-Side Mgmt	3.94%/month on base	-
Gas Transportation Svc.	.30%/month on base	-	
General Rate Schedule	0%/month on base	-	
	Gas	Decatherm	4.2538
	Pipeline System Integrity	Decatherm	0.16876

**Source:** Xcel Energy, *Colorado Residential Electric and Natural Gas Rate Schedule Summaries* and *Colorado Commercial & Industrial Gas & Electric Rate Schedule Summaries*.

Therm = A unit of heat energy equal to 100,000 British thermal units (BTU). It is approximately the energy equivalent of burning 100 cubic feet (often referred to as 1 CCF) of natural gas.

Decatherm = Ten therms.

<http://xcelenergy.com/staticfiles/xcel/Regulatory/COResRates.pdf>

<http://xcelenergy.com/staticfiles/xcel/Regulatory/COBusRates.pdf>

**Table P-6**  
**San Luis Valley Rural Electric - Rate Schedule, 2013**

Effective January 1, 2013

Rate Name	Charge Type	Total \$
A-Single Phase	Wires & Maintenance Charge	\$27.50
	Energy Charge/kWh	0.128
A-Single Phase Time of Day	Wires & Maintenance Charge	31.50
	On-Peak (per kWh)	0.144
	Off-Peak (per kWh)	0.055
A-Single Phase Prepaid Metering	Wires & Maintenance Charge	30.00
	Energy Charge	0.128
B-Three Phase	Wires & Maintenance Charge	37.50
	Energy Charge/ kWh	0.119
B-Three Phase Time of Day	Wires & Maintenance Charge	42.50
	On-Peak (per kWh)	0.144
	Off-Peak (per kWh)	0.055
I-Irrigation Block Rate: 150 kWh/HP/Mo	Annual HP Charge (billed @ \$2/month)	24.00
	Annual Following HP Charge (billed @ \$1/month)	12.00
	Energy Charge (1st Block)	0.124
	Energy Charge (2nd Block)	0.107
	Energy Charge (3rd Block)	0.054
I-Irrigation (Demand) Block Rate: 200 kWh/Mo	Annual Demand Charge (billed @ \$2/month)	24.00
	Energy Charge (1st Block)	0.124
	Energy Charge (2nd Block)	0.107
	Energy Charge (3rd Block)	0.054
I-Irrigation Time of Day	Annual HP Charge (billed @ \$2/month)	24.00
	On-Peak (per kWh)	0.176
	Off-Peak (per kWh)	0.051
LP-A Large Power (less than 500 kW) Rates 50, 55	Wires & Maintenance Charge	80.00
	Demand Charge	6.15
	Energy Charge (First 200 kWh/Billing kW)	0.0994
	Energy Charge (Next 200 kWh/Billing kW)	0.0889
	Energy Charge (Over 400 kWh/Billing kW)	0.066
LP-A Time of Day	Wires & Maintenance Charge	80.00
	Billing Demand Charge	6.15
	On-Peak Energy Charge	0.1104
	Off-Peak Energy Charge	0.066
LP-B Large Power Greater than 1,000 kW Secondary Metered Rates 51	Wires & Maintenance Charge	325.00
	Demand Charge	7.00
	Energy Charge (First 200 kWh/Billing kW)	0.0894
	Energy Charge (Next 200 kWh/Billing kW)	0.0859
	Energy Charge (Over 400 kWh/Billing kW)	0.066
LP-B Large Power Greater than 1,000 kW Primary Metered Rates 52, 53	Wires & Maintenance Charge	325.00
	Demand Charge	6.79
	Energy Charge (First 200 kWh/Billing kW)	0.0867
	Energy Charge (Next 200 kWh/Billing kW)	0.0833
	Energy Charge (Over 400 kWh/Billing kW)	0.064
YL Yard Light	Non-Metered	10.89
	Extra Charge for first additional 150 Ft or next 100 Ft.	7.50
	Metered	5.25
Renewable Resource Surcharge	Per 100 kWh block, per month	0.40

**Source:** SVLREC Rates and Rate Classes, Fees.

[www.slvrec.rates.htm](http://www.slvrec.rates.htm)

On Peak - 7 a.m. to 12:30 p.m., and 4:30 p.m. to 11 p.m. Off Peak - 11 p.m. to 7 a.m., and 12:30 p.m. to 4:30 p.m.

kW = kilowatt: measurement of energy equal to 1,000 watts. kWh = kilowatt-hour: measurement of energy equal to 1,000 watt-hours.

**Table P-7**

**Center Municipal - Electric and Natural Gas Rates, 2012**

<u>Rate schedule</u>	<u>Charge type</u>	<u>Billing units</u>	<u>Base rate</u>
<b>Electric - Residential</b>	Energy	Per kWh	\$0.0748
Fuel cost adjustment			0
<b>Electric - Commercial</b>	Energy	Per kWh	\$0.0748
Fuel cost adjustment			0
<b>Gas- Residential</b>	Energy	Per CCF (100 Cubic Feet)	\$1.00
Fuel cost adjustment			0
<b>Gas - Commercial</b>	Energy	Per CCF	\$1.00
Fuel cost adjustment			0

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**Source:** Town of Center, Utility Department, December 2012.

**kW** = kilowatt: measurement of energy equal to 1,000 watts.

**kWh** = kilowatt-hour: unit of energy equivalent to 1 kW of power expended for 1 hour of time.