



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 :

Soil type	soil
Grassland (ha)	58
Maize (ha)	7.75
Ha other fodders	0.0
Ha agriculture	0.0
Cows	116
Young stock	4.1
Young stock/10 cows	4.9
Quota (kg)	1.076,309
Milk production (kg/cow/yr)	9,263
Intensity (kg milk/ha)	18,560
Concentrate use (kg/100kg milk)	25
Milking parlour	2x12 side by side
Stable	Free Walk

MILESTONES :

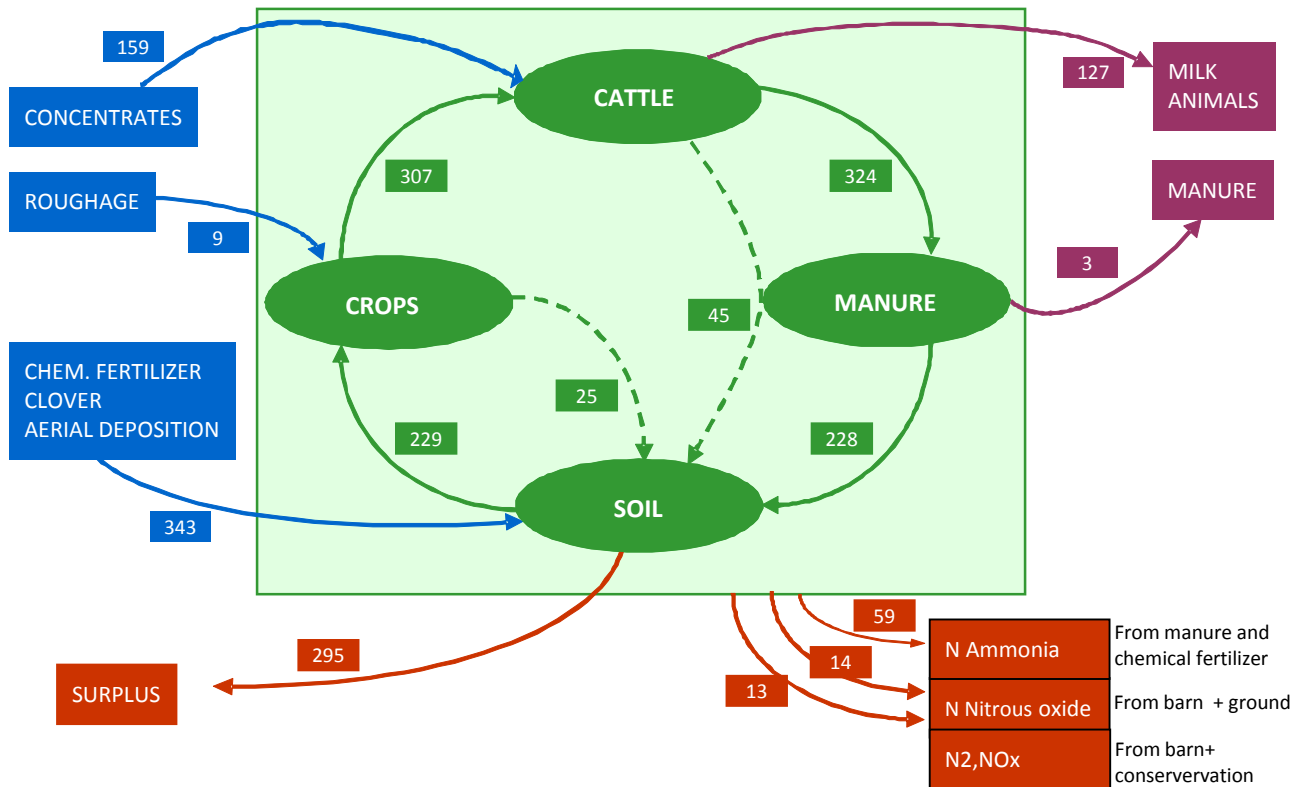
- 1995- Taking over the farm
- 2001- New young cattle shed
- 1997-2011- Purchase 14 ha land, 290.000 kg milk quota
- 1998 - Participant Koeien & Kansen
- 2013 - Building compost bedded pack barn



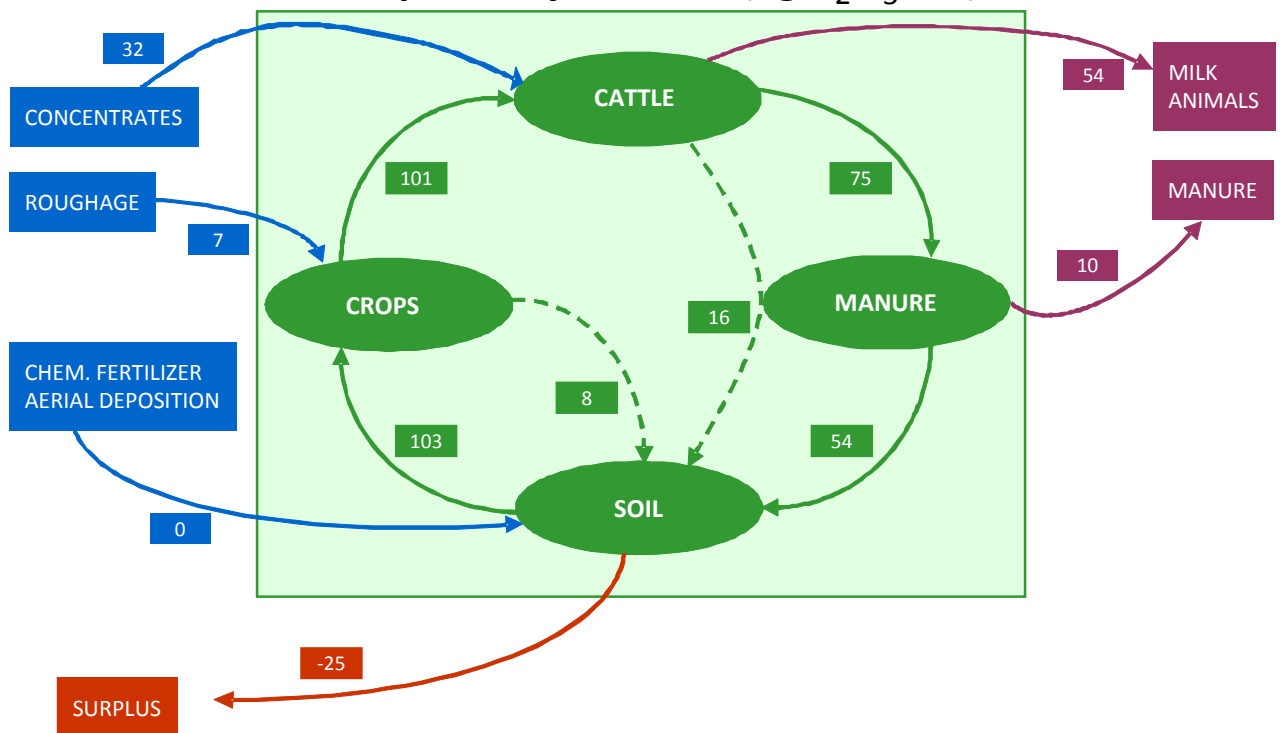
Fertilization 2017

(per ha)	Grassland			Maize		
	m ³	kg N	kg P ₂ O ₅	m ³	kg N	kg P ₂ O ₅
Slurry	61	279	62	42	157	45
Chemical fertil.	-	124	0	-	86	0
Manure (graz.)	-	55	13	-	-	-
TOTAL		458	75		243	45

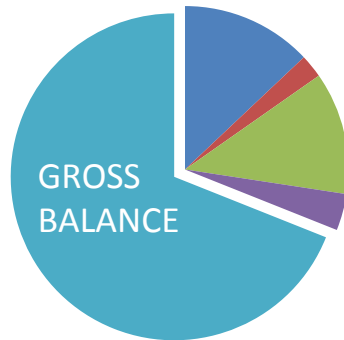
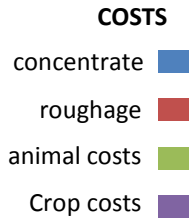
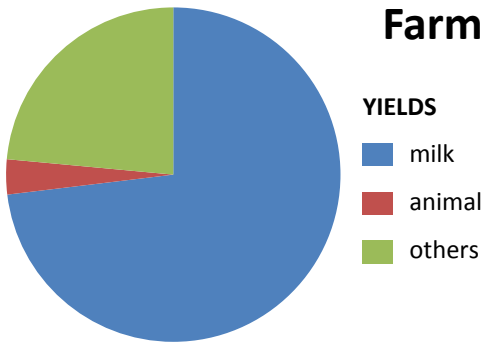
Nitrogen cycle 2017 (kg N/ha)



Phosphate cycle 2017 (kg P₂O₅/ha)



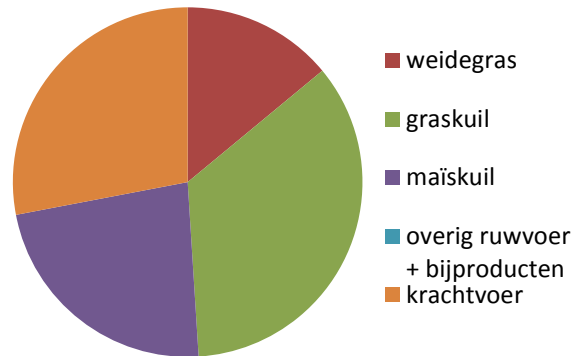
Farm economics (2017)



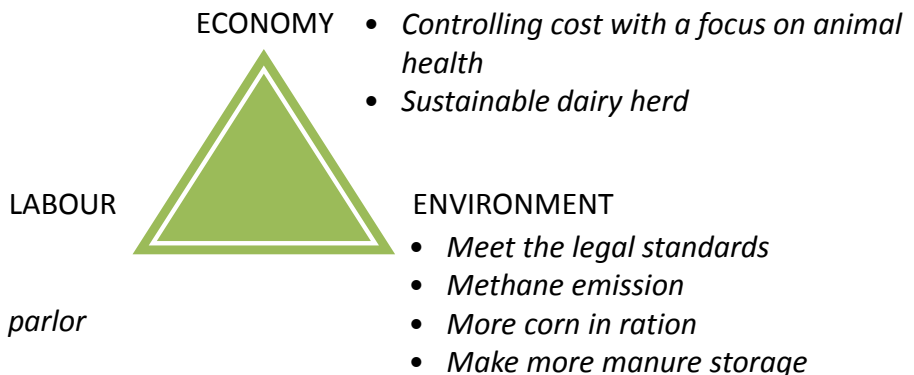
€/100 kg milk	
YIELDS	
milk	39.3
animal	2.4
other	0.1
	41.8
COSTS	
concentrate	6.7
roughage	0.9
other fodders	1.4
breeding	0.7
animal health	2.3
other animal costs	2.5
fertilization	0.8
other crop costs	0.3
	15.8
GROSS BALANCE	26.0

Animal Nutrition

Ration characteristics complete herd	
VEM (energy)-content ration (g/kg dm)	994
RE-content total ration (g/kg dm)	156
P content (g/kg dm)	3.1
kg concentrate / 100 kg milk (incl. young)	25
Nitrogen efficiency complete herd (%)	28.2
Phosphate efficiency complete herd (%)	42.0
kg FPCM / kg dm feed intake	1.27
(%)	
fresh grass	15
grass silage	41
maize silage	15
other roughage+by products	3
concentrate	26



Improvement projects



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

“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.”



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 (in Dutch).