

**Cornell Nutrient Management Spear Program****Mass Nutrient Balance Calculator Input Sheet***N, P and K imports and exports: 1/1/2020 to 12/31/2020*

Producer Contact Information		Data Collection	
Producer name		By	
Farm name		Email	
Address			
City, state, zip		Balance year	2020
Phone			
E-mail			

Farm Information		Watershed	
Total farm acres		Primary watershed	
All tillable owned and rented crop and pasture acres		Secondary watershed	
Legume acres (perennial and annual) >10% legume		Soil Type	
Acres receiving manure (crop and pasture)		Primary soil type	
No. months manure storage		Secondary soil type	

Have you completed a Cornell Dairy Farm Business Summary (DFBS) for the balance year?

Have you completed a Farm Credit Business Summary for the balance year?

Are you a Certified Organic producer?

Intensive Grazing (grazed at least 3 months/yr, moved to a new pen every 3 days or more)?

Do you have a Comprehensive Nutrient Management Plan (CNMP) for the balance year?

Do you have a Cornell Cropware plan for the balance year?

Are heifers raised off-farm?

Average number and weight of farm livestock			
Animal Group		Number	Weight (lbs/head)
Cattle	Milking and dry cows		
	Heifers 1-2 year		
	Heifers <1 year		
	Calves		
	Bulls and steers		
Other livestock			

Dairy cow breed(s)	
Cull rate (%)	

FARM CROP PRODUCTION

Crop name	Area (acres)	% Legume	Manure applied	CP (%DM)	P (%DM)	K (%DM)	Crop type*	Yield (t/a)	DM (%)	Inventory (tons)	
										Beginning year	Ending year

* Crop type = "Forage", "Grain" or "Bedding"

IMPORTS

Feeds (purchased)	Tons /year	%DM	CP (%DM)	P (%DM)	K (%DM)	Feed type*	% forage (if TMR)	Inventory	
								Beginning year (as fed tons)	Ending year (as fed tons)

* Feed type = "Grain", "Forage" or "TMR"

Purchased fertilizers	Tons/year	% N	% P ₂ O ₅	% K ₂ O	Comment

Purchased animals	Type*	Description	Number	Weight/hd (lbs)

* Type = "Dairy", "Beef", "Swine", "Poultry", "Goats", "Sheep" or "Horses"

Bedding, manure and miscellaneous imports	Amount	Units*	% DM (% solids if manure)	N	P	K	Units** (as sampled)

* Units = "tons/year" or "gallons/year"

** Units = "%", "lbs/ton" or "lbs/1000 gallons"

EXPORTS

Milk sold (lbs/year)	Milk protein (%)	Milk fat (%)	Milk urea nitrogen (MUN) (mg/dl)

Animals sold	Type*	Description	Number	Weight/hd (lbs)

* Type = "Dairy", "Beef", "Swine", "Poultry", "Goats", "Sheep" or "Horses"

Crops sold	Tons/year	%DM	CP (%DM)	P (%DM)	K (%DM)	Feed type*	
							% forage
TMR							

* Feed type = “Grain”, “Forage” or “TMR”

Manure, compost and other exports	Amount	Units*	% solids	N	P	K	Units** (as sampled)

* Units = “tons/year” or “gallons/year”

** Units = “%”, “lbs/ton” or “lbs/1000 gallons”

SUPPLEMENTAL INFORMATION

Data	How data are collected
Crop yields*	
Crop nutrient values**	
Manure import nutrient values**	
Manure export nutrient values**	

* “Yield monitor”, “Farm scales”, “Field scales”, “Truck load tally” or “Other”

** “Measurements/analysis”, “Book values”, “3-year running average”, “Expert judgement” or “Other”

Manure analysis	% solids	N	P	K	Units* (as sampled)

* Units = “%”, “lbs/ton” or “lbs/1000 gallons”