

NAME: _____ DATE: _____

STUDENT #: _____ TEACHER: _____

Reef Survey Data Sheet

Record your assigned sampling zone.

| |
|-----------------------------|
| <u>Sampling Zone</u> |
| |

Record the data from the current population.

(Remember to multiply the number of Goby Fish counters by 100 and Coral counters by 10)

| Fishing Crews | Goby Fish | Seaweed | Coral |
|---------------|-----------|---------|-------|
| | | | |

Record your data in the projected population table below.

(Remember to multiply the number of Goby Fish counters by 100 and Coral counters by 10)

| | Fishing Crews | Goby Fish | Seaweed | Coral | Overall Health |
|---------------|---------------|-----------|---------|-------|----------------|
| Year 1 | | | | | |
| Year 2 | | | | | |
| Year 3 | | | | | |
| Year 4 | | | | | |
| Year 5 | | | | | |

Complete the overall health column using the information in Section 3.4 of your *Student Edition*.

1. Use a **green** colored pencil to color in populations that are **good**.
2. Use a **red** colored pencil to color in populations that are **poor**.

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**Coral Reef Permit Impact
Decision Matrix**

| Reef Location | Commercial Permits | Individual Permits | Number of Goby | Number of Seaweed | Number of Coral |
|-----------------------|--------------------|--------------------|----------------|-------------------|-----------------|
| Initial | | | | | |
| End of year 1 | | | | | |
| End of year 2 | | | | | |
| End of year 3 | | | | | |
| End of year 4 | | | | | |
| End of year 5 | | | | | |
| End of year 6 | | | | | |
| End of year 7 | | | | | |
| End of year 8 | | | | | |
| End of year 9 | | | | | |
| End of year 10 | | | | | |

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| End of year 10 | | | | | |

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Permit Recommendation Sheet

Your job, as advisor to the town council, is to recommend the number of commercial and individual fishing licenses that should be awarded in each region you have studied. In the space below, give your recommendation for each region. Your recommendation should include data that you have gotten from the simulation, and consideration to the characteristics of each zone.

Region E

I recommend _____ commercial fishing permits and _____ individual fishing permits for Region

E. I made these recommendations because _____

Region F

I recommend _____ commercial fishing permits and _____ individual fishing permits for Region

F. I made these recommendations because _____

Region G

I recommend _____ commercial fishing permits and _____ individual fishing permits for Region

G. I made these recommendations because _____

