

2014.9.1  
WLC15



Citizens' Activities  
aiming at Swimmable Lake Kasumigaura

Kasumigaura Citizens' Association

# 1 About Lake Kasumigaura





## Location of Lake Kasumigaura



## Lake Kasumigaura from LANDSAT





## Data of Lake Kasumigaura

Origin	Coastal Inlet	Unit	Note
Water Surface	220	km <sup>2</sup>	Nishiura 171.5km <sup>2</sup> Kitaura 36.2km <sup>2</sup> Hitachi-tone Riv. 12.2km <sup>2</sup>
Shoreline	249	km	Nishiura 122km Kitaura 75km Hitachi-tone 55km
Water Depth	Max 7, Mean 4	m	
Capacity	850	Mm <sup>3</sup>	
Stationary Days	About 200	days	
Number of Inflow River	56		
Inflow Water volume per year	About 1400	Mm <sup>3</sup>	

## 2 About Kasumigaura Citizens' Association





## < Establishment >

WLC6 was held in Ibaraki prefecture in 1995.

Citizens' power was mobilized for improving water quality of Lake Kasumigaura.

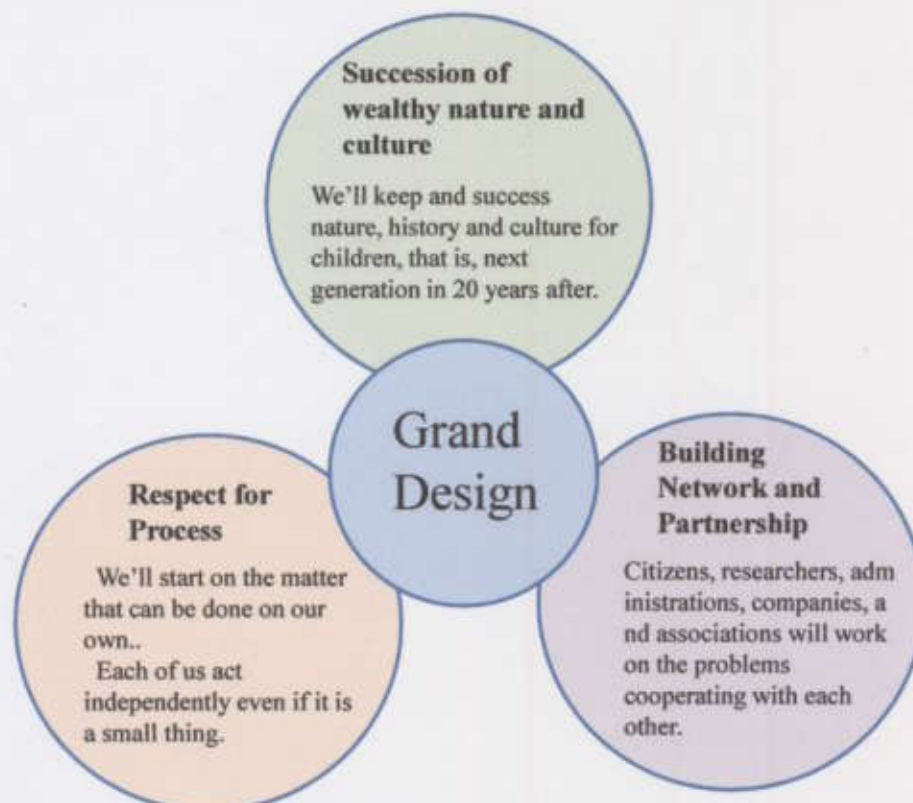
Based on this power, Kasumigaura Citizens' Association has been established in 1996.

## < Objectives >

The main objective is to improve water quality in citizens' position.

We named the target situation as "Swimmable Kasumigaura", and have made "2020 Citizens' Plan for Swimmable Kasumigaura".

The other objective is activation in local region by encouraging human resources who can act for Lake Kasumigaura in the future.

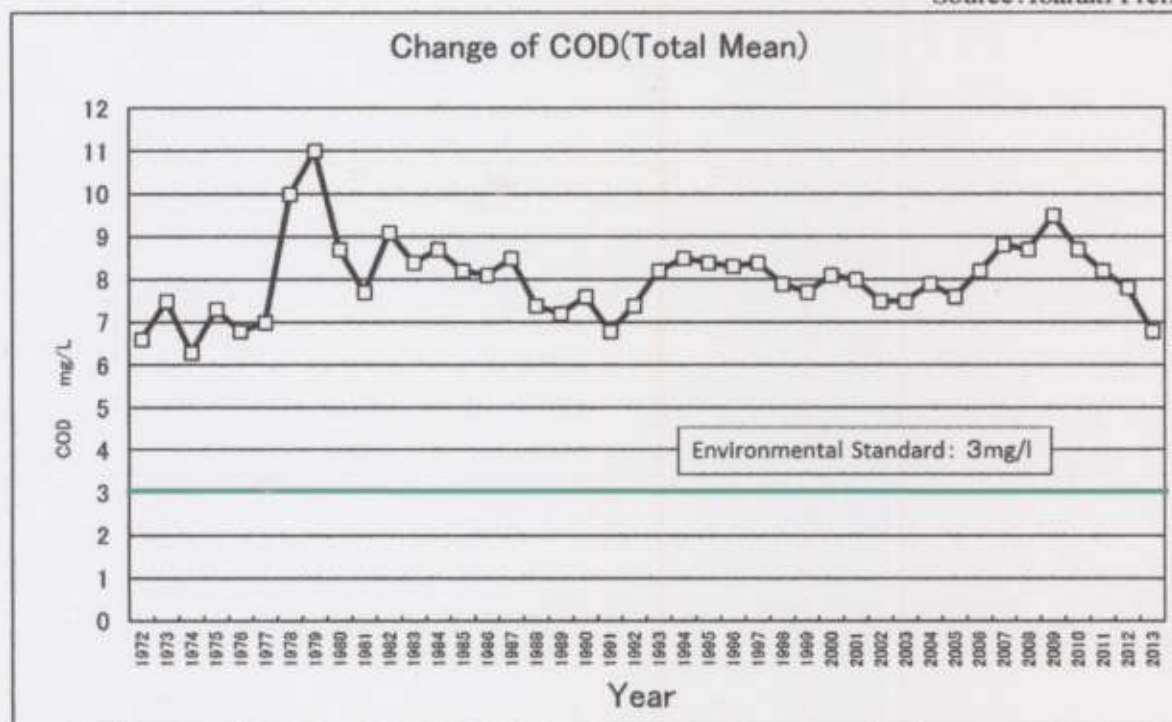


### 3 Water Quality of Lake Kasumigaura



### COD

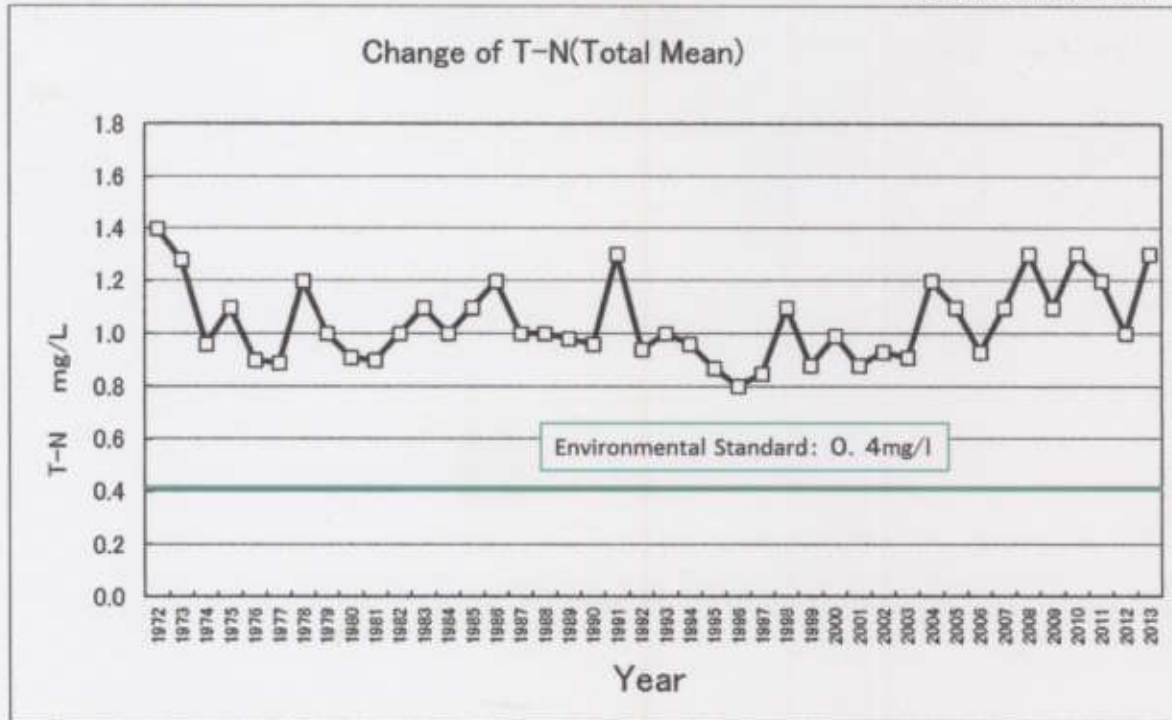
Source: Ibaraki Pref.





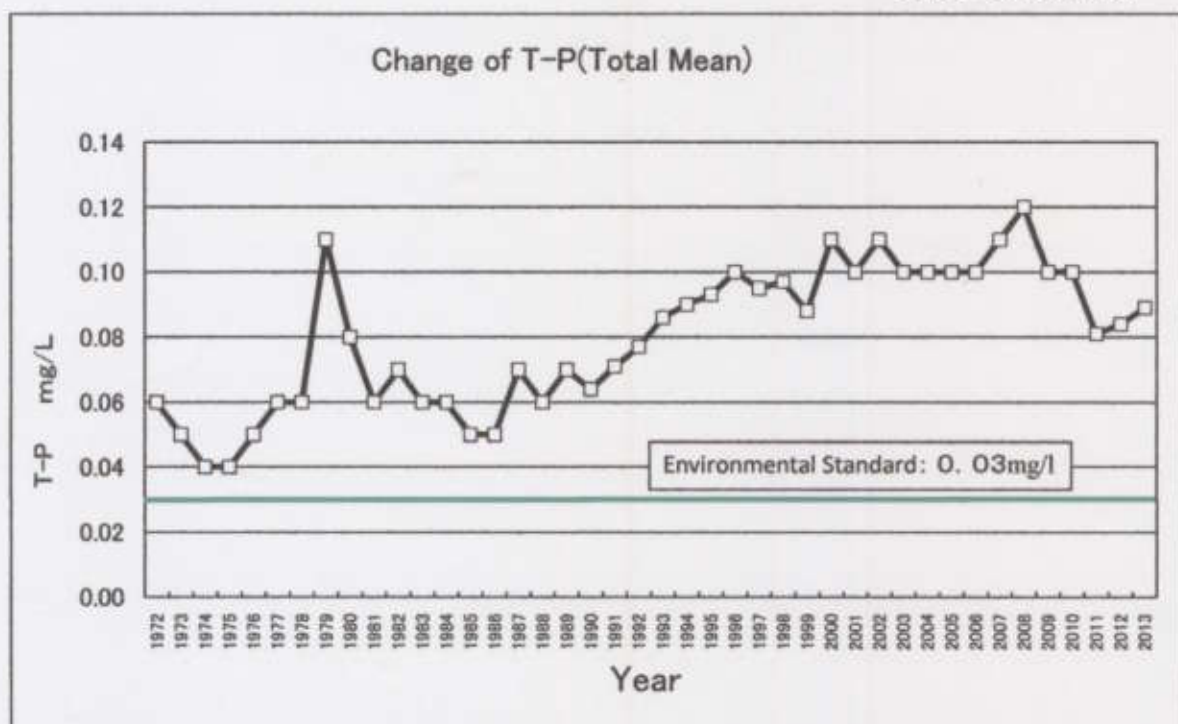
# T-N

Source: Ibaraki Pref.



# T-P

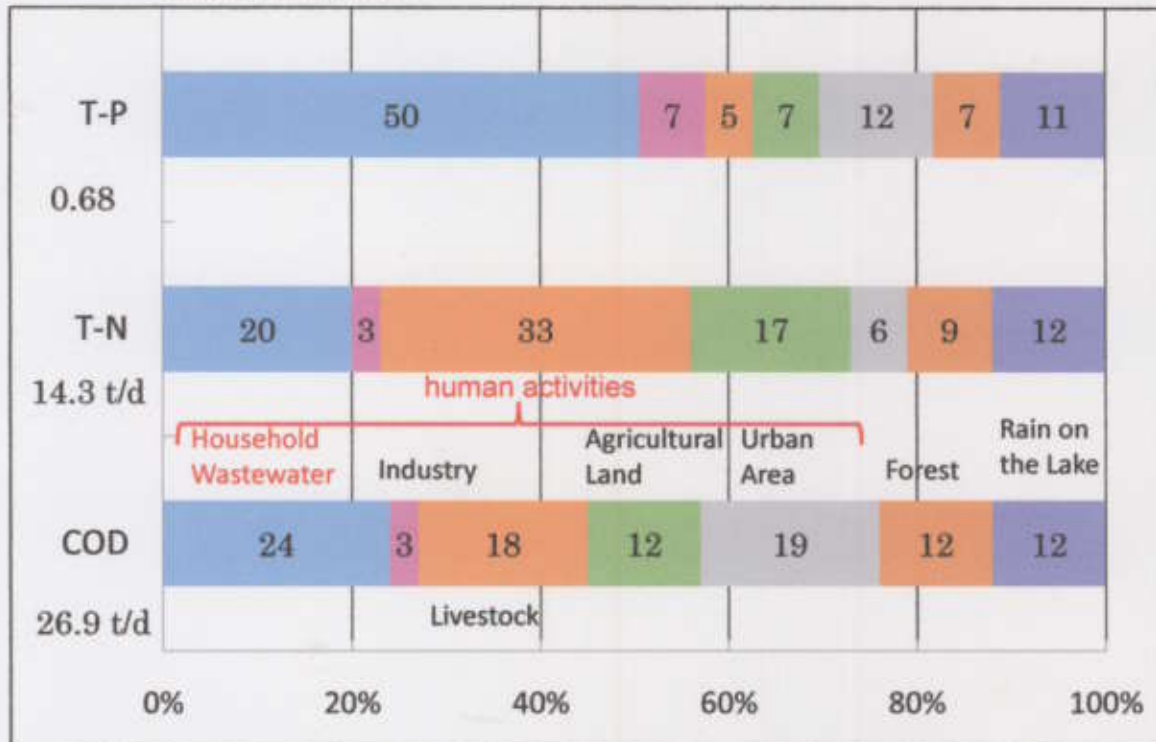
Source: Ibaraki Pref.





# Inflow Pollutant to Lake Kasumigaura

2010 Fiscal Year



Source: Ibaraki Pref.

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## 4 Activities of Kasumigaura Citizens' Association



oyogeru kasumigaura  
2020

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## Citizens' Activities

In the cause of the water pollution of Lake Kasumigaura, the influence by the human activity is large.



From citizens' standpoints, we are executing the activities that give priority to enlightenment concerning the water quality improvement, for example, the reduction of household drainage etc.

These activities are very important to cooperate with the citizens, researchers, the administration, industries, and various associations, etc.



## Executed main activities

### <Symposium etc.>

Koi herpes and the citizens('03)、Agricultural chemicals study meeting('04)  
Beach-making study meeting('04)、Beach symposium of hometown('05)  
Symposium related to biodiversity('99,'01,'03)  
Symposium related to indigenous fish('99,'04,'06,'07)  
Meeting of environmental learning('08)  
Lake coast wetlands symposium('09)  
Symposium on relations among forest, lake and river('10,'11,'12)

### < Events and investigation etc.>

#### **Citizens festival for swimmable Kasumigaura('96~)**

Water quality survey by citizens('96~)  
Expedition support (Tomoe riv., Sakura riv., Ono riv., Koise riv.)('02~)  
Participation in world lake conference('97~)

#### **Kasumigaura children summer school('99~)**

Countryside forest reproduction('00~)  
Contact business with Kasumigaura waterside('02~)  
Water quality census('04~)

#### **Kasumigaura approval test('09~)**

Summer school in Ukishima('10)





## How to reduce household drainage

**Kitchen**

- 1 Meal and drink**  
Make a necessary amount alone and does not leave it.
- 2 Cutting rubbish**  
Let's throw away the cutting rubbish to the sink-corner where the drainer net was applied.
- 3 Dishes**  
After it wipes off, let's wash the seasoning and the oil etc. that remains in dishes.
- 4 Tempura oil**  
The tempura oil is never thrown away. Let's harden or absorb to paper and put it out to garbage.
- 5 Tempura oil**  
Let's recycle the water that washed rice for the plant and the garden.
- 6 Kitchen detergent**  
Let's use the proper quantity. Let's collectively wash tableware.

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## Kasumigaura children summer school

### < Outline >

Program that children study through experience while enjoying nature in Lake Kasumigaura.

They study the history of Kasumigaura, the fishery, and the use of water etc., and measure the water quality of Kasumigaura on board.



Cast net

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## Kasumigaura children summer school

### <Object>

To understand Lake Kasumigaura well empirically.

This is for schoolchildren who bear the next generation.

Holding : Once a year



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## Kasumigaura children summer school

### <Contents>

(1) Experience on lake in tour boat

(2) Brush making from acrylic fiber

This brush can wash tableware without using the detergent.

(3) Plankton observation of Lake Kasumigaura

(4) Aquatic plant observation of Lake Kasumigaura

(5) Water quality measurement of Lake Kasumigaura (Packing test)



(2) Brush making from acrylic fiber



(3) Plankton observation



(5) Water quality measurement  
(Packing test)

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## Kasumigaura Approval Test

### < Outline >

Program to amplify knowledge about Lake Kasumigaura that is the treasure in the region, and to improve the concern for Lake Kasumigaura.

Course name	Test class
Introduction course	Junior class
Citizen course	The third class
Leader course	The second class
Doctor course	The first class

Class composition of approval test



Scenery of examination

Holding : Once a year



## Kasumigaura Approval Test

### < Object >

- (1) Knowing the geography in the Kasumigaura basin, the history, the water quality, the fishery, the flood control, the water utilization, and sightseeing, etc. overall, and to utilize them for activation in the region and the water quality improvement.
- (2) Knowing the many services from Lake Kasumigaura, and encouraging citizens to think it to be important.



Recognition certificate presentation for successful applicant



## Citizens festival for swimmable Kasumigaura

### < Outline >

We are executing this festival as an enlightenment event for improving the water quality in the lake side.

The executive committee of the festival composes of the administration, related organizations, and various associations that act for environmental preservation of Lake Kasumigaura.

This festival is executed on July "Sea Day" every year from 1996 .



Kasumigaura lake side



## Citizens festival for swimmable Kasumigaura



Stage event



Water event



Land event



## Activity in the future for swimmable Kasumigaura

The plan for swimmable Kasumigaura was reviewed in middle of the target year (2010).

We are planning to reproduce the open ground of multipurpose that everyone can use in the lakefront of Kasumigaura.

At this place various events will be executed under the slogan "Let's play in the waterside".

### **Reasons:**

The beach in Lake Kasumigaura has been decreased because the shore protection bank is constructed in surroundings, and the water level has been raised more than the past.

If there are a safe place in the waterside, it can be expected that a lot of people will come to lakeside and will feel the lake more important.

We believe that this will lead to the action to improve water quality.



## Conclusion

We have sent many information on the water quality improvement from citizens' standpoints since 1996, and have continued the enlightening activities.

It is difficult to evaluate how much the effect of the activities brought to the water quality improvement.

However, we believe that the activities like our association is always requested as long as the proportion of human activities is large in the cause of water pollution.



END

Thank you for your kind attention