**SOIL 4234 Laboratory #5**

**Soil pH and Liming Pre-Lab (5 points)**

**Due Wednesday, September 11th at the beginning of lab**

Student

Lab

TA

1. Name one condition that can transform neutral soils to acidic soils.
2. Solubility of \_\_\_at low pH values is detrimental to plant growth.
3. Ca2+
4. Al3+
5. K+
6. Na+
7. Average the following sets of pH values using the pH definition:

# Set 1: 5.2

5.8

5.3

Average:

1. What is the amount of tons of ECCE lime required to raise soil pH of a 6-7 in furrow slice to pH 6.8, with a buffer index of 6.9?
2. The buffer solution for determining lime recommendations utilized in this lab is:

a. SMP

b. Sikora