

SOIL TEST INFORMATION SHEET NO. C-150

Prepared by Extension Agronomist John K. Saichuk

Rice

1. Unless rice is grown in rotation with soybeans, cotton or other pH sensitive crops, agricultural limestone should not be applied. When lime is needed for the alternate crop, the soil pH should not be increased to more than 5.8. Over-liming can induce a zinc deficiency in rice.
2. On soils where phosphorous or potassium are needed, apply them preplant or before first flood when applied preplant, 15-30 pounds of nitrogen may be helpful in getting the rice off to a good start.
3. All or most of the nitrogen can be applied preplant in a water seeded pinpoint flood system. In a drill seeded, dry broadcast, or water seeded delayed flood system, all or part of the nitrogen may be applied immediately before permanent flood. The balance of the nitrogen can be applied when deficiency symptoms occur, or any time up to the 2 mm panicle growth stage.

Varieties vary in their nitrogen needs as follows:

Varieties	N rate (lbs/A)
Caffey, Catahoula, Cheniere, CL111, CL131, CL142, CL161, CL162, CL152, CL261, Cocodrie, Cypress, Dellrose, Jazzman, Jazzman 2, Neptune, Rex, Roy J, Taggart, Toro-2.....	120-160
CL151, Jupiter.....	90-130
Della.....	70-100

4. Regrowth or second crop rice should be top-dressed with 75-90 pounds of nitrogen per acre immediately after harvest prior to re-flooding when the first crop harvest is before August 15. When first crop harvest is after August 15, reduce the top-dress rate to 30-45 pounds of nitrogen per acre.
5. On soil with a history of zinc deficiency, or where soil tests indicate a need for zinc, a soil application of 10 pounds of zinc from an inorganic source (zinc sulfate) or 1-2 pounds of zinc per acre as a chelate should be made.
6. Zinc can be applied foliarly at the rate of 0.5-1.0 pounds per acre as a chelate.
7. Contact your county agent for additional information and help in your fertilization program. The agent also receives a copy of this report for the parish office files.