



**FARM STRATEGY:**

*“Developing a viable farm with grazing.*

*Key points: mineral efficiency, integrate nature in the farm, preventing soil subsidence by means of under water drainage”*

**FARM CHARACTERISTICS 2022:**

Soil type	veen
Grassland (incl. 6.7 ha natural grassland)	52,5
Maize (ha)	11,0
Ha natural land	10
Cows	143
Young stock	44
Young stock/10 cows	3,1
Quota (kg)	1.358.922
Milk production (kg/cow/yr)	9.503
Intensity (kg milk/ha)	18.587
Compound feed (cow/year)	2.544
Incl. young stock	
Milking parlour	2x12 side by side
Stable	Free Walk

**MILESTONES :**

- 1995- Taking over the farm
- 2001- New young cattle shed
- 1997-2011- Purchase 14 ha land, 290.000 kg milk quota
- 1998 - Participant Koeien & Kansen
- 2013 - Building compost bedded pack barn
- 2021: Test facility Hanskamp with Bedding Cleaner in a sand bed

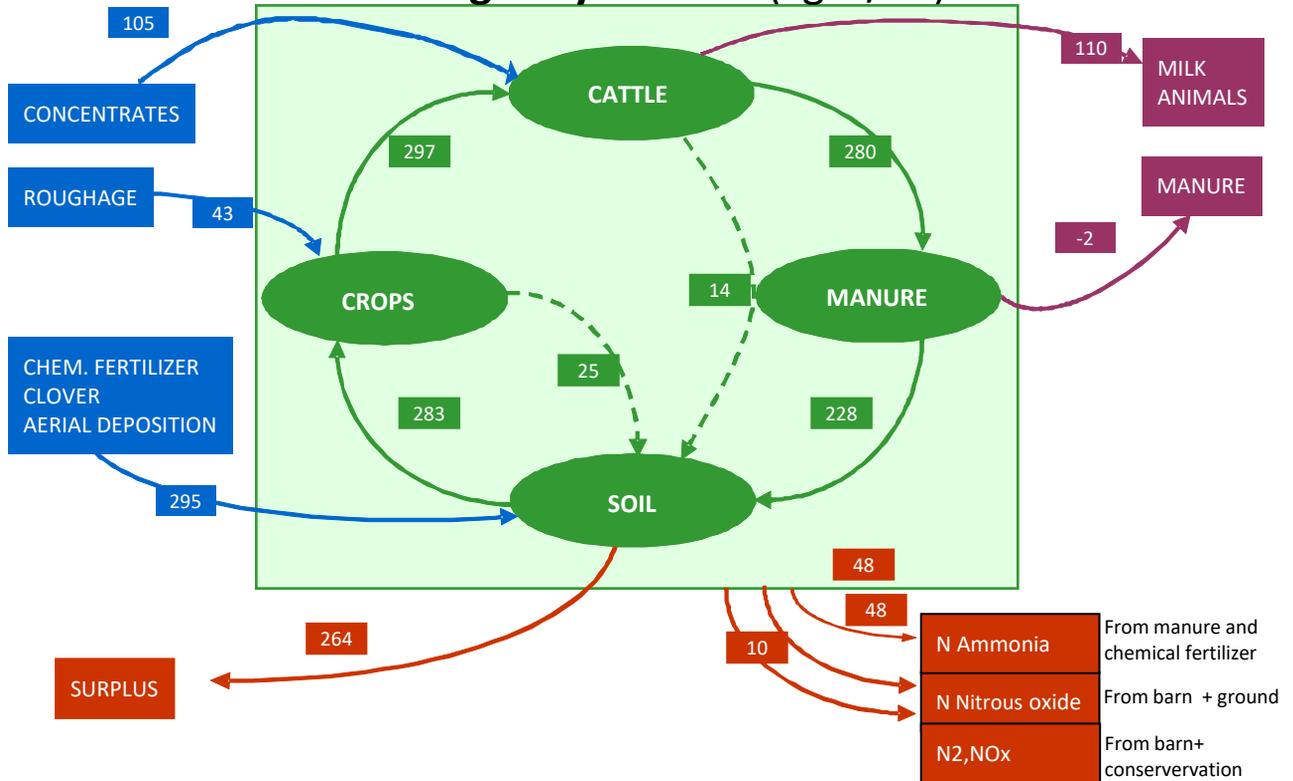


# Fertilization 2022

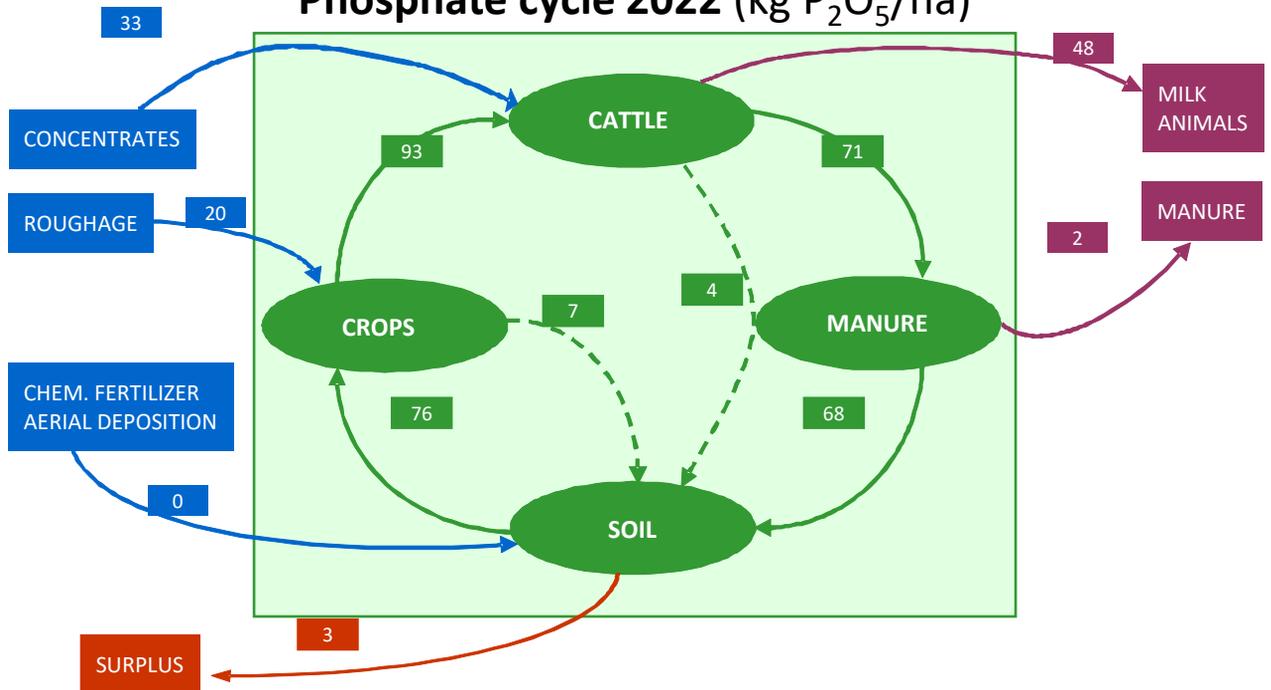
(per ha)	Nature grass			Grassland			Maize		
	m <sup>3</sup>	kg N	kg P <sub>2</sub> O <sub>5</sub>	m <sup>3</sup>	kg N	kg P <sub>2</sub> O <sub>5</sub>	m <sup>3</sup>	kg N	kg P <sub>2</sub> O <sub>5</sub>
Slurry	55	20	5	-	239	73	45	125	52
Chemical fertil.	0	0	0		86	0		53	0
Manure (graz.)- mineralization	3	1			69	18		0	0
deposition		235			235			0	
		22			22			22	
<b>TOTAL</b>		280	6		650	91		200	52

\* Gross amount of N, so incl. NH<sub>3</sub> losses during application/grazing  
The amount of nitrogen is not only the active part, but total

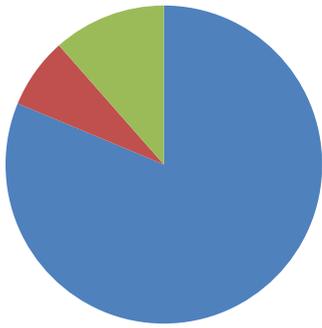
## Nitrogen cycle 2022 (kg N/ha)



## Phosphate cycle 2022 (kg P<sub>2</sub>O<sub>5</sub>/ha)



## Farm economics (2021)



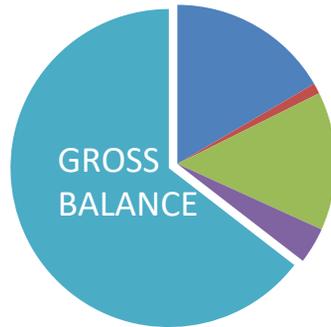
### YIELDS

- milk
- animal
- others

€/100 kg milk	
<b>YIELDS</b>	
milk	39,52
animal	3,50
other	5,60
	48,63
<b>COSTS</b>	
concentrate	7,63
roughage	0,49
other fodders	2,21
breeding	0,65
animal health	1,67
other animal costs	3,70
fertilization	0,70
other crop costs	0,53
Cost for manure disposal	0,45
Other. variable costs	0,91
<b>Total costs</b>	<b>18,95</b>
<b>GROSS BALANCE</b>	<b>29,68</b>

### COSTS

- concentrate
- roughage
- animal costs
- Crop costs



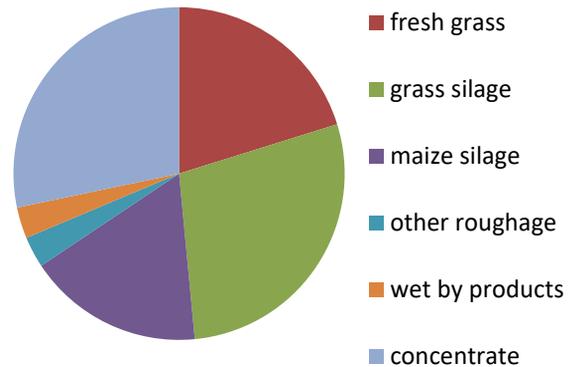
## Animal Nutrition 2022

### Ration characteristics complete herd

RE-VEM (energy)-content ration (g/kg dm)	981
content total ration (g/kg dm)	156
P content ration (g/kg ds)	3.3
kg concentrate / 100 kg milk (incl. young)	27
Nitrogen efficiency complete herd (%)	28
Phosphate efficiency complete herd (%)	40
kg FPCM / kg dm feed intake	1.26

### Ration composition (%)

fresh grass	20
grass silage	28
maize silage	17
other roughage	3
wet by products	3
concentrate	28



## Improvement projects

### ECONOMY

- Controlling cost with a focus on animal health
- Sustainable dairy herd



### ENVIRONMENT

- Meet the legal standards
- Methane emission
- Make more manure storage
- Sow more clovers/herbs

### LABOUR

- reduce working time by building stable with parlor

## Steps

Period	Action	Improvement
2011	Reduce costs animal health	higher yield per kg milk
2011	Building bedded pack barn	improvement cow welfare and labour
2011	Replace concentrate + more corn in ration	reduction methane (CH4) emission
2017	Crossbreeding with Jersey	more efficient cow
2017	Farm water Index	better water quality
2022	Participation Low Carbon Farming	

*“Family business with outdoor grazing for healthy cows”*



*“Accurately feeding is very important. Take enough time, because with a good feed efficiency the cows are healthier.”*

*“Prevention of soil subsidence, reaching a better carrying capacity by underwater drainage and clay in peat.”*



Pilot farmers are also members of the Dutch project Cows & Opportunities. In this project 16 dairy farmers, KTC De Marke, Wageningen UR and advisory services cooperate. On request of the ministry of Agriculture and the Dairy Board the project evaluates and improves the effectiveness and feasibility of the (proposed) environmental legislation in farm practice and supports the Dutch dairy sector with its implementation. Cows & Opportunities works at a future for neat dairy farmers. The results are found at: [www.koeienkansen.nl](http://www.koeienkansen.nl) (in Dutch).