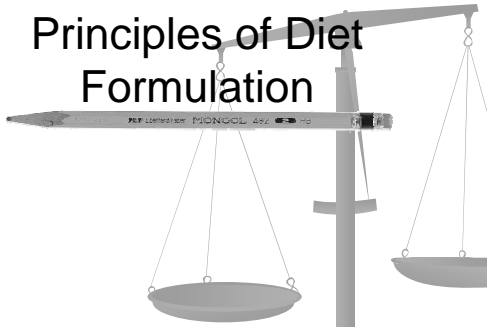
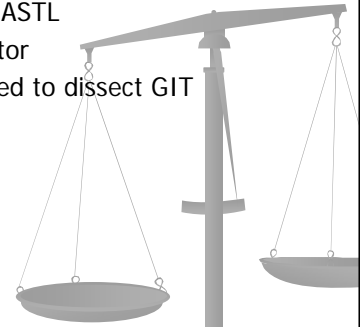


Principles of Diet Formulation



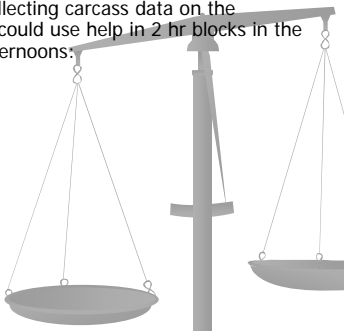
Lab Next Week...

- Will be held in ASTL
- Bring a calculator
- Also be prepared to dissect GIT
- Pictures...



Help Needed....

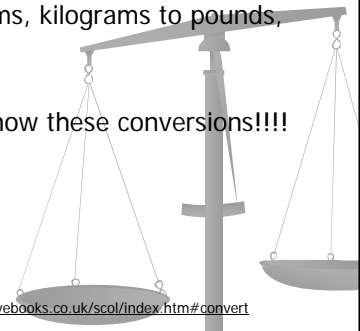
- Dr. Richert will be collecting carcass data on the following dates, and could use help in 2 hr blocks in the mornings or early afternoons:
- 1/17
- 1/24
- 1/31
- 2/7
- 2/9 (Friday)
- 2/14
- 2/21



Conversion factors...

- Pounds to grams, kilograms to pounds, etc..
- You need to know these conversions!!!!

<http://www.cleavebooks.co.uk/scol/index.htm#convert>



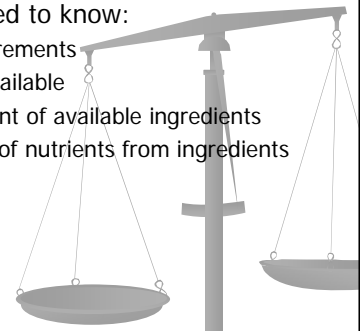
Conversion factors...

- ____g = 1 lb
- ____lb = 1 kg
- ____kg = 1 lb
- ____lb = 1 ton
- ____kg = 1 ton
- ____mg = 1 g
- ____mg = 1 kg



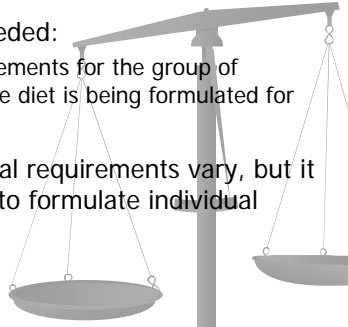
Diet Formulation

- Things you need to know:
 - Nutrient requirements
 - Ingredients available
 - Nutrient content of available ingredients
 - Bioavailability of nutrients from ingredients



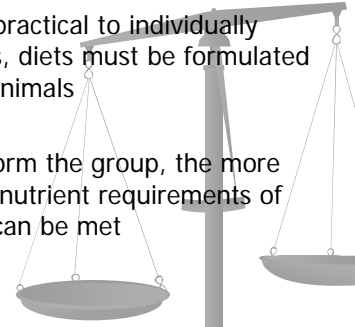
Nutrient Requirements

- Information needed:
 - Nutrient requirements for the group of animals that the diet is being formulated for
- Individual animal requirements vary, but it is not practical to formulate individual diets



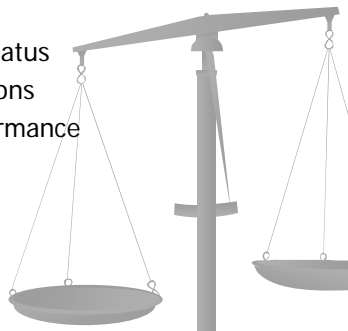
Nutrient Requirements

- Since it is not practical to individually formulate diets, diets must be formulated for groups of animals
- The more uniform the group, the more accurately the nutrient requirements of the individual can be met



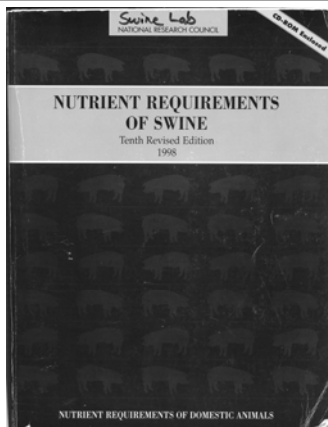
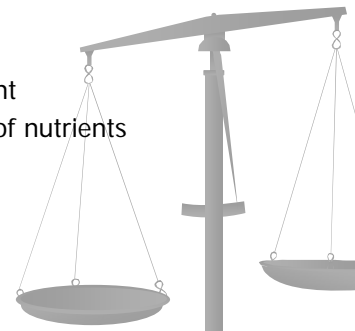
Factors Affecting Nutrient Requirements

- Age/weight
- Reproductive status
- Work expectations
- Expected performance
- Environment
- Genetics
- Health Status



Ingredients

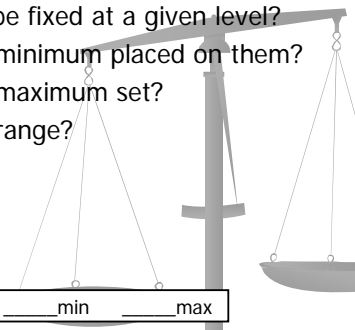
- Availability
- Cost
- Nutrient content
- Bioavailability of nutrients



Ingredients

- Which should be fixed at a given level?
- Which need a minimum placed on them?
- Which need a maximum set?
- Which need a range?

CWG _____min _____max



Nutrients

- Which nutrients need consideration?
 - Which should be fixed at a given level?
 - Which need a minimum placed on them?
 - Which need a maximum set?
 - Which need a range?

Ca _____min _____max

Hand Calculations

Diet Formulation

- When you formulate based on CP only,
other nutrients may be deficient

