

PA- Supplemental Guidance

2011-1

ENR-08 **Using nitrogen provided by legumes, animal manure and compost to supply 100% of the nitrogen needs**

Requires current 590 records and implementation

No nitrogen fertilizer may be used on any crop in any year.

Criteria guidance

Follow LGU recommendation for legume nitrogen production when estimating available nitrogen for crop production.

- **Selected references from Penn State**
 - **Penn State Agronomy Guide**
 - **Table 1.10-6 Characteristics of common cover crops**
 - **Table 1.2-7 Residual contributions from legumes**
 - **Agronomy Facts 71 Hairy Vetch as a Crop Cover**
 - **Agronomy Facts 67 Management of Red Clover as a Cover Crop**
- **Other Penn State and neighboring Land Grant University guidance may be consulted**

A more accurate estimate can be obtained by following the guidance in “Northeast Cover Crop Handbook” chapter 2.

- **PDF scanned chapter two attached.**

On soils where “P” levels are high or very high, manure must be applied according to phosphorous needs not nitrogen. **This corresponds to Mehlich-3 soil test P over 50 ppm.**

Soils disturbed during manure application should be followed by a cover crop that will prevent erosion and trap nutrients. **This would apply when any form of full width tillage is used to incorporate manure. Follow CP (340) Cover Crop**

Utilize cover crops to trap N were appropriate, e.g. following manure application on soils with low residue levels or that have been tilled. **Follow CP (340) Cover Crop**

Cropland & Pastureland

System/acre

Amount Applicable = Cropland acres or pastureland acres

Not applicable on adjacent land

Pastureland - No compatibility restrictions.

Cropland – Not compatible with: AIR01, AIR02, ANM21, ANM22,
SOE02, WQL06, WQL07, WQL08, WQL16