Waste Calculations for *Crapshoot*:
Wednesday, September 15, 2004

1.

$$\frac{620{,}000\ people}{Vermont} \times \frac{915\ lbsN}{100\ people/\ year} \times \frac{ton}{2000\ lbs} \approx 2{,}837\ tonsN$$

$$\frac{620{,}000\ people}{Vermont} \times \frac{137\ lbsP}{100\ people/\ year} \times \frac{ton}{2000\ lbs} \approx 425\ tonsP$$

2.

$$\frac{146{,}000\ cows}{Vermont} \times \frac{.8 lbs\ N}{day} \times \frac{365\ days}{year} \times \frac{ton}{2000\ lbs} \approx 21{,}316\ tonsN$$

$$\frac{146{,}000\ cows}{Vermont} \times \frac{.41\ lbsP}{day} \times \frac{365\ days}{year} \times \frac{ton}{2000\ lbs} \approx 10{,}924\ tonsP$$

3.

$$\frac{2{,}837\ tons N}{Vermont\ \ people} \times \frac{2000\ lbs}{ton} \times \frac{1\ acre\ \ potatoes}{250 lbs N} \approx 22{,}696\ acres$$

$$\frac{21{,}316\ tons N}{Vermont\ cows} \times \frac{2000\ lbs}{ton} \times \frac{1\ acre\ \ potatoes}{250\ lbs N} \approx 170{,}528\ acres$$

Extras:

$$\frac{146{,}000\ cows}{Vermont} \times \frac{136.75\ lbs\ manure}{day} \times \frac{365\ days}{year} \times \frac{ton}{2000\ lbs} \approx 3.6\ million\ tons$$

$$\frac{146{,}000\ cows}{Vermont} \times \frac{2.3\ ft^3 manure}{day} \times \frac{365\ days}{year} \approx 123\ million\ \ ft^3 manure$$