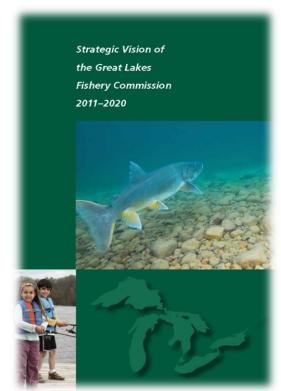




Mid-Decadal Review of the Strategic Vision 2011-2020

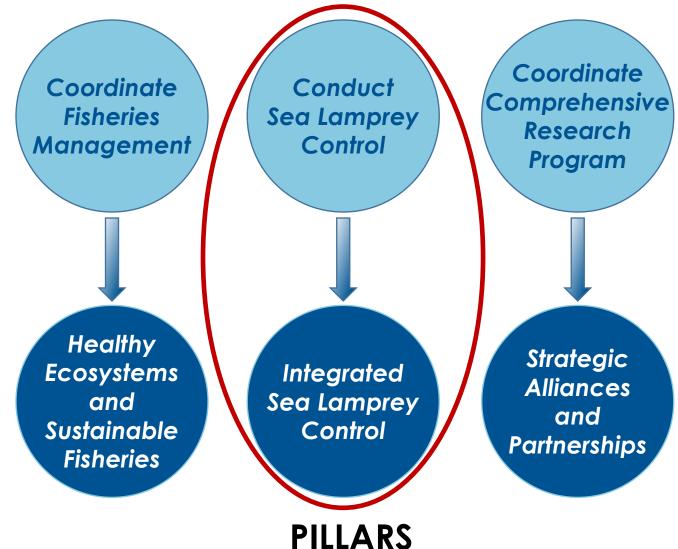
Why a Strategic Vision?

- "Operationalizes" 1954 Convention on Great Lakes Fisheries
 - Convention = roadmap (long-term)
 - Vision = driving directions (10 years)



1954 CONVENTION ON GREAT LAKES FISHERIES

ASSIGNED DUTIES



THE STRATEGIC VISION OF THE GLFC, 2011 - 2020

Structure of Vision

PILLAR: representation of an area of work

GOAL: an essential accomplishment

STRATEGY: a specified approach

OUTCOME: a measure of progress

Structure of Mid-Decadal Review

EVALUATION OF EACH OUTCOME

STATUS: qualifying statement of evaluation

PERFORMANCE: above, meets, does not meet expectations

PROGNOSIS: outlook for 2nd half of decade

EVALUATION METRICS

MEETING OR EXCEEDING EXPECATIONS:

Adequate resources, major impediments not foreseen

NOT MEETING EXPECTATIONS or MEETING WITH CONCERNS:

Challenges have been identified, but a strategic plan is in place and adequate resources are available

BELOW EXPECTATIONS:

Inadequate resources (money or personnel), guidance or intervention required



PILLAR STATEMENT: The commission will suppress sea lamprey populations to levels that permit achievement of fish community objectives for each Great Lake.

GOAL 1: Suppress sea lamprey populations to target levels.

Strategy 1: Implement lampricide treatment strategies to suppress sea lamprey populations to target levels in each Great Lake.

> Outcome: Sea lamprey abundance and wounding rates



Niagara Falls served as a natural barrier to the sea lamprey. The falls were bypassed by the Welland Canal. PHOTO: T. LAWRENCE, GLEC

on lake trout will be at, or below, target levels in each Great Lake.

Strategy 2: Conduct detection and distribution surveys to identify all sources of larval sea lampreys.

Outcome: Sources of sea lamprey will be delineated and control efforts will be more effectively prioritized among streams.

Strategy 3: Measure the effectiveness of lampricide applications and account for its variation among streams.

Outcome: New treatment protocols that result in more effective application of lampricides will be developed and implemented.

GREAT LAKES FISHERY COMMISSION

AR TWO: Integrated Sea Lamprey Contro

15

PILLAR THREE:

Strategic Alliances and Partnerships

PILLAR STATEMENT: The commission will build and maintain effective strategic alliances to promote sustainable fisheries and a healthy Great Lakes ecosystem.

GOAL 1: Strengthen inter-jurisdictional fishery management.

Strategy 1: Facilitate the implementation of A Joint Strategic Plan for Management of Great Lakes Fisheries.

Outcome: Agencies signatory to the Joint Strategic Plan will have met regularly to coordinate management.

Outcome: Lake Committees will have developed, revised, and implemented Joint Strategic Plan products - such as fish community objectives, environmental objectives, total allowable catches, annual lake committee reports, and state-of-the-lake reports - to evaluate progress on the achievement of

fish community, environmental, and law enforcement objectives. Strategy 2: Facilitate the marking of all trout and salmon stocked into the Great Lakes to improve lakewide assessment.

Outcome: Mass marking equipment will have been acquired and used

Outcome: The Council of Lake Committees will have developed and overseen a coordinated process to collect, maintain, and analyze marking data. Outcome: The extent of natural reproduction will have been determined, and the effectiveness of stocking programs and methods known.

GREAT LAKES FISHERY COMMISSION



The commission will encourage the conservation and rehabilitation of healthy Great Lakes ecosystems that sustain fisheries and benefit society.

GOAL 1: Eliminate further losses of native species and rehabilitate depleted populations

Strategy 1: Prevent the loss of native fish species from any Great Lake.

Outcome: No native species will have been lost from any Great Lake. Strategy 2: Encourage management actions to increase natural reproduction

of lake trout. Outcome: Rehabilitation of lake trout will be achieved and maintained

throughout Lake Superior. Outcome: Rehabilitation of the shallow-water form of lake trout will be

achieved in Lake Huron's main basin. Outcome: Progress towards lake trout rehabilitation in Lakes Erie, Michigan, and Ontario will be demonstrated by an increase in the population of naturally reproduced juvenile lake trout.

Strategy 3: Promote development and implementation of rehabilitation plans for depleted native fishes.

Outcome: Rehabilitation plans for deep-water ciscoes will be developed and implemented. Outcome: Naturally produced populations of deepwater ciscoes will in-

Outcome: Natural recruitment of lake sturgeon will increase in Great Lakes

12 to 18 Months Life History PARASITIC JUVENILE METAMORPHOSIC June to March March to July 00

3 to possibly 10 or more years

LARVA

Goal 1: Suppress sea lamprey populations to target levels



ABOVE EXPECTATIONS

Strategy

Outcomes

3) Evaluate lampricide applications, account for variations among streams

New treatment protocols will be developed and implemented

Goal 1: Suppress sea lamprey populations to target levels



MEETS EXPECTATIONS OR BELOW EXPECTATIONS W/PLAN

Strategy	Outcomes
Implement lampricide treatment strategies to suppress populations to target levels	Abundance, wounding rates will be at or below target levels
2) Conduct surveys to identify all sources of larval sea lampreys	Sea lamprey sources will be delineated, control efforts will be more effectively prioritized
5) Construct, maintain a network of barriers	Sea lampreys will have reduced access to spawning habitat
6) Deploy trapping methods to increase capture	Effective and efficient trapping techniques will be developed, implemented

Goal 1: Suppress sea lamprey populations to target levels



BELOW EXPECTATIONS WITHOUT RESOURCES OR PLAN

Strategy

4) Quantify relationship between spawning sea lamprey abundance, lake trout abundance, and lake trout wounding rates

Outcomes

Inconsistencies among estimates of sea lamprey abundance and observed changes in lake trout wounding rates will be accounted for

STATUS:

- Lake trout abundance and wounding data are robust
- Uncertainty around abundance & wounding of other hosts
- Additional survey effort required to address uncertainties

Relationship cannot be conventionally determined without information on other hosts.

Goal 2: Increase effectiveness and efficiency of sea lamprey control to reduce populations



MEETS EXPECTATIONS OR BELOW EXPECTATIONS W/PLAN

Strategy	Outcomes
Develop cost-effective trapping methods, including release of pheromones, to increase capture	One new method will be deployed
 Evaluate repellent-based control methods to deter sea lampreys from spawning habitat 	Efficacy of a method will be assessed in field trials
 Improve existing, develop new rapid assessment methods to determine abundance of larval sea lampreys 	Effectiveness of assessing larval sea lamprey distribution and abundance will be increased
4) Implement, evaluate integrated control techniques	Existing & newly developed control methods will be used, abundance further reduced



Summary: 9 of 10 strategies (two goals) meet or exceed expectations





Thank you – Questions or Comments?