Costs Associated with Development and Implementation of Comprehensive Nutrient Management Plans

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What is a CNMP?
Livestock Operations Potentially Needing CNMPS (257,201 farms)
Distribution of Operations Needing CNMPs

- Milk cows: 30%
- Pastured livestock types: 24%
- Small operations with confined livestock types: 17%
- Confined heifers/veal: 2%
- Layers/pullets: 2%
- Broilers: 6%
- Turkeys: 1%
- Swine: 13%
- Fattened cattle: 4%
- Specialty livestock: 1%
Average Development Cost (Technical Assistance) (149 hours per CNMP)

- Nutrient management: 39 hours, 26%
- Land treatment: 18 hours, 12%
- Manure & wastewater handling & storage: 92 hours, 62%
Annual Average Implementation Cost, by CNMP Element

- Manure & wastewater handling & storage: $2,509 (37%)
- Recordkeeping: $117 (2%)
- Nutrient management: $1,043 (15%)
- Off-farm export: $1,358 (20%)
- Land treatment: $1,721 (26%)
Annual Average Implementation Costs, by Livestock Type

- Small-confined
- Pastured livestock
- Specialty livestock
- Broilers
- Confined heifers/veal
- Milk cows
- Swine
- Layers/pullets
- Turkeys
- Fattened cattle

Annual average for all operations = $6,748

- Nutrient management
- Land treatment
- Off-farm export
- Manure & wastewater handling & storage
- Recordkeeping
## CNMP Implementation Costs by Size of Operation

<table>
<thead>
<tr>
<th>Operation size</th>
<th>Number of operations</th>
<th>Percent of operations needing CNMPs</th>
<th>Average Annual cost per operation</th>
<th>Average annual per animal unit cost</th>
<th>Percent CNMP implementation costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>198,018</td>
<td>77</td>
<td>$3,775</td>
<td>$47</td>
<td>43</td>
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<tr>
<td>Medium</td>
<td>39,437</td>
<td>15</td>
<td>$9,810</td>
<td>$39</td>
<td>22</td>
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<tr>
<td>Large</td>
<td>19,746</td>
<td>8</td>
<td>$30,465</td>
<td>$21</td>
<td>35</td>
</tr>
<tr>
<td>Total</td>
<td>257,201</td>
<td>100</td>
<td>$6,748</td>
<td>$32</td>
<td>100</td>
</tr>
</tbody>
</table>
Annual Average Implementation Costs, by Region

Annual average for all operations = $6,748

- Lake
- Delta
- Corn Belt
- Northern Plains
- Southeast
- Southern Plains
- Appalachian
- Northeast
- Mountain
- Pacific

Legend:
- Nutrient management
- Land treatment
- Off-farm export
- Manure & wastewater handling & storage
- Recordkeeping
Counties With Excess Manure After CNMPs are Implemented
Thank You

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