Measuring Progress of the Iowa Nutrient Reduction Strategy

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The Iowa Nutrient Reduction Strategy

<table>
<thead>
<tr>
<th>Estimated % of Loads and Load Reduction</th>
<th>Nitrogen</th>
<th>Phosphorus</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of Total Load from Point Sources</td>
<td>7</td>
<td>21</td>
</tr>
<tr>
<td>% of Total Load from Non-point Sources</td>
<td>93</td>
<td>79</td>
</tr>
<tr>
<td>% of Overall Load Reduction from Point Sources to meet 45% Total Load Reduction Goal</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>% of Overall Load Reduction from Nonpoint Sources to meet 45% Total Load Reduction Goal</td>
<td>41</td>
<td>29</td>
</tr>
</tbody>
</table>

www.epa.gov
1. History, Context, and Scope
2. Current indicators
3. Evaluation of indicators
4. Watershed focus
The Measurement Pilot Project

- How much progress has been made toward the goal?
- How do we know when we reach the goal?
The Measurement Pilot Project

**Timeline**

- **Nov 2012**: First Draft of NRS for Public Comment
- **May 2013**: Release of NRS
- **2014**: First Annual Progress Report, 19 pages
- **2015**: Second Annual Report, 37 pages
The Measurement Pilot Project

Nov 2012
First Draft of NRS for Public Comment

2014
First Annual Progress Report, 19 pages

2015
Second Annual Report, 37 pages

2016
Third Annual Report, 44 pages

May 2013
Release of NRS

2015
Second Annual Report, 37 pages

2016
Third Annual Report, 44 pages

2017
Fourth Annual Report, 76 pages
1. History, Context, and Scope
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4. Watershed focus
Measured Indicators

- Funding
- Staff
- Point source permits

Measured Indicators

- Outreach
- Farmer knowledge
- Farmer attitudes
Measured Indicators

- Land-use change
- In-field practices
- Edge-of-field and erosion control practices
- Addressing data gaps

Measured Indicators

- Monitoring:
  - EOF
  - Small WS
  - Medium WS
  - Large WS
- Nitrogen export
1. History, Context, and Scope
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Developing meaningful indicators

Integrating all dimensions of the Logic Model
Developing meaningful indicators

Example:
What is the relationship between outreach and adoption?
Developing meaningful indicators

Example:
What is the relationship between adoption and nutrient load?
1. History, Context, and Scope
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## Watershed Focus

Cost-Share Cover Crop Acres as Percent of Watershed’s Row Crop Acres

![Graph showing percentage of cover crop acres as a percentage of row crop acres.]

*Note for online version: Please do not cite this slide’s results in other sources, as this analysis is in its early stages.*

### 1. History, Context, and Scope

### 2. Current indicators

### 3. Evaluation of indicators

### 4. Watershed focus
Thank You

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