

Algae-2-Fuel Annual Newsletter

Article 1

Improved Growth!

Algae-2-Fuel improved our process for growing algae. Experiments showed that increasing the amount of carbon dioxide (CO₂) in the water increased the number of algae. The table below shows our results.

Day	Low (typical) CO ₂ (number of algae/mL)	High CO ₂ (number of algae/mL)
0	40	40
5	80	90
10	200	240
15	470	550
20	510	565
25	500	560

[Editor's note: The table is accurate. But can we show the data in a better way? Please help. Put your diagram in the space below.]

We are concerned, however, that the population size still leveled off. We're not sure why this happened. We think that the population should keep growing and growing and not level off. Researchers are actively exploring the problem.

[Editor's question: I thought algae only need water and light? Why do they need CO₂? Write a short sentence or two to help readers understand why algae need CO₂. Also describe how CO₂ can be a limiting factor.]

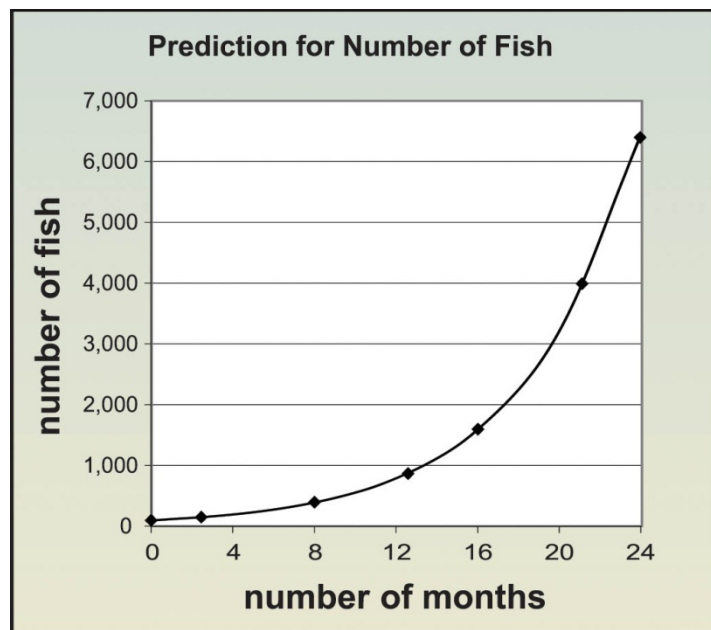
Article 2**New Algal Species?**

Other workers in our research division want to find a new species of algae to improve our process. Other researchers around the world suggested a new species. We started a project to see if the new species would work for Algae-2-Fuel. As you know, we typically grow the algae for 20 days. We started with a very small population of the new species. However, after two days, the population had only doubled. Because we did not see a dramatic change right away, we are abandoning this project.

Article 3**New Business Directions. Fish Farming!**

Algae-2-Fuel stores water in a pond. We want to take advantage of this pond by growing other organisms. One idea for the pond is to grow fish that we can sell. Tilapia is a species of fish that can grow very quickly. We collected data from other researchers. They started with 100 fish in a pond that is the same size as ours. After four months, they had 200 fish. After eight months, they had 400 fish. Based on these data, we concluded that the population was growing exponentially. This is exciting news. We don't think the exponential growth will stop. The graph below shows our prediction for the number of tilapia in our pond after 24 months, starting with 100 fish.

[Editor's note: Please check the graph for errors.]



Article 4

[Editor's note: Our readers may not know a lot about populations. Please write a short paragraph describing how understanding populations relates to your everyday life. Put your new article below. Remember to use a topic sentence to start your paragraph.]

