









Cornell Nutrient Management Spear Program Mass Nutrient Balance Calculator Input Sheet N, P and K import and exports: 1/1/2021 to 12/31/2021

Producer Contact	Information		Data Collection
Producer name		Ву	
Farm name		Email	
Address			
County and State			
Phone]	
E-mail		Balance year	2021

Farm	Information	Watershed		
	250	Primary watershed		
All tillable owned and rente	ed crop and pasture acres	140	Secondary watershed	
Legume acres (perennial a	and annual) >10% legume	140	Soil Ty	pe
Acres receiving m	100	Primary soil type	Palmyra	
Milk marketing co-operative	Organic Valley		Secondary soil type	Honeyoe

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 Cropware plan for the balance year? Are heifers raised off-farm? If yes, what age group?		
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Do you have a Cropware plan for the balance year?	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?	
Are heifers raised off-farm?	Do you have a Cropware plan for the balance year?	
	Are heifers raised off-farm? If yes, what age group?	

Average nu	mber and weight of far	m livestock			
A	nimal Group	Number	Weight (lbs/head)		
Cattle	Milking and dry cows	48	1400	Dairy cow breed(s)	Heletein
	Heifers 1-2 year	1	1200		noistein
	Heifers <1 year	1	600	Cull rate (%)	14.5
	Calves				
	Bulls and steers				
Other livestock					



Farm contact information

Acres of land

Miscellaneous characteristics

Animal types, numbers, weights, breeds.



FARM CROP PRODUCTION

										Inventory	(tons)
Crop name	Area (acres)	% Legume	Manure applied	CP (%DM)	P (%DM)	K (%DM)	Crop type*	Yield (t/a)	DM (%)	Beginning year	Ending year
Pasture	70	70	✓	23.89	0.37	2.81	Forage	6	29.9	0	0
1st cutting	70	50	✓	12.6	0.27	2.38	Forage	3.14	44.1	0	0
2nd cutting	70	50	✓	15.8	0.4	2.35	Forage	1.08	57.4	0	0
3rd cutting	70	50	✓	15.7	0.5	2.98	Forage	1.41	47.5	0	0
4th cutting	40	50	✓	15.7	0.5	2.98	Forage	0.69	47.5	0	0

^{*} Crop type = "Forage", "Grain" or "Bedding"

IMPORTS

								Inventory	
Feeds (purchased)	Tons /year	%DM	CP (%DM)	P (%DM)	K (%DM)	Feed type*	% forage (if TMR)	Beginning year (as fed tons)	Ending year (as fed tons)
grain	24	90	18	.34	.85	Grain		0	0
dry hay(228)	34.2	91.83	12.39	0.26	1.91	Forage		0	0
1st baleage(222)	106.89	67.2	10.2	0.14	1.36	Forag ▼		0	0
						Forag 🔻		0	0
2nd baleage(25)	12.04	67.2	10.2	0.14	1.36	Forag ▼		0	0
2nd baleage(30)	14,45	67.2	10.2	0.14	1.36	Forag		0	0
						İ			
						1			
						1			
						1			
						1			
						1			

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Farm crop production

These values will not impact the balance calculation (inside the farm boundaries) but accurate data will help with identification of "issues" or "opportunities to improve"

Feed imports



Tons/year	% N	% P ₂ O ₅	% K₂O	Protected N source*? If yes, which one?
	Tons/year	Tons/year % N	Tons/year % N % P ₂ O ₅	Tons/year % N % P ₂ O ₅ % K ₂ O

^{*} Enhanced efficiency fertilizer, e.g. nitrification inhibitors, urease inhibitors, slow release fertilizer

Purchased animals	Type*	Description	Number	Weight/hd (lbs)
none				

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

Bedding, manure and miscellaneous imports	Amount	Units*	% DM (% solids)	N	P	К	Units** (as sampled)
straw 60 bales@600#	18	tons/year					
sawdust 50 10cubic yards	1.8	tons/year					

^{*} Units = "tons/year" or "gallons/year"

EXPORTS

Milk sold	Milk protein	Milk fat	Milk urea nitrogen (MUN)
(lbs/year)	(%)	(%)	(mg/dl)
835,000	3.08	4.12	

holstein cull dairy	1300
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^{*} Type = "Dairy", "Beef", "Swine", "Poultry", "Goats", "Sheep" or "Horses"

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Fertilizer purchases

Animal purchases

Bedding and miscellaneous imports

Milk sold and CP

Animals sold or exported off the farm

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

Crops sold	Tons/year	%DM	CP (%DM)	P (%DM)	K (%DM)	Feed type*	
60 bales baleage	40.25	49.67	14.7	0.39	2.57	Forage	
		Values	average	from	cuttings		
							% forage
TMR							

^{*} Feed type = "Grain", "Forage" or "TMR"

Manure, compost and other exports	Amount	Units*	% solids	N	Р	K	Units** (as sampled)
none							

^{*} Units = "tons/year" or "gallons/year"



Crops sold or exported off the farm

Manure, compost or other exports



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