

## *Estuary Keeper*

A northern pike closes in on a school of smaller fish.

**Lose 3 fish**

## *Estuary Keeper*

A local farmer sprayed his or her crops for insects. When it rained, the runoff ran into the estuary.

**Lose 3 fish**

## *Estuary Keeper*

State fishing regulations are updated. This gives you additional protection for your fish species.

**Add 5 fish**

## *Estuary Keeper*

A river wetland is set aside as a nature reserve.

**Add 4 fish**

## *Estuary Keeper*

A local farmer expanded his or her goat pen near the water. Extra algae grew in the water because of the runoff.

**Lose 2 fish**

## *Estuary Keeper*

Three fish are caught in a gill net set by a commercial angler.

**Lose 3 fish**

## *Estuary Keeper*

“Beach Sweep” was held to collect debris in the watershed.

**Lose no fish**

## *Estuary Keeper*

Rainbow trout feed in the estuary.

**Lose 2 fish**

## *Estuary Keeper*

The nursery has lost 3 fry (fish babies) because bulldozing a nearby piece of land caused mud to wash into the water.

**Lose 3 fish**

## *Estuary Keeper*

All of the roadway storm drains are funneled into a holding pond with lots of plants to absorb the runoff and chemicals.

**Add 4 fish**

## *Estuary Keeper*

An osprey flies over. It eats 1 fish for dinner.

**Lose 1 fish**

## *Estuary Keeper*

After changing the oil in a car, a local homeowner dumps the oil into the storm drain instead of bringing it to a recycling center.

**Lose 3 fish**

## *Estuary Keeper*

A new marina attracts 30 new boats to the estuary.

**Lose 2 fish**

## *Estuary Keeper*

The wetland is left undisturbed.

**Each player adds 4 fish**

## *Estuary Keeper*

A fish ate a piece of plastic packing materials that was blown into the water.

**Lose 1 fish**

## *Estuary Keeper*

A largemouth bass catches a fish for dinner.

**Lose 1 fish**

## *Estuary Keeper*

An angler practices catch and release - carefully putting the fish caught back immediately back in the water.

**Lose no fish**

## *Estuary Keeper*

Something mysterious in the water kills fish.

**Each player removes 3 fish**

## *Estuary Keeper*

A vacationing family of 4 went fishing and each caught a fish. None were released.

**Lose 4 fish**

## *Estuary Keeper*

A local factory reduces their emissions. The water is now cleaner.

**Add 4 fish**

## *Estuary Keeper*

A muskellunge ate 2 fish.

**Lose 2 fish**

## *Estuary Keeper*

New fry (baby fish) swim into the estuary from Lake Superior.

**Add 6 fish**

## *Estuary Keeper*

Area closed to fishing during spawning season. Three fry (baby fish) hatch.

**Add 3 fish**

## *Estuary Keeper*

A new dock is built through the wetland without a permit. Two fish are killed when pilings damaged their habitat.

**Lose 2 fish**

## *Estuary Keeper*

A large algal bloom occurs. Bacteria feed on the algae and use up all of the oxygen in the water creating a dead zone causing a fish kill.

**Lose all your fish**

## *Estuary Keeper*

No dredging is allowed in the estuary. Fish habitat is healthy.

**Add 5 fish**

## *Estuary Keeper*

The city establishes a buffer zone rule so no one can cut the vegetation (grass) within 20 feet of the water. The water is now cleaner.

**Add 3 fish**

## *Estuary Keeper*

Commercial anglers check their gill nets frequently and frees the fish that will not be kept for sale to local food vendors.

**Lose no fish**

## *Estuary Keeper*

A motorboat speeds through the estuary and doesn't keep to the marked channels. The propellers drag bottom and the wake causes erosion, which destroy fish habitat.

**Lose 2 fish**

## *Estuary Keeper*

Septic tanks near the water have not been pumped out for over 10 years and pollute the estuary.

**Lose 3 fish**



For more information about Great Lakes Aquarium go to [www.glaquarium.org](http://www.glaquarium.org)



For more information about the MN DNR Fish & Wildlife Outreach Section's MinnAqua Program go to [www.mndnr.gov/minnaqua](http://www.mndnr.gov/minnaqua)



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