Land Base Requirement Worksheet

Herd Information

	Average weight (lbs)	Table values (lb N/yr/lb cow)	Nitrogen Excretion (lb N/yr)
Number of lactating cows:_____	x _____	x 0.172 =	_____
Number of dry cows:_____	x _____	x 0.135 =	_____
Number of heifers:_____	x _____	x 0.111 =	_____
Number of calves:_____	x _____	x 0.120 =	_____
		TOTAL =	_____

	Average weight (lbs)	Table values (lb P_2O_5/yr/lb cow)	P Excretion (lb P_2O_5/yr)
Number of lactating cows:_____	x _____	x 0.077 =	_____
Number of dry cows:_____	x _____	x 0.045 =	_____
Number of heifers:_____	x _____	x 0.032 =	_____
Number of calves:_____	x _____	x 0.077 =	_____
		TOTAL =	_____

Field Information

Crop receiving manure: _____   Yield goal:_____

N removal by crop:_____ (lbs N/acre)

$$\textit{N-based Land Base} = \frac{\textit{Total N excretion (lbs/year)}}{\textit{N removal (lbs/acre)}} = \underline{\qquad} \textit{acres}$$

P removal by crop:_____ (lbs P_2O_5/acre)

$$\textit{P-based Land Base} = \frac{\textit{Total } P_2O_5 \textit{ excretion (lbs/year)}}{P_2O_5 \textit{ removal (lbs/year)}} = \underline{\qquad} \textit{acres}$$