

Summary of the



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Gulf & South Atlantic Regional Panel on Aquatic
Invasive Species

May 11, 2017

Lone Star Lionfish Symposium Mission:

Created a pro-active, unified Texas approach to managing the lionfish invasion through outreach and the creation of a multi-disciplinary State Management Plan

Multi-disciplinary Input

- Biologists
- Engineers
- Outreach & Marketing specialists
- Policy
 - Law Enforcement
 - Lawyer
- Industry Experts
- Educators
- Economist
- Recreational Interests



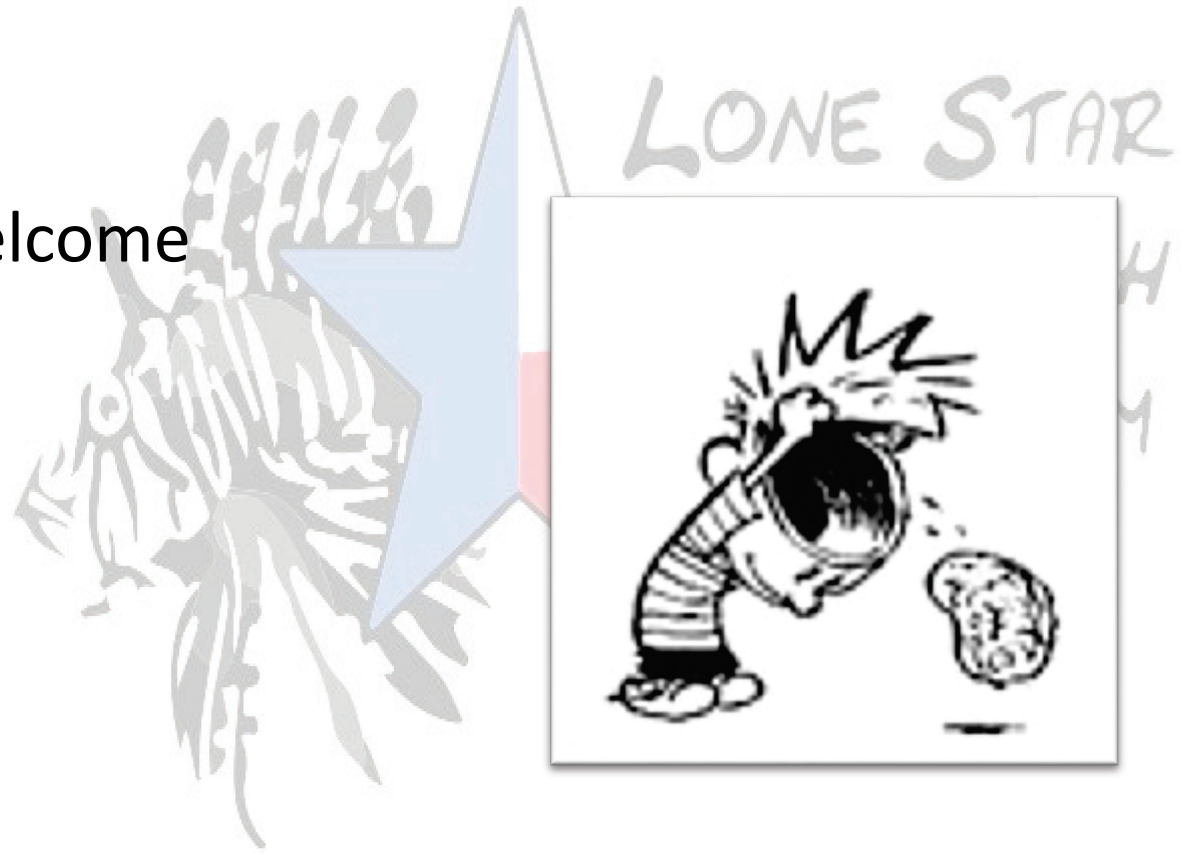
1st LSLS Topic Areas

- Priority Areas
- Outreach
- Research
- Policy
- Control / Management
- Funding
- Uses / Markets



1st LSLS = Brain Dump

- All ideas welcome



Example:

1st LSLS Priority Protection Areas Brain Dump

- Rank areas by access, impacts and economic importance (70.21%)
- Passes, inlets or anything that leads into estuaries (54.25%)
- Identify source population locations → focused control / management (39.36%)
- Cost benefit analysis of priority target areas (36.17%)
- Marine Protected Areas (27.66%)
- Nurseries and important life stage habitats (24.47%)
- Density distribution maps (25.53%)
- Recolonization rates (17.02%)
- Target removal on oil rigs and other artificial reefs (15.96%)

2nd LSLS



2nd LSLS Participants



HARC



TEXAS A&M
UNIVERSITY
CORPUS
CHRISTI

HARTE
RESEARCH INSTITUTE
FOR GULF OF MEXICO STUDIES



BEYOND130
MARKETING SOLUTIONS



TEXAS A&M UNIVERSITY
GALVESTON CAMPUS



MOODY GARDENS
GALVESTON ISLAND



Ocean Conservancy

The Nature Conservancy
Protecting nature. Preserving life.®



PORT CORPUS CHRISTI
ISO 14001 CERTIFIED



COASTAL
CONSERVATION
ASSOCIATION

TEXAS



LAMAR UNIVERSITY



TEXAS A&M
UNIVERSITY
CORPUS
CHRISTI



UNIVERSITY of HOUSTON



Texas Invasive
Species Institute
THE TEXAS STATE UNIVERSITY SYSTEM



THE POWIS FIRM PLLC
LAW AND POLICY



2nd LSLS Group Discussions



State Topic Area Task Prioritization

2nd Annual LoneStar Lionfish Symposium Matrix Overlay with assigned values

Impact	High	8	9	10	11	12	13	14	15
		7	8	9	10	11	12	13	14
		6	7	8	9	10	11	12	13
		5	6	7	8	9	10	11	12
		4	5	6	7	8	9	10	11
		3	4	5	6	7	8	9	10
		2	3	4	5	6	7	8	9
	Low	1	2	3	4	5	6	7	8
		Do-ability							

2nd LSLS Prioritizations...



2nd Annual Lone Star Lionfish Symposium

Matrix Results – Control and Management

1, 1, 5, 5	2	1, 1		1, 1, 1, 1, 5, 7	1, 8	2, 3, 4, 6, 8, 11	4, 4
5, 5, 5, 5, 5, 10, 10	1, 5, 5, 5, 5, 5, 5, 6, 10, 10	1, 9	1, 3, 5, 6, 9, 10	1, 1, 3, 3, 3, 4, 5, 9	1, 3, 3, 3, 3, 3, 4	2, 2, 3	9, 2
5	1, 6, 8, 10	1, 3, 6, 9, 9	1, 1, 6, 7, 7, 10	2, 2, 3, 5, 6, 6, 7, 7	3, 7, 7, 8, 9, 9, 11	2, 4, 4, 4, 9, 9, 11, 11, 11, 11	4, 4, 11
6	2, 6	1, 4, 5, 5, 6, 7, 7, 10	1, 1, 2, 2, 6, 7, 7, 7, 10	2, 2, 3, 4, 4, 6, 6, 6, 6, 7, 7, 7, 7, 7, 8, 9, 9, 9	3, 3, 3, 4, 4, 4, 6, 7, 7, 7, 8	3, 4, 6, 9, 9,	2, 2, 2, 3, 3, 4
1, 6	6, 10	5, 6, 7, 8, 10, 10	2, 2, 2, 4, 8, 8, 11	3, 4, 4, 6	6, 7, 8, 9, 9	11	11, 11
	8, 10, 6	2, 3, 4, 5, 6, 8, 8, 9, 10, 10	1, 7, 8, 11	3, 8, 9, 9, 10	4, 7, 8, 9, 9, 9	2, 8, 8, 9, 11	11, 11
10, 10	5, 10			9	8, 8, 8	2, 11, 11, 11, 11	2, 11, 11
10	8, 10	8			11, 11	2, 4, 11	5, 8, 10, 10

2nd Annual Lone Star Lionfish Symposium Matrix Results – Control and Management

Action Items – Votes (with average)

1. 24 votes/224 cumulative score - 9.33
2. 24 votes/225 cumulative score – 9.37
3. 24 votes/253 cumulative score – 10.54
4. 24 votes/250 cumulative score – 10.42
5. 24 votes/184 cumulative score – 7.67
6. 25 votes/200 cumulative score – 8.00
7. 24 votes/214 cumulative score – 8.92
8. 24 votes/180 cumulative score – 7.50
9. 24 votes/226 cumulative score – 9.42
10. 23 votes/135 cumulative score – 5.87
11. 25 votes/243 cumulative score – 9.72

2nd Annual Lone Star Lionfish Symposium

Matrix Results – Control and Management

Bulleted Priority List (Lowest Hanging Fruit First)

Action 3: Encourage LOCAL control – specific sites.

Action 4: Handling classes hosted throughout the Texas coast by various agencies and organizations.

Action 11: Recognition/certification card for attendance to a lionfish removal/handling workshop.

Action 9: Host organized removal event

Action 2: Encourage industry to report sightings and if possible even remove

Action 1: Determine threshold population size for management requirements and different habitat types.

Action 7: Derbies are effective at reducing populations.

Action 6: Hire divers to target areas (e.g. artificial reefs) to clean out through spearfishing

Action 5: Lionfish specific trap (reduce/eliminate bycatch) that can catch more than one.

Action 8: Commercial fishers should be able to keep/kill (but also keep records)

Action 10: Create a vacuum collection device

Outreach Event







Questions?



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