Managed Forage and Grazing (Extension)

V(A). Planned Program (Summary)
1. Name of the Planned Program
Managed Forage and Grazing (Extension)

V(B). Program Knowledge Area(s)
1. Program Knowledge Areas and Percentage

<table>
<thead>
<tr>
<th>KA Code</th>
<th>Knowledge Area</th>
<th>1862 % Extension</th>
<th>1890 % Extension</th>
<th>1862 % Research</th>
<th>1890 % Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>205</td>
<td>Plant Management Systems</td>
<td>50%</td>
<td></td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>307</td>
<td>Animal Management Systems</td>
<td>50%</td>
<td></td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>100%</td>
<td></td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

V(C). Planned Program (Inputs)
1. Actual amount of professional FTE/SYs expended this Program

<table>
<thead>
<tr>
<th>Year</th>
<th>Extension</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1862</td>
<td>1890</td>
</tr>
<tr>
<td>Plan</td>
<td>5.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Actual</td>
<td>5.5</td>
<td>0.0</td>
</tr>
</tbody>
</table>

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

<table>
<thead>
<tr>
<th></th>
<th>Extension</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith-Lever 3b &amp; 3c</td>
<td>1890 Extension</td>
<td>Hatch</td>
</tr>
<tr>
<td>183027</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1862 Matching</td>
<td>1890 Matching</td>
<td>1862 Matching</td>
</tr>
<tr>
<td>314450</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1862 All Other</td>
<td>1890 All Other</td>
<td>1862 All Other</td>
</tr>
<tr>
<td>14246</td>
<td>0</td>
<td>0</td>
</tr>
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</table>

V(D). Planned Program (Activity)
1. Brief description of the Activity
Curriculum will be developed and delivered to teach and facilitate adoption of the principles of management intensive grazing. A variety of learning activities will be used to deliver this curriculum, including intensive workshops with outdoor hands-on activities, major conferences, research and demonstrations, development of individualized grazing plans, newsletters, articles in popular press, web-based educational resources, and TV and media programs.

2. Brief description of the target audience
Forage and livestock producers of Ohio; Extension Educators and Natural Resource Conservation Service grassland specialists; technical service advisors and providers.
V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
<th>Target</th>
<th>Target</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>1200</td>
<td>10000</td>
<td>45</td>
<td>1000</td>
</tr>
<tr>
<td>2007</td>
<td>2500</td>
<td>66300</td>
<td>78</td>
<td>0</td>
</tr>
</tbody>
</table>

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan:</td>
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</tr>
<tr>
<td>2007:</td>
<td>0</td>
</tr>
</tbody>
</table>

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

<table>
<thead>
<tr>
<th>Year</th>
<th>Extension</th>
<th>Research</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>6</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2007</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

V(F). State Defined Outputs

Output Target
Managed Forage and Grazing (Extension)

Output #1

Output Measure
- Intensive workshops and educational presentations: Single and multiple session workshops will be delivered to teach concepts and practices on forage production, pasture management, and forages for horses. Approximately 6 to 8 workshops will be held each year in different locations throughout Ohio. These workshops often include hands-on learning activities. These workshops will be managed by the Integrated Forage Management Team of OSU Extension.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 12

Output #2

Output Measure
- Research and demonstrations: Applied research and demonstrations on forage and grazing lands management will be conducted each year. These include annual and multi-year evaluations of forage varieties for productivity and persistence in Ohio. Results and research summaries will be disseminated through the Ohio Forage Network website and through media outlets. In addition, a funded research project will be conducted in SE Ohio aimed at increasing farm profitability and productivity of grazing beef and dairy farms while maintaining minimum environmental impacts. Over the next five years we will develop new grazing management tools that will be validated on six monitor farms.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 8

Output #3

Output Measure
- Development of individualized grazing plans: Plans will be developed for approximately 30 producers annually, which will include paddock layout and design, water system development plans, seasonal forage inventory and feed budgeting management plans. This activity will be managed by the Integrated Forage Management Team of OSU Extension.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 32

Output #4

Output Measure
- Newsletter: These will be the primary methods used for written communication to out clientele concerning management of forages and grazing lands. We will produce a quarterly electronic and hardcopy newsletter that will also be posted on the web. While extension fact sheets are produced, they are no longer the primary method of delivering information. This activity will be managed by the Co-chairs the Integrated Forage Management Team of OSU Extension.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 4

Output #5

Output Measure
- Articles in popular press: Educational articles will be produced for biweekly column in Farm & Dairy magazine (All About Grazing) and approximately six articles in Ohio's Country Journal on an annual basis. In addition, results from the Ohio Forage Performance Trials will be published annually in Ohio's Country Journal. This activity will be managed by the Integrated Forage Management Team of OSU Extension.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 4

Output #6

Output Measure
- Web-based educational resources: The Integrated Forage Management Team of OSU Extension will manage, maintain, and publish new information on the Ohio Forage Network (http://forages.osu.edu). Resources available through this website include contact information for forage specialists, fact sheets and bulletins, research summaries, and software products. The quarterly newsletter produced by the team will be posted on this website.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 21

Output #7

Output Measure
- TV and media programs: Approximately 2 TV programs and 6 to 10 radio programs will be produced on an annual basis on topics related to forage and grazing lands management. This activity will be managed by members of the Integrated Forage Management Team of OSU Extension.

Year | Target | Actual
--- | --- | ---
2007 | 0 | 12
## V(G). State Defined Outcomes

<table>
<thead>
<tr>
<th>O No.</th>
<th>Outcome Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Managed grazing plans will be developed for 10,000 acres annually and improved grazing management will be adopted on 6,000 acres annually.</td>
</tr>
<tr>
<td>2</td>
<td>More Ohio forage-based farms will become economically and environmentally sustainable.</td>
</tr>
</tbody>
</table>
Managed Forage and Grazing (Extension)

Outcome #1

1. Outcome Measures
   Managed grazing plans will be developed for 10,000 acres annually and improved grazing management will be adopted on 6,000 acres annually.

2. Associated Institution Types
   • 1862 Extension

3a. Outcome Type:
   Change in Action Outcome Measure

3b. Quantitative Outcome

<table>
<thead>
<tr>
<th>Year</th>
<th>Quantitative Target</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>0</td>
<td>30</td>
</tr>
</tbody>
</table>

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
{ Forage-livestock production systems make a significant contribution to agricultural output in Ohio. There is a need for educational programs and materials to assist clientele in developing forage production and utilization systems that are profitable, environmentally sound, and socially acceptable.

What has been done
{ Twenty-four extension publications were authored or co-authored including bulletins, popular press and newsletter articles, and proceedings articles for extension clientele, and technical information was provided for 11 articles written by mass media reporters. 20,300 copies of informational bulletins were distributed.

Results
Ohio has increased the number of managed and planned grazing acres, protecting water quality, improving production. Development of the beginning grazing school curriculum is in the final review stages and will be introduced spring of 2008 at a Train the Trainer session. Since November, 2007, 5 different Forage Team members have posted information to the blog. In the Pasture Measurement Project one of the volunteers was quoted in a publication that their participation was one of the best things they have done. Over 460 producers attended educational programs offered. After one presentation over 60% indicated that they would make changes to their grazing management.

4. Associated Knowledge Areas

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<tbody>
<tr>
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<tr>
<td>205</td>
<td>Plant Management Systems</td>
</tr>
</tbody>
</table>

Outcome #2

1. Outcome Measures
   More Ohio forage-based farms will become economically and environmentally sustainable.

2. Associated Institution Types
   • 1862 Extension

3a. Outcome Type:
   Change in Condition Outcome Measure

3b. Quantitative Outcome

<table>
<thead>
<tr>
<th>Year</th>
<th>Quantitative Target</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
To increase participants knowledge about forages and grazing in order to increase net profits, improve environmental quality and quality of life for farm families.

What has been done

The Ohio forage team developed educational materials to be utilized in teaching, 9 schools were conducted.

Results

Tens of thousands of acres have adopted managed grazing. List practices to be implemented as a result of what you have learned in cow calf school:

4. Associated Knowledge Areas

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V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges

Brief Explanation

(No Data Entered)

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)
- During (during program)

Evaluation Results

(No Data Entered)

Key Items of Evaluation

(No Data Entered)