

ECONOMIC COST DATA

COMPOSTING FACILITY (317)

OKLAHOMA

**Cost Data**

**Typical Implementation Scenario**

317.1 Composting Facility

This is a treatment component of an agricultural management system for the biological stabilization of organic material.

Part of a animal waste management system, this includes a building designed and installed from approved standard drawings or a PE design used for composting poultry litter. Unit costs include all labor and materials needed to build the structure.

The typical facility is designed for 85,000 broilers consisting of 9 primary bins on a 2345 sq ft concrete pad at a total cost of \$17,939.25

Geographic Area: Statewide  
 Unit for Cost Estimate: SquareFoot  
 Practice Life (Years): 15  
 Discount Rate (%/Year): 5%

Data Source: 2006-2007 actual cost data

|  | <u>Cost/Unit</u> |
|--|------------------|
| <b>Materials</b>   | <b>\$7.95</b>    |
| Total cost estimate for complete composting facility and all associated components, includes installation and labor. |                  |
| <b>Equipment/Installation</b>  | <b>\$0.00</b>    |
| (Included in Materials Costs)  |                  |
| <b>Labor</b>   | <b>\$0.00</b>    |
| (Included in Materials Costs)  |                  |
| <b>Mobilization</b>  | <b>\$0.00</b>    |
| Included in Materials Cost   |                  |
| <b>Operation &amp; Maintenance</b>   | <b>\$0.00</b>    |
| 2% of Installation Costs   |                  |
| <b>Acquisition of Technical Knowledge</b>  | <b>\$0.00</b>    |
| N/A  |                  |
| <b>Forgone Income</b>  | <b>\$0.00</b>    |
| N/A  |                  |
| <b>Risk</b>  | <b>\$0.00</b>    |
| N/A  |                  |
| <b>Administration &amp; Permit Costs</b>   | <b>\$0.38</b>    |
| State Department of Agriculture permit to operate \$600 (\$200 every 5 years, practice life 15yrs).                  |                  |
| <b>Total Cost Estimate:</b>  | <b>\$8.33</b>    |

ECONOMIC COST DATA

COMPOSTING FACILITY (317)

OKLAHOMA

Cost Data

| <b>Typical Implementation Scenario</b>   |            |                  |
|--|------------|------------------|
| <b>317.2 Compost/Dry Waste Storage Structure</b>   |            |                  |
| This is a treatment component of an agricultural management system for the biological stabilization of organic material.   |            |                  |
| Part of a animal waste management system, this includes a building designed and installed from approved standard drawings or a PE design used for the temporary storage of dry poultry waste and to compost poultry. Dry waste is the mix of poultry litter and manure removed from a poultry house after a single flock has been removed, otherwise known as cake. For breeder operations, dry waste will be that mix of litter and manure resulting from a complete cleanout. The structure will store one cake-out from all houses (broiler, pullet, and/or turkey) or one cleanout of all houses in a breeder operation plus the appropriate compost volume. . Unit costs include all labor and materials needed to build the structure. |            |                  |
| The typical structure is an enclosed building 40' 4" wide, 65' long (2,621.65 SF) and 5.0' deep with composting bins for 85,000 broilers at a total cost of \$16,313.82  |            |                  |
| <b>Geographic Area:</b>  | Statewide  |                  |
| <b>Unit for Cost Estimate:</b>   | SquareFoot |                  |
| <b>Practice Life (Years):</b>  | 15         |                  |
| <b>Discount Rate (%/Year):</b>   | 5%         |                  |
| <b>Data Source: 2006-2007 actual cost data</b>   |            | <b>Cost/Unit</b> |
| <b>Materials</b>   |            | \$6.89           |
| Total cost estimate for complete composting facility and all associated components, includes installation and labor.   |            |                  |
| <b>Equipment/Installation</b>  |            | \$0.00           |
| (Included in Materials Costs)  |            |                  |
| <b>Labor</b>   |            | \$0.00           |
| (Included in Material Costs)   |            |                  |
| <b>Mobilization</b>  |            | \$0.00           |
| Included in Materials Cost   |            |                  |
| <b>Operation &amp; Maintenance</b>   |            | \$0.00           |
| 2% of Installation Costs   |            |                  |
| <b>Acquisition of Technical Knowledge</b>  |            | \$0.00           |
| N/A  |            |                  |
| <b>Forgone Income</b>  |            | \$0.00           |
| N/A  |            |                  |
| <b>Risk</b>  |            | \$0.00           |
| N/A  |            |                  |
| <b>Administration &amp; Permit Costs</b>   |            | \$0.19           |
| State Department of Agriculture permit to operate \$600 (\$200 every 5 years, practice life 15yrs).  |            |                  |
| <b>Total Cost Estimate:</b>  |            | \$7.08           |