

Column E Explanation

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It is common in the commercial trout industry to raise trout in raceways containing water that has been used previously. For example, 1st use water is fresh water, while 5th use water is water that has passed through four raceways. Again, this is common industry practice. However, because 5th use water has been used previously in fish culture, it is lower quality. In a study, 900 trout (fish) were reared in a 5th use water system. The trout were adapted from 3rd use water to 5th use water, which may cause some low-level stress during the adaptation process. Neither, indicators of acute stress nor reduced growth or long-lasting effects on health were observed. The stress cannot be alleviated as there are not anesthetic, analgesic, or tranquilizers that can be used without affecting the research results. The study must be conducted using 5th use water as the research objective is to identify ways to increase fish growth and performance in lower quality water.