

Name _____

Aquaculture Production Systems Worksheet

Look at the list of descriptions below. Fill in the blank table by choosing the best description from the list and placing that number in the corresponding block. Down the side of the table is the four types of aquaculture systems discussed and across the top are some categories that can be used to describe the system. In some cases the number can be used more than once.

Culture System	General Description and/or production capacity	Oxygen Supply	Food Source	Waste Management
Ponds	1	3	9	11
Cages	4	8	12	11
Raceways	10	2	12	5
Recirculating Systems	7	6	12	13

For example number 1 from the list goes in the pond line under general description

List of descriptions

1. The most common production system – can produce 6,000 to 8000 pounds per acre
2. Provided by flowing or falling water
3. Usually supplied by photosynthesis and diffusion
4. Intensive system that can produce 5-10 pound of fish per cubic foot
5. Swept away flowing water
6. Supplied by generators, or pure liquid or gaseous oxygen
7. Most intensive production system – uses the least amount of water – can produce 1 lb/gallon
8. Supplied mostly by photosynthesis and diffusion but also depends on water circulation
9. Usually floating pellets but fish have access to some natural food
10. Single pass, “flow-through” system- can produce 30-100 pounds per gpm
11. Ammonia assimilated by algae and broken down by bacteria
12. Food must be nutritionally complete
13. Handled by mechanical and biological filters