

Reference: Agriculture and Gardening

Crop: Spring Barley

Place of Cultivation: Denmark

Contact Person: Danish Agricultural Advisory Service, Carl Åge Pedersen



Purpose of the treatment: To research the effect of Terra Biosa on Spring Barley, when added to pig slurry.

Application pattern: For the research, not treated slurry as well as slurry added Terra Biosa, was supplied to the field before sowing.

Results: In both research cases, the adding of Terra Biosa caused a little increase to the yield, though not significant.

Spring barley	Graduation of brackling in harvest, 0-10	Pct. raw protein in dry matter	Yield, kg N in grain pr. ha	Yield and increase, hkg grain pr. ha
Standard fertiliser	1	11,1	86	57,2
120 N	5	12,9	128	16,2
120 total-N in pig slurry, supplied	3	11,8	110	11,6
120 total-N in pig slurry + 70 l Terra Biosa, supplied	3	12,3	118	13,2
LSD				7,3

Table 1: N-effect of pig slurry added Terra Biosa for spring barley (2003, 2 researches).

Avg. N-min in the root zone, kg N pr. ha: 119 (114-123)

Avg. opt. N-amount, kg N pr. ha: 104 (87-120)

Avg. increase of yield at opt. hkg pr. ha: 15,9 (11,8-19,9)

Fertiliser, amount, content and values	Added amount, ton pr. ha	Total-N, kg pr. ton	NH4 -N, kg pr. ton	Values

Pig slurry supplied	28,8	4,0	3,1	61
Pig slurry + Terra Biosa, supplied	28,0	4,0	3,1	73

Table 2: N-effect of pig slurry added Terra Biosa for spring barley (2003, 2 researches)

It has to be pointed out that the test results are based on a small research (thereby the high LSD values), but never the less, it shows a tendency towards a 20% increased utilization of nitrogen when the pig slurry is added Terra Biosa.