

V(A). Planned Program (Summary)

Program # 8

1. Name of the Planned Program

Alternative Species (Aquaculture) (Langston University)

Reporting on this Program

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
307	Animal Management Systems		100%		100%
	Total		100%		100%

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2014	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.4	0.0	0.2
Actual Paid	0.0	0.3	0.0	0.2
Actual Volunteer	0.0	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Buffalo fish species will be tested for sustainability and profitability in Oklahoma.

2. Brief description of the target audience

All aquaculture farmers in Oklahoma.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2014	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	200	50	50	25

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

Patent Applications Submitted

Year: 2014
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2014	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of Research Projects completed on Alternative Species

Year	Actual
2014	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Number of farmers learning alternative fish species techniques.
2	Number of farmers using alternative fish species techniques.
3	Farmers who improved their yearly income by using alternative fish species.

Outcome #1

1. Outcome Measures

Number of farmers learning alternative fish species techniques.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2014	25

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Aquaculture producers believe that additional alternative species will provide needed increased revenue streams. These gains would come from improved food fish sales and from triploid species to be stocked into rural and urban ponds managed for recreational fishing. Aquaponic development will require new fish species brood stock and improved and modified management skills required for successful operation.

What has been done

Research results from pond projects and indoor recirculating systems were presented to the clients attending the Langston University (Oklahoma) and Kansas Aquaculture Association annual meetings. Presentations were made at the Shawnee based Pond Pro event and at Tulsa, Oklahoma City and Stillwater Koi and Garden Club Meetings. Fish farmers were assisted in producing triploid grass carp.

Results

Area koi and grass carp producers and vendors have reported increased sales and profits, as well as increased interest in their operations exemplified by requests for site visits and telephone calls. An increase in water conservation efforts by area municipalities coupled with an increase in water bills has resulted in increased sales of more resource efficient equipment by retailers supplying the hobbyist water garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
---------	----------------

307 Animal Management Systems

Outcome #2

1. Outcome Measures

Number of farmers using alternative fish species techniques.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2014	25

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Aquaculture producers believe that additional alternative species will provide needed increased revenue streams. These gains would come from improved food fish sales and from triploid species to be stocked into rural and urban ponds managed for recreational fishing. Aquaponic development will require new fish species brood stock and improved and modified management skills required for successful operation.

What has been done

Research results from pond projects and indoor recirculating systems were presented to the clients attending the Langton University (Oklahoma) and Kansas Aquaculture Association annual meetings, Presentations were made at the Shawnee based Pond Pro event and at Tulsa, Oklahoma City and Stillwater Koi and Garden Club Meetings. Fish farmers were assisted in producing triploid grass carp.

Results

Area koi and grass carp producers and vendors have reported increased sales and profits, as well as increased interest in their operations exemplified by requests for site visits and telephone calls. An increase in water conservation efforts by area municipalities coupled with an increase in water bills has resulted in increased sales of more resource efficient equipment by retailers

supplying the hobbyist water garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
307	Animal Management Systems

Outcome #3

1. Outcome Measures

Farmers who improved their yearly income by using alternative fish species.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2014	25

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Aquaculture producers believe that additional alternative species will provide needed increased revenue streams. These gains would come from improved food fish sales and from triploid species to be stocked into rural and urban ponds managed for recreational fishing. Aquaponic development will require new fish species brood stock and improved and modified management skills required for successful operation.

What has been done

Research results from pond projects and indoor recirculating systems were presented to the clients attending the Langston University (Oklahoma) and Kansas Aquaculture Association annual meetings, Presentations were made at the Shawnee based Pond Pro event and at Tulsa, Oklahoma City and Stillwater Koi and Garden Club Meetings. Fish farmers were assisted in producing triploid grass carp.

Results

Area koi and grass carp producers and vendors have reported increased sales and profits, as well as increased interest in their operations exemplified by requests for site visits and telephone calls. An increase in water conservation efforts by area municipalities coupled with an increase in water bills has resulted in increased sales of more resource efficient equipment by retailers supplying the hobbyist water garden.

4. Associated Knowledge Areas

KA Code	Knowledge Area
307	Animal Management Systems

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)

Brief Explanation

Droughts can hinder research efforts.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Cost analysis will be used to determine if use of alternative fish species resulted in increased income for producers.

Key Items of Evaluation

Producers who improved their fish production practices.