

December 22, 2022

Attachment: NAWMP Metrics Approved For Implementation by NAWMP Plan Committee

## 1. POPULATION METRICS

*Objective: Maintain long-term average populations of breeding ducks [1955 to 2014 in the Traditional Survey Area (TSA) and 1990 to 2014 in the Eastern Survey Area (ESA)] and periodically, 40 million or more total breeding ducks and 2.7 million or more breeding ducks in the TSA and ESA, respectively."*

PC Approved Metrics (recommended by NAWMP Science Support Team – NSST)

- Total # ducks (Data source – TSA and ESA Annual Surveys)
- Proportion of Time Population objective is met (Data source- Annual surveys)

## 2. HABITAT METRICS

*Objective; Conserve a habitat system with the capacity to maintain long-term average waterfowl population levels, to periodically support abundant populations, and to consistently support resource users at objective levels."*

PC Approved Metrics (recommended by NSST)

- Proportion of stepped-down NAWMP population goal that is currently supported by JV landscape

(Long term (5-10years) – investigate feasibility of using remote sensing and continental mapping effort to calculate an acre value)

### 3. PEOPLE METRICS

*Objective: Increase waterfowl conservation support among various constituencies to at least the levels experienced during the last two decades”*

PC Approved Metrics (recommended by NAWMP Human Dimensions Working Group – HDWG)

- Estimated number of active waterfowl hunters in the U.S. and Canada – baseline average from 1999 to 2013 (1.2 million and 178,000, respectively);
- Reported sales of Migratory Bird Hunting and Conservation Stamp (i.e. Federal Duck Stamp) in the U.S. and Migratory Game Bird Hunting Permits in Canada (baseline 1999-2013 U.S. 1.6 million; \$23.5 million revenue; Canada ~178,000; \$3.2 million revenue).

### 4. INTEGRATION METRICS (for PC internal program evaluation)

*Objective: Effective and efficient management actions under the Plan are informed by understanding how management decisions affect progress toward all three objectives—an integrated system. Specifically, “integration” means considering the impact of specific management decisions on all objectives and learning about the effects of those actions on the attainment of multiple objectives through monitoring and evaluation. Results then feed the adaptive modification of management decisions to improve management performance*

PC Approved Metrics (recommended by NAWMP Integration Steering Committee – ISC)

- Number of and progress on human dimensions (science and monitoring) efforts underway that are explicitly harvest-management-related and are being tracked by the HMWG and HDWG-PET
- # of JV's using decision support tools to weigh impacts across the NAWMP goals/objectives