

Poultry Litter Agronomic Application Rate Calculation Work Sheet

	Example:	Your numbers:
1a Nutrient needs of crop (lbs/acre) Recommendations based on soil test results and a realistic yield goal.	N = 200 P ₂ O ₅ = 80 K ₂ O = 40	N = P ₂ O ₅ = K ₂ O =
1b Nutrients carried over in last 2 years' applications (lbs/acre) See Table 2.	N = 25 P ₂ O ₅ = 0 K ₂ O = 0	N = P ₂ O ₅ = K ₂ O =
1c Nutrient needs to meet with litter Subtract line 1b from line 1a.	N = 175 P ₂ O ₅ = 80 K ₂ O = 40	N = P ₂ O ₅ = K ₂ O =
2 Total nutrients available in litter (lb/ton) Based on litter analysis of representative sample collected close to time of application.	N = 64 P ₂ O ₅ = 55 K ₂ O = 43	N = P ₂ O ₅ = K ₂ O =
3 Determine available nutrients (lb/ton) Multiply the value in step 2a by availability, 50% for N and 90% for P and K.	N = 32 P ₂ O ₅ = 50 K ₂ O = 39	N = P ₂ O ₅ = K ₂ O =
4a Calculate application rates to supply N, and P₂O₅ needs (tons/acre) Divide values from Step 1c by values from Step 3.	N = 5.5 P ₂ O ₅ = 1.6	N = P ₂ O ₅ =
4b Choose between N or P₂O₅ application rate (tons/acre) Select highest rate in Step 4a to use litter as complete fertilizer. Select lowest rate to maximize nutrient use.	Rate = 1.6 (based on P)	Rate =
5a Determine amount nutrients applied at chosen rate (lbs/acre) Multiply the rate chosen in step 4b by available nutrients in step 3.	N = 51 P ₂ O ₅ = 80 K ₂ O = 62	N = P ₂ O ₅ = K ₂ O =
5b Determine supplemental nutrients (lbs/acre) Subtract the nutrients applied, step 5a from nutrients needed, step 1c. If the difference is negative, enter 0.	N = 124 P ₂ O ₅ = 0 K ₂ O = 0	N = P ₂ O ₅ = K ₂ O =

This worksheet calculates the rate of application based on crop nutrient needs, either on N or P requirement. However, NRCS Code 590 Guideline dictates how much can be applied, depending on soil test P and locations.