Grass carp were imported to the U.S. several decades ago because of their unusual ability to eat aquatic plants and the fact that they are excellent table fare. While they only occasionally bite live or artificial bait, they put up quite a fight when hooked. Their initial cost is higher than a herbicide application, but they generally are cheaper in the long run. This publication is designed to guide you as you consider the use of grass carp in your situation.

Grass carp may be used along with other weed control measures, such as herbicides or by themselves. Many people stock grass carp for long term control while using spot herbicide treatments to achieve an immediate effect. For information on aquatic herbicide selection and use, plus other control measures, see SRAC publications 360 and 361.

Generally, pond weeds are totally eliminated when 10 to 12 grass carp are stocked per surface acre. This is not recommended in sport fishing ponds, since some weeds are desirable as a refuge for forage fish from bass. Good results in sport fishing ponds have been obtained when grass carp are stocked at a rate of 10 per vegetated acre. For example, a three acre pond that is 50% covered by weeds is equal to 1.5 vegetated acres and would take 15 grass carp.

If bass are present, then large grass carp must be stocked to insure survival. Eight inch long grass carp are the minimum acceptable length for bass ponds, with larger grass carp recommended whenever practical.

There are several cases in which grass carp are generally not recommended:

- Sport fishing ponds with less than 25% weed coverage. Spot herbicide treatments can be used instead to open up some areas for shore fishing.
- Ponds with tough weeds, such as cattails, bullrushes, and lilies. These generally cannot be controlled by grass carp, which lack the teeth needed to consume them.
- Ponds managed as resting and feeding places for ducks. Grass carp will eliminate plants favored by ducks for food.
- Any situation where grass carp could escape and enter public waters. This includes any pond that overflows unless spillway barriers are installed. See the section on spillway barriers that follows.

A list of grass carp suppliers is available in OSU Current Report CR-9205, “Fingerlings for Pond Stocking.” Oklahoma regulations may be undergoing change, making diploid grass carp illegal to sell. If this change occurs, then sterile triploid grass carp will take the place of diploids.

After stocking, it will be some time before you see any major effects. Holes in weed beds may begin to appear late in the first year or early in the second year following stocking. Restock at the first sign of weed regrowth. Generally this will be after seven or eight years, which is the average grass carp life span.

Grass carp will escape over pond spillways and through overflow drains. Parallel bar barriers should be built to protect your investment and prevent illegal escape of grass carp into public waters. Owners of large impoundments should confer with their county Natural Resource Conservation Service to insure that barriers will not increase the chance of a dam failure.

One method of constructing spillway barriers is to weld horizontal 3/8 inch rods to 3/4 inch vertical support rods. Leave a one inch gap between horizontal rods to hold eight inch and larger fish while allowing most trash to flow through. Four feet long by two feet high panels can be moved easily and pinned together like livestock corral panels. Steel T-posts, driven into the spillway a few feet upstream of the barrier, are recommended if tree limbs or other large objects are likely to cross the spillway during heavy downpours. Overflow pipe barriers should have a top, sides, and bottom that are larger than the diameter of the pipe. Barriers should be checked regularly and cleaned if needed.

Grass carp may be used along with other weed control measures, such as herbicides or by themselves. Many people stock grass carp for long term control while using spot herbicide treatments to achieve an immediate effect. For information on aquatic herbicide selection and use, plus other control measures, see SRAC publications 360 and 361.

Generally, pond weeds are totally eliminated when 10 to 12 grass carp are stocked per surface acre. This is not recommended in sport fishing ponds, since some weeds are desirable as a refuge for forage fish from bass. Good results in sport fishing ponds have been obtained when grass carp are stocked at a rate of 10 per vegetated acre. For example, a three acre pond that is 50% covered by weeds is equal to 1.5 vegetated acres and would take 15 grass carp.

If bass are present, then large grass carp must be stocked to insure survival. Eight inch long grass carp are the minimum acceptable length for bass ponds, with larger grass carp recommended whenever practical.

There are several cases in which grass carp are generally not recommended:

- Sport fishing ponds with less than 25% weed coverage. Spot herbicide treatments can be used instead to open up some areas for shore fishing.
- Ponds with tough weeds, such as cattails, bullrushes, and lilies. These generally cannot be controlled by grass carp, which lack the teeth needed to consume them.
- Ponds managed as resting and feeding places for ducks. Grass carp will eliminate plants favored by ducks for food.
- Any situation where grass carp could escape and enter public waters. This includes any pond that overflows unless spillway barriers are installed. See the section on spillway barriers that follows.

A list of grass carp suppliers is available in OSU Current Report CR-9205, “Fingerlings for Pond Stocking.” Oklahoma regulations may be undergoing change, making diploid grass carp illegal to sell. If this change occurs, then sterile triploid grass carp will take the place of diploids.

After stocking, it will be some time before you see any major effects. Holes in weed beds may begin to appear late in the first year or early in the second year following stocking. Restock at the first sign of weed regrowth. Generally this will be after seven or eight years, which is the average grass carp life span.

Grass carp will escape over pond spillways and through overflow drains. Parallel bar barriers should be built to protect your investment and prevent illegal escape of grass carp into public waters. Owners of large impoundments should confer with their county Natural Resource Conservation Service to insure that barriers will not increase the chance of a dam failure.

One method of constructing spillway barriers is to weld horizontal 3/8 inch rods to 3/4 inch vertical support rods. Leave a one inch gap between horizontal rods to hold eight inch and larger fish while allowing most trash to flow through. Four feet long by two feet high panels can be moved easily and pinned together like livestock corral panels. Steel T-posts, driven into the spillway a few feet upstream of the barrier, are recommended if tree limbs or other large objects are likely to cross the spillway during heavy downpours. Overflow pipe barriers should have a top, sides, and bottom that are larger than the diameter of the pipe. Barriers should be checked regularly and cleaned if needed.

Grass carp may be used along with other weed control measures, such as herbicides or by themselves. Many people stock grass carp for long term control while using spot herbicide treatments to achieve an immediate effect. For information on aquatic herbicide selection and use, plus other control measures, see SRAC publications 360 and 361.

Generally, pond weeds are totally eliminated when 10 to 12 grass carp are stocked per surface acre. This is not recommended in sport fishing ponds, since some weeds are desirable as a refuge for forage fish from bass. Good results in sport fishing ponds have been obtained when grass carp are stocked at a rate of 10 per vegetated acre. For example, a three acre pond that is 50% covered by weeds is equal to 1.5 vegetated acres and would take 15 grass carp.

If bass are present, then large grass carp must be stocked to insure survival. Eight inch long grass carp are the minimum acceptable length for bass ponds, with larger grass carp recommended whenever practical.

There are several cases in which grass carp are generally not recommended:

- Sport fishing ponds with less than 25% weed coverage. Spot herbicide treatments can be used instead to open up some areas for shore fishing.
- Ponds with tough weeds, such as cattails, bullrushes, and lilies. These generally cannot be controlled by grass carp, which lack the teeth needed to consume them.
- Ponds managed as resting and feeding places for ducks. Grass carp will eliminate plants favored by ducks for food.
- Any situation where grass carp could escape and enter public waters. This includes any pond that overflows unless spillway barriers are installed. See the section on spillway barriers that follows.

A list of grass carp suppliers is available in OSU Current Report CR-9205, “Fingerlings for Pond Stocking.” Oklahoma regulations may be undergoing change, making diploid grass carp illegal to sell. If this change occurs, then sterile triploid grass carp will take the place of diploids.

After stocking, it will be some time before you see any major effects. Holes in weed beds may begin to appear late in the first year or early in the second year following stocking. Restock at the first sign of weed regrowth. Generally this will be after seven or eight years, which is the average grass carp life span.

Grass carp will escape over pond spillways and through overflow drains. Parallel bar barriers should be built to protect your investment and prevent illegal escape of grass carp into public waters. Owners of large impoundments should confer with their county Natural Resource Conservation Service to insure that barriers will not increase the chance of a dam failure.

One method of constructing spillway barriers is to weld horizontal 3/8 inch rods to 3/4 inch vertical support rods. Leave a one inch gap between horizontal rods to hold eight inch and larger fish while allowing most trash to flow through. Four feet long by two feet high panels can be moved easily and pinned together like livestock corral panels. Steel T-posts, driven into the spillway a few feet upstream of the barrier, are recommended if tree limbs or other large objects are likely to cross the spillway during heavy downpours. Overflow pipe barriers should have a top, sides, and bottom that are larger than the diameter of the pipe. Barriers should be checked regularly and cleaned if needed.
The Oklahoma Cooperative Extension Service
Bringing the University to You!

The Cooperative Extension Service is the largest, most successful informal educational organization in the world. It is a nationwide system funded and guided by a partnership of federal, state, and local governments that delivers information to help people help themselves through the land-grant university system.

Extension carries out programs in the broad categories of agriculture, natural resources and environment; family and consumer sciences; 4-H and other youth; and community resource development. Extension staff members live and work among the people they serve to help stimulate and educate Americans to plan ahead and cope with their problems.

Some characteristics of the Cooperative Extension system are:

• The federal, state, and local governments cooperatively share in its financial support and program direction.
• It is administered by the land-grant university as designated by the state legislature through an Extension director.
• Extension programs are nonpolitical, objective, and research-based information.
• It provides practical, problem-oriented education for people of all ages. It is designated to take the knowledge of the university to those persons who do not or cannot participate in the formal classroom instruction of the university.
• It utilizes research from university, government, and other sources to help people make their own decisions.
• More than a million volunteers help multiply the impact of the Extension professional staff.
• It dispenses no funds to the public.
• It is not a regulatory agency, but it does inform people of regulations and of their options in meeting them.
• Local programs are developed and carried out in full recognition of national problems and goals.
• The Extension staff educates people through personal contacts, meetings, demonstrations, and the mass media.
• Extension has the built-in flexibility to adjust its programs and subject matter to meet new needs. Activities shift from year to year as citizen groups and Extension workers close to the problems advise changes.

The Cooperative Extension Service is the largest, most successful informal educational organization in the world. It is a nationwide system funded and guided by a partnership of federal, state, and local governments that delivers information to help people help themselves through the land-grant university system.

Extension carries out programs in the broad categories of agriculture, natural resources and environment; family and consumer sciences; 4-H and other youth; and community resource development. Extension staff members live and work among the people they serve to help stimulate and educate Americans to plan ahead and cope with their problems.

Some characteristics of the Cooperative Extension system are:

• The federal, state, and local governments cooperatively share in its financial support and program direction.
• It is administered by the land-grant university as designated by the state legislature through an Extension director.
• Extension programs are nonpolitical, objective, and research-based information.

The author thanks Richard Couch and Mike Porter for their valuable input into this publication. Recommendations included here may not be identical with those of the reviewers.

Oklahoma State University, in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Americans with Disabilities Act of 1990, and other federal laws and regulations, does not discriminate on the basis of race, color, national origin, gender, age, religion, disability, or status as a veteran in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial aid, and educational services.

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Robert E. Whitson, Director of Cooperative Extension Service, Oklahoma State University, Stillwater, Oklahoma. This publication is printed and issued by Oklahoma State University as authorized by the Vice President, Dean, and Director of the Division of Agricultural Sciences and Natural Resources and has been prepared and distributed at a cost of 20 cents per copy. 0809 GH Revised