

1. Impression of Clearness



Research by the Wakkun Research Group



Yurinokai Research Group



Research by Chikyu Club Research Group



The Kouseidaichi eco Club Research Group



Mayor of Nagoya City Takashi Kawamura participated in the Horikawa Cheering Group



Research by the 23th Research Group of Senior University's Department of Environment

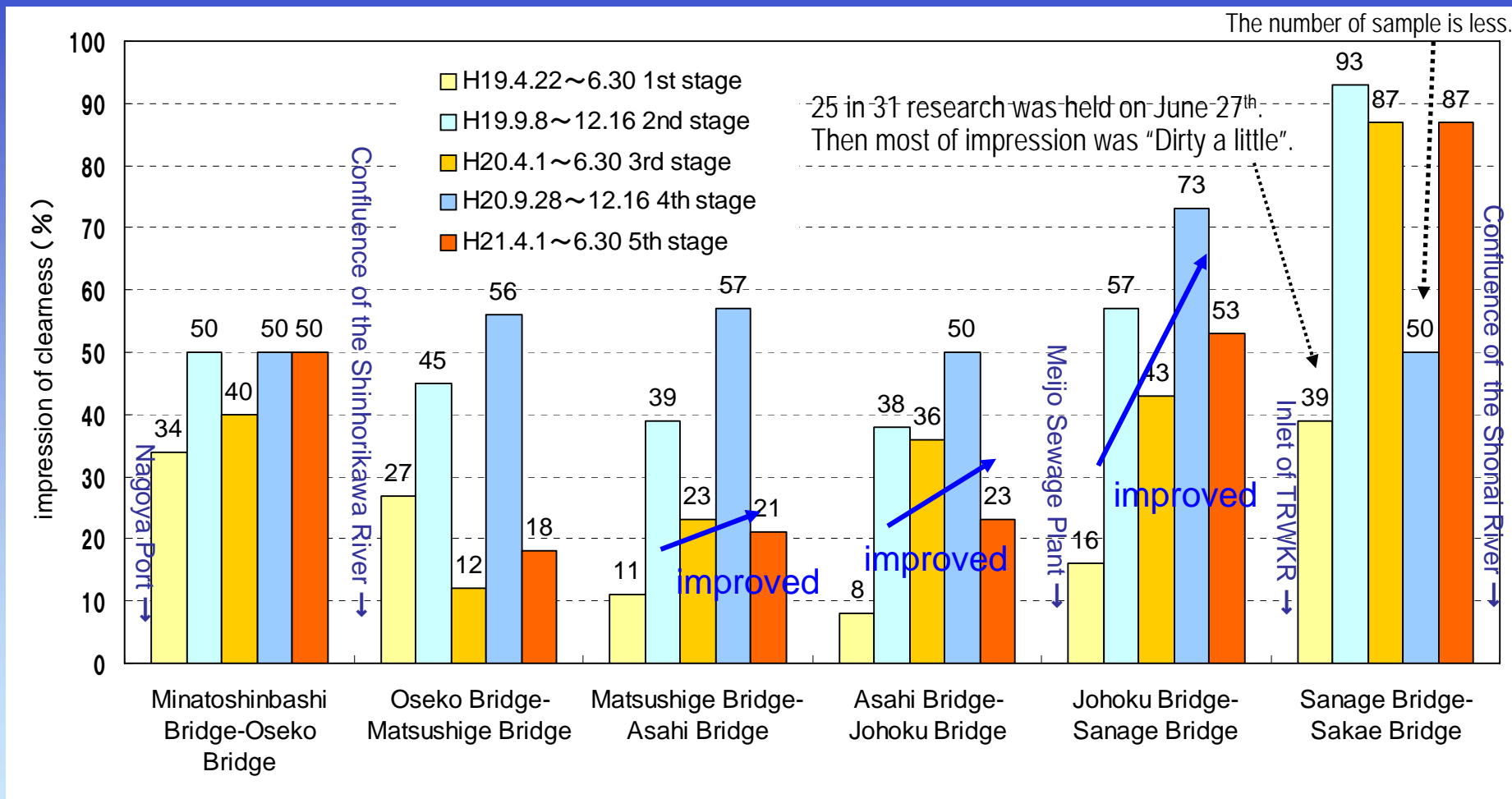


Research by the Central Japan Construction Consultant Co., Ltd

1.1. The Rate of “Clear”, “Clear a little” and “Neutral”

(1)

(With TRWKR, No Rain)



The impression of clearness between the Sanage Bridge and the Matsue Bridge was improved.
 The impression of clearness from spring to early summer is worse than that from autumn to early winter.

1.1. The Rate of “Clear”, ”Clear a little” and ”Neutral”

■ How did the impression of clearness between the Sanage Bridge and the Minatoshinbashi Bridge change?

- In 5th stage, the impression between the Sanage Bridge and the Matsusige Bridge was better than in the 1st stage. The rate of “Clear”, ”Clear a little” and ”Neutral” increased.
- In the 3rd and 5th stage (from spring to early summer), the impression was worse than in the 2nd and 4th stage (from autumn to early winter). The rate of “Clear”, ”Clear a little” and ”Neutral” decreased.
- In the 5th stage, from the Sanage Bridge to the Johoku Bridge, the rate of “Clear”, ”Clear a little” and ”Neutral” is 50%. The lower from the Johoku Bridge to the Asahi Bridge, that rate is 25%. From the Johoku Bridge to the Oseko Bridge, it decrease a little. Then the lower Horikawa River, the less the rate of “Clear”, ”Clear a little” and ”Neutral”.

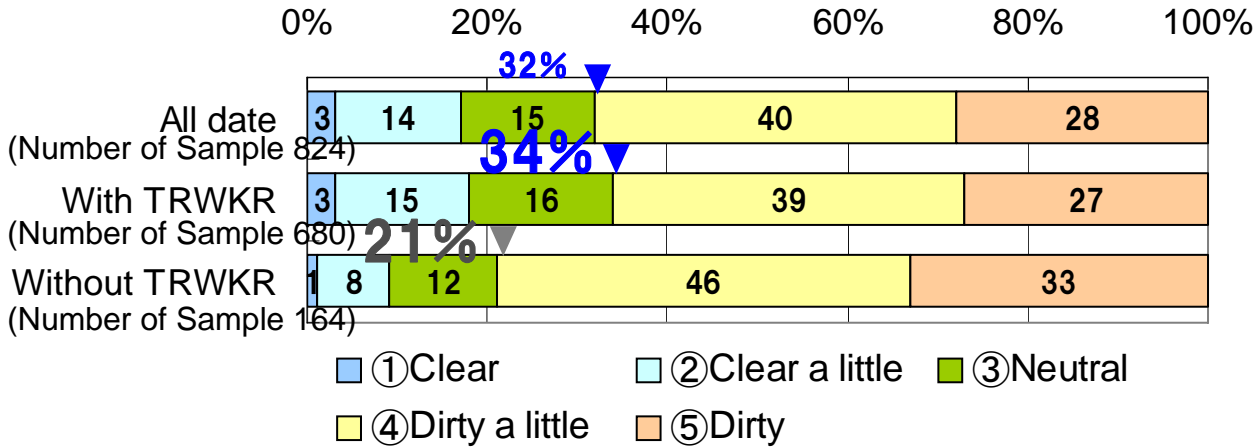


(2) Effect of TRWKR

(No rain)

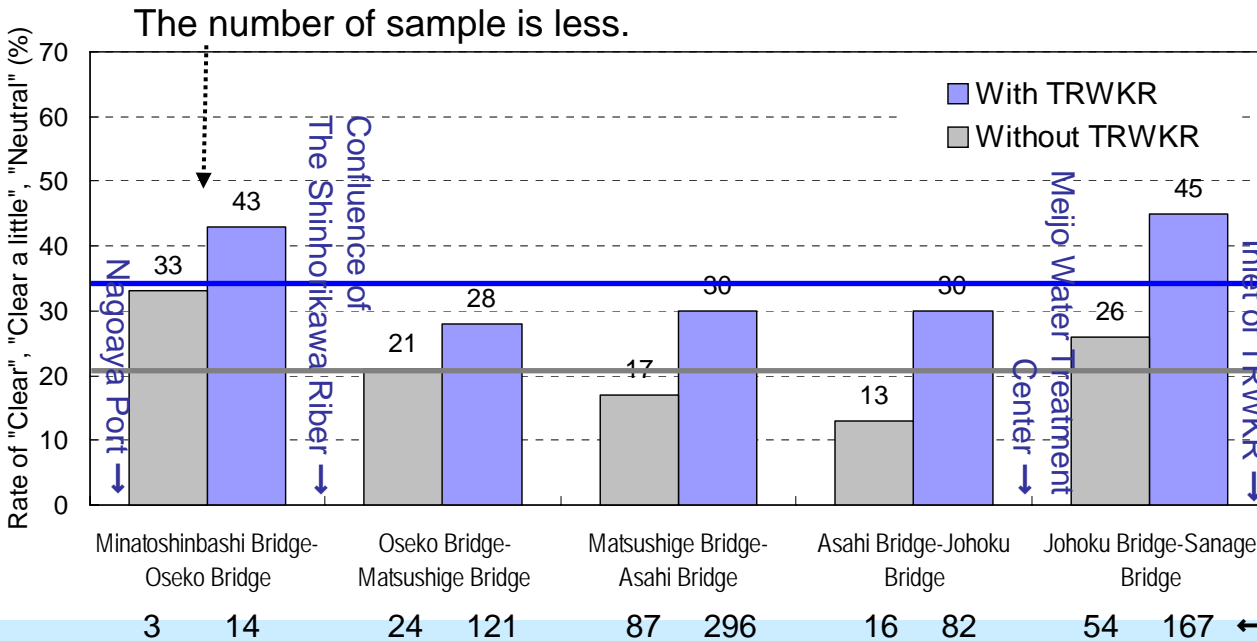
1st stage ~ 5th stage

Sanage Bridge - Minatoshinbashi Bridge



■ Are there any difference of impression of clearness whether TRWKR is done or not ?

- The rate of “Clear”, “Clear a little”, “Neutral” with TRWKR was more than without it. Then the impression of clearness between the Sanage Bridge and the Minatosinbashi Bridge was improved.



← Average 34% with TRWKR

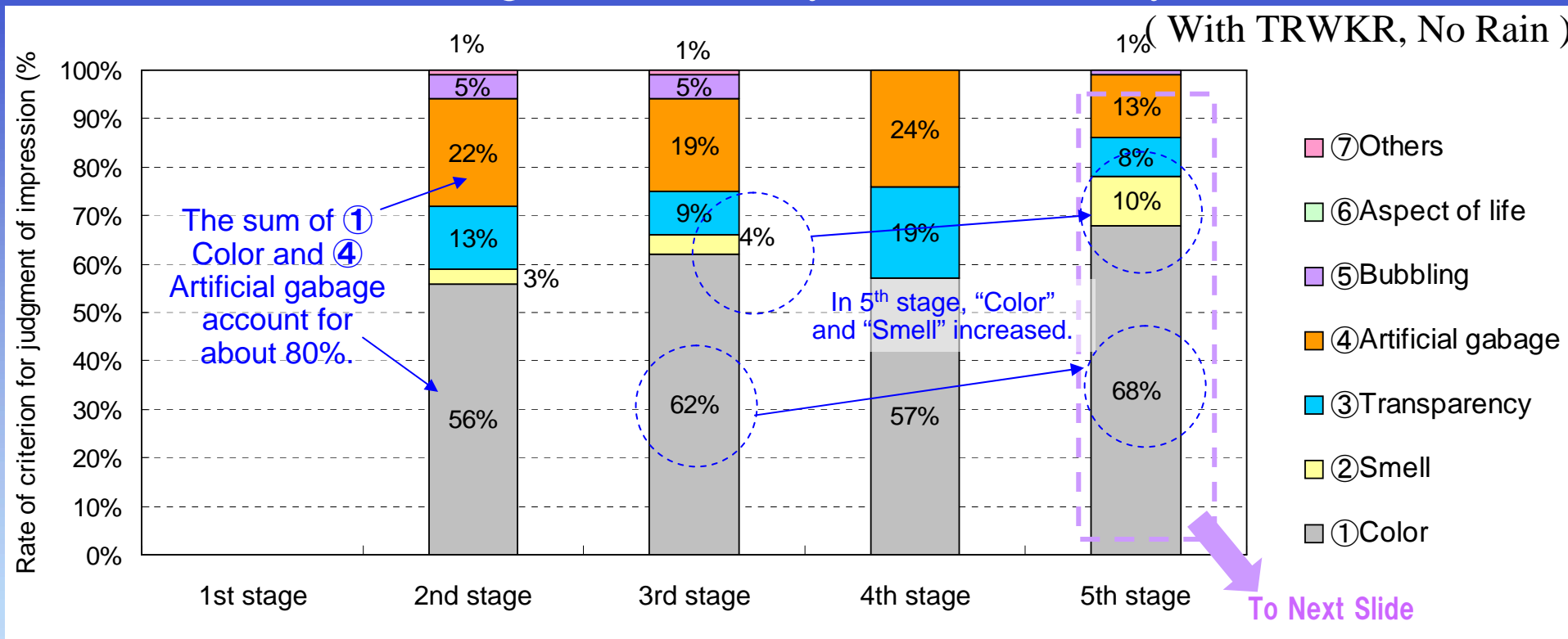
← Average 21% without TRWKR



1.2. Criterion for Judgment of the impression of clearness

between the Sanage Bridge and the Minatosinbashi Bridge

(1) Criterion for Judgment of “Dirty a little”, “Dirty”



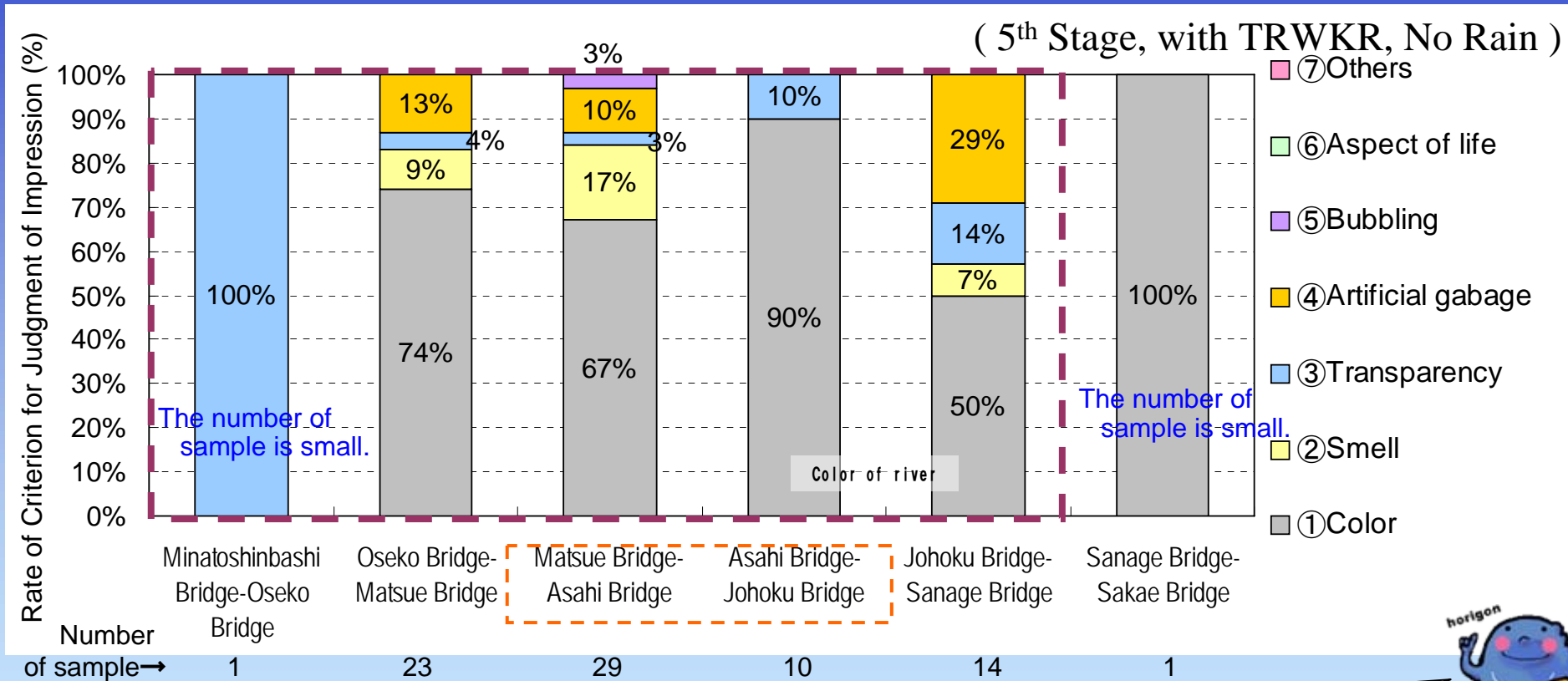
■ What is the criterion for judgment of impression of clearness between the Sanage Bridge and the Minatoshinbashi Bridge ?
The sum of ① Color (over 50%) and ④ Artificial garbage account for about 80%.



1.2. Criterion for Judgment of the impression of clearness

between the Sanage Bridge to the Minatosinbashi Bridge

(1) Criterion for Judgment of “Dirty a little”, “Dirty”



- In 5th stage, “Color” and “Smell” increased more than in 3rd stage.
- In 5th stage, there are comments about sludge in reports between the Johoku Bridge and the Matsushige Bridge. Because of low tide, sludge etc. might be easily raised up. And this might be one of the reasons that “Color” and ”Smell” increased.

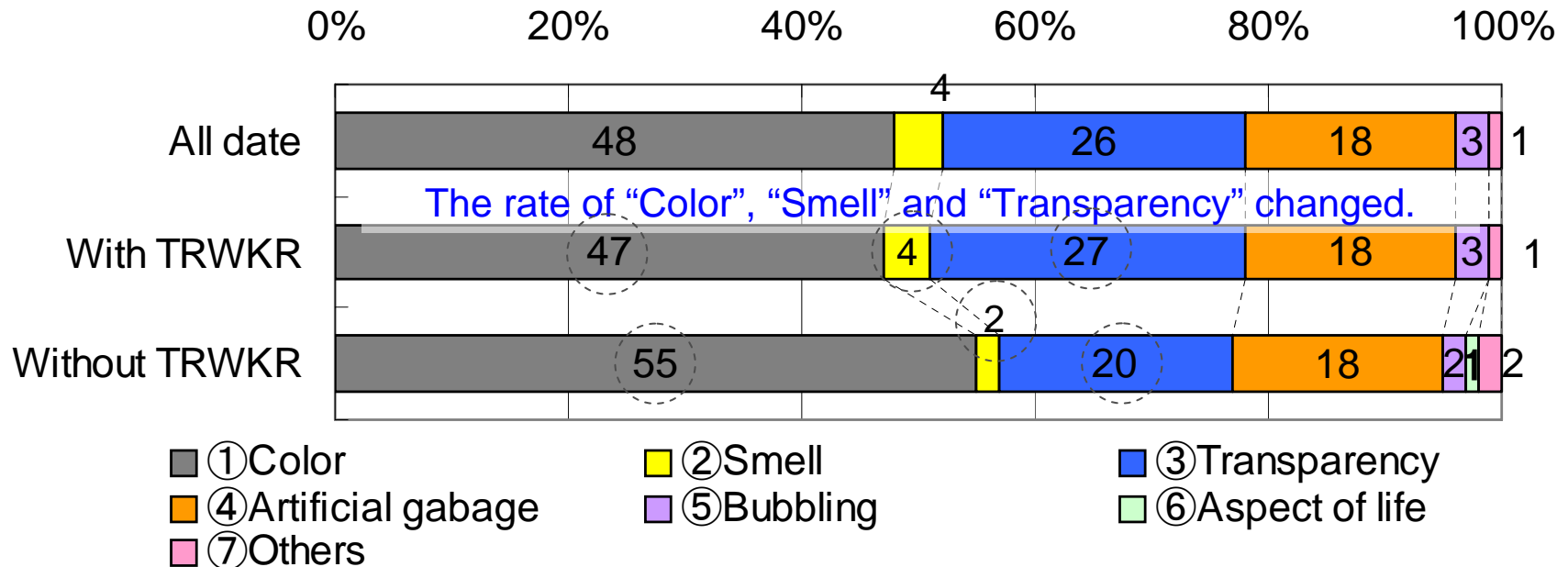


(2) Effect of TRWKR

(No rain)

Impression of Cleanness from the 1st stage to the 5th stage

Sanage Bridge - Minatoshinbashi Bridge



■ Are there any difference of the criterion for judgment of impression of cleanness whether TRWKR is done or not ?

The rate of "Color", "Smell" and "Transparency" changed.

- ① Color: With TRWKR < Without TRWKR
- ② Smell: With TRWKR > Without TRWKR
- ③ Transparency: With TRWKR > Without TRWKR





Column - The impression of Clearness and Analysis -

We explain the impression of clearness and analysis by 5th stage.

We considered that “Clear”, “Clear a little” and “Neutral” are permissible range of citizen. And we arranged the change of its rate by sampling point and stage. (ref. 1.1.(1))

The result showed that from the Sanage Bridge to the Matsue Bridge, the impression of clearness in 5th stage improved more than in 1st stage. And the impression of clearness from spring to early summer was worse than from autumn to early winter.

Then we arranged results of researches whether TRWKR was done or not. When TRWKR was done, the impression of clearness is better at all section lower the Sanage Bridge. (ref. 1.1.(2))

We account for the criterion for judgment of impression of clearness. (ref. 1.2.(1))

The impression of clearness is mainly judged by “Color” and “Artificial garbage”. And they account for 80%.

In the 5th stage, “Color” and ”Smell” increased. And there are comments about sludge in the reports between the Johoku Bridge and the Matsue Bridge. Because the tide was ebbled in 5th stage, sludge might be raised up easily. Then this might be one of the reasons that “Color” and “Smell” increased.

We explain the criterion for judgment of impression of clearness whether TRWKR is done or not.(ref. 1.2.(2))

When TRWKR is done, the rate of “Color”, ”Smell” and ”Transparency” changed. It will be showed by the arrangement of Transparency, COD, Bubbling, color, smell and so on.