



Anwendungsbericht/User Application Report

Produkt/Product:

penergetic p
Art. Nr: 4000

penergetic b
Art. Nr: 3000

penergetic g
Art. Nr: 2030

Anwender/User:
Felderer Christoph

Tirol/Austria

Fachberater/Consultant:

Christof Weber
Penergetic Austria

Datum/Date:

2010-2018

Application on meadow long-term phosphor evaluation

Cewe GmbH, an agricultural laboratory in Austria, made examinations of 5 fields in Tirol Austria. The first soil samples of farmer Christoph Felderer had been taken in October 2010. 2013 the farmer started using penergetic b and penergetic p. The latest examination shows an important increase when it comes to the plant available P_2O_5 .

Methodology

- Soil samples were taken by the farmer
- examined by cewe GmbH in Nussbach.



Treatments

Table 1: Application & Dosage of penergetic b (for soil) and penergetic p (for plants)

Period	Product	Soil treatment spring	Plant treatment after each cut	Soil treatment autumn	remarks
	soil/plant	g/ha ml/ha	g/ha ml/ha	g/ha	
2013-2016	penergetic b + molasses b	1000 g + 250 ml			Application mixed with liquid manure
	penergetic p + molasses p		300 g + 300 ml		
	penergetic b			500g	
2017-2018	penergetic b + molasses b	1000 g + 250 ml			Spray application mixed with water
	penergetic p + molasses p		500g + 500ml		
	penergetic b			500g	



Results and photos of the fields

The evolution from the first test results in 2010 until 2018 shows an increase of 77% Phosphor. The average of plant available P₂O₅ got from 5mg / 100g soil sample to 8.8mg / 100g soil sample. The amount of plant available P went from 21.67mg / 1000g soil sample to 38.40mg / 1000g soil sample.

UNTERSUCHUNGSBEFUND / EXAMINATION RESULT

Befund Nr.: 1450/2010

Nußbach, am 15.10.2010

1. Probanden (laut Probenentnahmeprotokoll / Sample data (according to sampling protocol)

2. Befund / Results

Lab Nr	Flurbezeichnung / Field designation	culture	pH CaCl ₂	mg/100g Soil sample					mg/1000 Soil sample			mmol iÄ/kg	%			
				Plant available				Nges	Plant available							
				P ₂ O ₅	K ₂ O	Mg	Ca		P	K	Mg			KAK	Humus	
2987	Lower field right	GL	6,5	6	B	14	C				26	B	116	C		
2988	Lower field left	GL	6,5	4	A	9	B				17	A	75	B		
2989	Upper field	GL	6,7	5	A	10	B				22	A	83	B		

Penergetic user since 2013.

Evolution 2010 – 2018

Ø 5 - 21,67

Ø 8,8 - 38,40

Increase from

2010 – 2018 ⇨

+ 77 % Phosphor!

UNTERSUCHUNGSBEFUND

/ EXAMINATION RESULT

Befund Nr.: 4171/2018

Nußbach, am 03.10.2018

2. Befund / Results

Lab Nr	Flurbezeichnung / Field designation	culture	pH CaCl ₂	mg/100g Soil sample					mg/1000g Soil sample			mol l/kg	%			
				Plant available				Nges	Plant available							
				P ₂ O ₅	K ₂ O	Mg	Ca		P	K	Mg			KAK	Humus	
12727	Lower field left	GL	6,2	8	B	21	D				35	B	174	D		
12728	Lower field right	GL	6,6	8	B	29	D				35	B	241	D		
12729	Upper field	GL	6,3	8	B	20	C				35	B	166	C		
12730	Fishers field	GL	6	9	B	28	D				39	B	232	D		
12731	Special area	GL	6,3	11	C	25	D				48	C	208	D		

cewe GmbH
Landwirtschaftliches Labor
Profibürozentrum gemäß § 46 OÖ
Bodenschutzgesetz 1991 und § 15
Österreichs landwirtschaftliches Bodenschutzgesetz
1987, autorisiert durch Kompostgut-Verband
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Telefon: (07587) 6030
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email: landwirtschaftliches.labor@cewe.at



Figure 1: Report of the cewe laboratory for agriculture

Summary / Results

The trial started 2013 because of unsatisfactory results (quantity and quality) in harvest. In the first years the penergetic products were spread with liquid manure. After approx. 2 years of application an increase in yield and a significantly higher quality of the harvest could be observed. The crop did not become woody even when it was cut too late. Furthermore, the feed was readily accepted by the animals. Over the longer period of use, these effects became more and more visible. The amount of "weeds" has also decreased significantly.

In 2017 a field sprayer was purchased for regular application. This enables the farmer to dose the penergetic product more precisely, which is also reflected in the results.

Customer Statement

"The use of Penergetic products has paid off in our farm over the years, even though visible results cannot be expected in the first year." Farmer Christoph Felderer uses the penergetic products ever since 2013. 2020 he still counts among the many convinced penergetic user.



Impression:



Figure 2: treated field



Figure 3: treated field and field sprayer



Figure 4: Christoph Felderer

