

**CALIFORNIA PROFESSIONAL
DIVERS ASSOCIATION...BMP COMMITTEE**



**BEST MANAGEMENT PRACTICES
CERTIFICATION MANUAL**

INVASIVE SPECIES

Control of Invasive Species and Time Lines

On Feb 3, 1999, **Executive Order 13112** was signed establishing the National Invasive Species Council. The Executive Order requires that Council of Departments dealing with invasive species be created. Currently there are 13 Departments and Agencies on the Council.

"Invasive species" means an alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health.

The National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 *et seq.*), No indigenous Aquatic Nuisance Prevention and Control Act of 1990, as amended (16 U.S.C. 4701 *et seq.*), Lacey Act, as amended (18 U.S.C. 42), Federal Plant Pest Act (7 U.S.C. 150aa *et seq.*), Federal Noxious Weed Act of 1974, as amended (7 U.S.C. 2801 *et seq.*), Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*), and other pertinent statutes, provide guidance to control the introduction of invasive species and are designed to minimize the economic, ecological, and human health impacts that invasive species cause.

"Control" means, as appropriate, eradicating, suppressing, reducing, or managing invasive species populations, preventing spread of invasive species from areas where they are present, and taking steps such as restoration of native species and habitats to reduce the effects of invasive species and to prevent further invasions.

Each Federal agency whose actions may affect the status of invasive species shall, to the extent practicable and permitted by law:

(1) Identify such actions

(2) Subject to the availability of appropriations, and within Administration budgetary limits, **use relevant programs and authorities to: (i) prevent the introduction of invasive species;** (ii) detect and respond rapidly to and control populations of such species in a cost-effective and environmentally sound manner; (iii) monitor invasive species populations accurately and reliably; (iv) provide for restoration of native species and habitat conditions in ecosystems that have been invaded; (v) conduct research on invasive species and develop technologies to prevent introduction and provide for environmentally sound control of invasive species; and (vi) promote public education on invasive species and the means to address them.

(3) Not authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species in the United States or elsewhere unless, pursuant to guidelines

that it has prescribed, the agency has determined and made public its determination that the benefits of such actions clearly outweigh the potential harm caused by invasive species; and that all feasible and prudent measures to minimize risk of harm will be taken in conjunction with the actions.

(4) Federal agencies shall pursue the duties set forth in this section in consultation with the Invasive Species Council, consistent with the Invasive Species Management Plan and in cooperation with stakeholders, as appropriate, and, as approved by the Department of State, when Federal agencies are working with international organizations and foreign nations.

Duties of the Invasive Species Council

The Invasive Species Council shall **provide national leadership regarding invasive species**, and shall:

- (a) Oversee the implementation of this order and see that the **Federal agency activities concerning invasive species are coordinated**, complementary, cost-efficient, and effective, relying to the extent feasible and appropriate on existing organizations addressing invasive species, such as the Aquatic Nuisance Species Task Force, the Federal Interagency Committee for the Management of Noxious and Exotic Weeds, and the Committee on Environment and Natural Resources;
- (b) **Encourage planning and action at local, tribal, State, regional, and ecosystem-based levels** to achieve the goals and objectives of the Management Plan in section 5 of this order, in cooperation with stakeholders and existing organizations addressing invasive species;
- (c) **Develop recommendations for international cooperation** in addressing invasive species;
- (d) Develop, in consultation with the Council on Environmental Quality, **guidance to Federal agencies pursuant to the National Environmental Policy Act** on prevention and control of invasive species, including the procurement, use, and maintenance of native species as they affect invasive species;
- (e) **Facilitate development of a coordinated network among Federal agencies to document, evaluate, and monitor impacts** from invasive species on the economy, the environment, and human health;

(f) Facilitate establishment of a coordinated, **up-to-date information sharing system** that utilizes, to the greatest extent practicable, the Internet; this system shall facilitate access to and exchange of information concerning invasive species, including, but not limited to, information on distribution and abundance of invasive species; life histories of such species and invasive characteristics; economic, environmental, and human health impacts; management techniques, and laws and programs for management, research, and public education.

(g) Prepare and issue a national Invasive Species Management Plan.

Invasive Species Management Plan

(a) Within **18 months after issuance of this order, the Council shall prepare and issue the first edition of a National Invasive Species Management Plan** (Management Plan), which shall detail and recommend performance-oriented goals and objectives and specific measures of success for Federal agency efforts concerning invasive species. The Management Plan shall recommend specific objectives and measures for carrying out each of the Federal agency duties established in section 2(a) of this order and shall set forth steps to be taken by the Council to carry out the duties assigned to it under section 4 of this order. The Management Plan shall be developed through a public process and in consultation with Federal agencies and stakeholders.

(b) The first edition of the **Management Plan shall include a review of existing and prospective approaches and authorities for preventing the introduction and spread of invasive species**, including those for identifying pathways by which invasive species are introduced and for minimizing the risk of introductions via those pathways, and shall identify research needs and recommend measures to minimize the risk that introductions will occur. Such recommended measures shall provide for a science-based process to evaluate risks associated with introduction and spread of invasive species and a coordinated and systematic risk-based process to identify, monitor, and interdict pathways that may be involved in the introduction of invasive species. If recommended current law does not authorize measures, the Council shall develop and recommend to the President through its Co-Chairs legislative proposals for necessary changes in authority.

(c) **The Council shall update the Management Plan biennially** and shall concurrently evaluate and report on success in achieving the goals and objectives set forth in the Management Plan. The Management Plan shall identify the personnel, other resources, and additional levels of coordination needed to achieve the Management Plan's identified goals and objectives, and the Council shall provide each edition of the Management Plan and each report on it to the Office of Management and Budget. Within 18 months after measures have been recommended by the Council in any edition of the Management Plan, each Federal agency whose action is required to implement such measures shall either take the action recommended or shall provide the Council with an explanation of why the action is not feasible. The Council shall assess the effectiveness of this order no less than once each 5 years after the order is issued and shall report to the Office of Management and Budget on whether the order should be revised.

Management Plans by Species



Invasive Tubeworms:

- Build tubes on hulls of boats, slowing them or increasing fuel use.
- Hull must be cleaned often or tubes become strongly attached and require hard scrubbing that may chip paint.



Striped Barnacle:

- Heavy fouling slows boat speed by 40% or increases fuel use.
- Provides a habitat for other AIS.



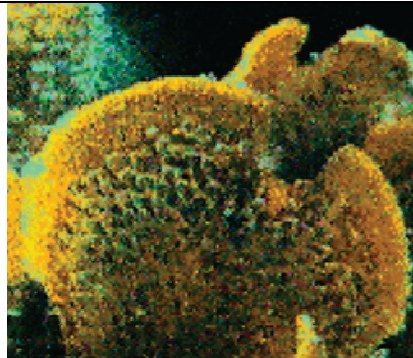
Australian Isopod:

- Burrows into and erodes shorelines.



European Green Crab:

- Robs native birds and crabs of their food.
- Devours cultured oysters, mussels and native clams.
- Threatens multi-million dollar fishery and aquaculture businesses.



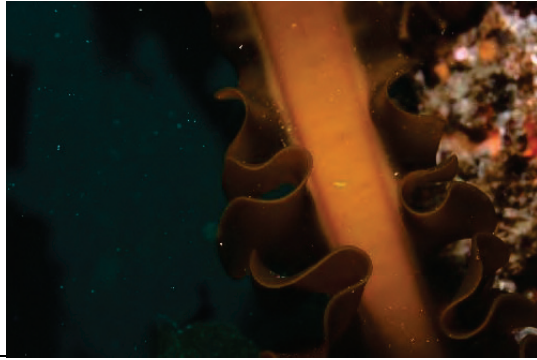
Bryozoan:

- Less sensitive to copper than many fouling organisms.
- Provides surface for more-sensitive species to grow.



Club Tunicate:

- Competes with cultured shellfish for space and food.
- Shucking tunicate-fouled oysters can harm lungs.



Asian Kelp, Japanese Seaweed, Wakame

- Competes with native species for space and food.
- Weighs down and increases drag on aquaculture lines and floats.

Council Members

The National Invasive Species Council is composed of 13 Federal Departments and Agencies. The Secretaries or the Administrators of each Department or Agency are the official Council members. However, their designated technical representatives carry out the day-to-day work of the Council. These representatives meet several times a year. The official Council generally meets two times a year.

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