



"to realize a more closed nutrient cycle on your farm, fertilizing should be aligned with crop yields and nutrient removal through harvest. Therefore, a farm-specific manure application standard is the only way."

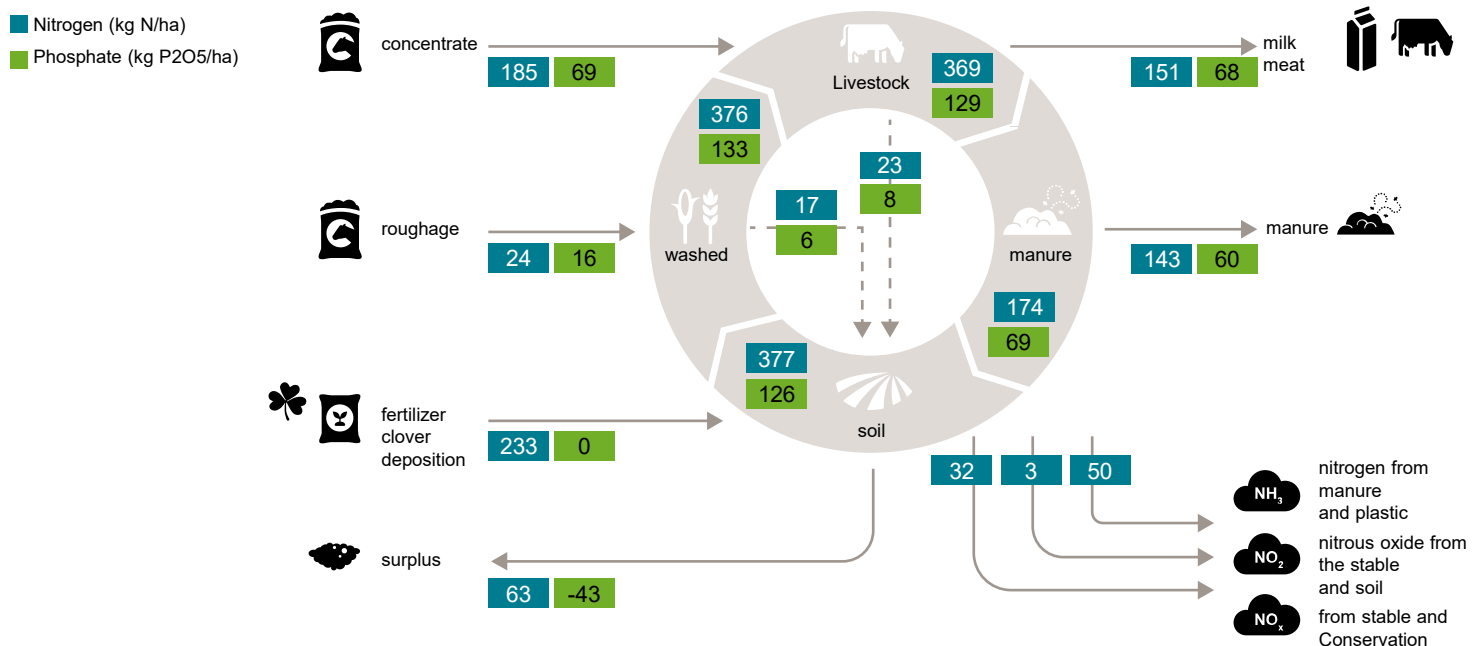
Farm characteristics 2025

soil type	grassland (ha)	wheat (ha)	cows	youngstock
Clay	38,1	8,7	121	63
young stock/10 cows	milkproduction (kg)	milk production (kg/cow.yr)	intensity (kg mil/ha)	concentrate use (kg/100kg milk)
5,2	1.191.933	10.7500	27.780	(kg at 88% dm) 33

Project goals Baltus

		result 2024	goal 2025	result 2025	goal 2026
total-CP to in ration of livestock	gr/kg ds	151	<151	148	<150
home-grown protein (including protein from the neighbourhood)	%	65	>65	65	>65
ammonia emission per ha	kg NH ₃ /ha	60	<56	61	<57
greenhouse gas emission (allocated to milk production)	kg CO ₂ -eq/kg FPCM	699	<750	592	<750
methane rumen fermentation (not allocation to milk production)	kg CH ₄ /100kg milk	13,0	<15,5	13,0	<15,5
nitrogen surplus in the soil	kg N/ha	81	<124	65	<135
phosphate surplus	kg P ₂ O ₅ /ha	-63	<0	-43	<0

Nitrogen - and Phosphate cycle 2025



																																			
	Production grassland	Silage maize																																	
(ha/kg)	<table><tr><th>m₃</th><th>N</th><th>P₂O₅</th></tr><tr><td>64</td><td>208</td><td>83</td></tr><tr><td></td><td>175</td><td>0</td></tr><tr><td></td><td>0</td><td></td></tr><tr><td></td><td>67</td><td></td></tr><tr><td>total</td><td>450</td><td>83</td></tr></table>	m ₃	N	P ₂ O ₅	64	208	83		175	0		0			67		total	450	83	<table><tr><th>m₃</th><th>N</th><th>P₂O₅</th></tr><tr><td>40</td><td>144</td><td>51</td></tr><tr><td></td><td>69</td><td>0</td></tr><tr><td></td><td></td><td></td></tr><tr><td>total</td><td>213</td><td>51</td></tr></table>	m ₃	N	P ₂ O ₅	40	144	51		69	0				total	213	51
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slurry*																																			
fertilizer																																			
meadow manure*																																			
deposition																																			
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*Net amount of fertilization, so excl. NH3 losses during administration. The amount of nitrogen is not only the active part, but total.

Quality roughage 2025

	Production grassland	Silage maize
Dry matter yield (kg DS/ha)	17.630	11.460
VEM yield (kVEM/ha)	16.080	12.010
VEM content harvested product (/ha)	912	1.048
RE content harvested product (/kg ds)	147	62

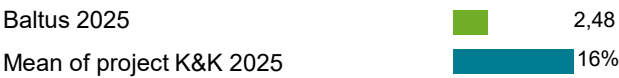
KPI Herb-Rich Grassland | KPI Nature and Landscape 2025



Measures Baltus:

- all plots have been overseeded with clover
- landscape The clovers do better some years than others
- cleaning ecological ditches sown 2 hectares of herb-rich grassland, but I'm not really positive about this

Measures to promote nature and landscape on total area



Percentage of herb-rich grassland relative to the total area



‘What’s better for the soil, spraying Roundup once or plowing the land with a lot of diesel and turning the soil life upside down?’

