

Land Application of Biosolids

Explanation of Cost & Time

- Biosolids applied in 2020 by City Staff
 - **221 loads @ 3,000 gallons/load**
 - 663,000 gallons of biosolids land applied
 - 239,703 dry lbs. or 120 dry tons land applied
 - **31 days Land Applying Biosolids**
 - **8 loads/day max** (depends on field conditions and the unknown)

- Cost for City of Aurora to Land Apply Biosolids in 2020 (6 miles from field)
 - Fuel in sludge truck/day = \$75 (\$3.00/gal @ 25 gallon/day)
 - Fuel in sludge truck/year = \$2,325 (price for 31 days total)
 - Fuel in tractor/day = \$45 (\$3.00/gal @ 15 gallon/day)
 - Fuel in tractor/year = \$1,395 (price for 31 days total)
 - Wages/year = \$4,960 (\$20/hr. for 31 days)
 - **31 days Land Applying Biosolids**
 - Total = **\$8680/year** (plus unknown wear and tear; tires, airlines, hydraulic lines, Breakdowns, etc.)

- Cost for Local Hauler to Land Apply Biosolids (6 miles from field)
 - **195 loads @ 3400 gallons/load**
 - 663,000 gallons of Biosolids Land Applied
 - 3 trucks @ 8 loads/day = 24 loads/day
 - **9.2 days Land Applying Biosolids**
 - **@ \$95/load and 195 loads/year = \$18,525/year**

- **Cost for City of Aurora to Land Apply Biosolids (15 miles from field)**
 - 4 loads/day max @ 3,000 gallon/load for 221 loads total
 - 663,000 gallons of Biosolids Land Applied
 - **55 days Land Applying Biosolids (minimum)**
 - \$4,125/year fuel in truck
 - \$2,475/year fuel in tractor
 - \$8,800/year wages @ \$20/hr.
 - Total = **\$15,400/year** (plus unknown wear and tear; tires, airlines, hydraulic lines, breakdowns, etc.)

- **Cost for Local Hauler to Land Apply Biosolids (15 miles from field)**
 - 3 trucks @ 4 loads/day @ 3,400 gallon/load for 195 loads
 - 663,000 gallons of Biosolids Land Applied
 - 195 loads/12 loads-day = **16.25 days Land Applying Biosolids**
 - **@ \$110/load and 195 loads = \$21,450/year**