

Havana Farming Our experience

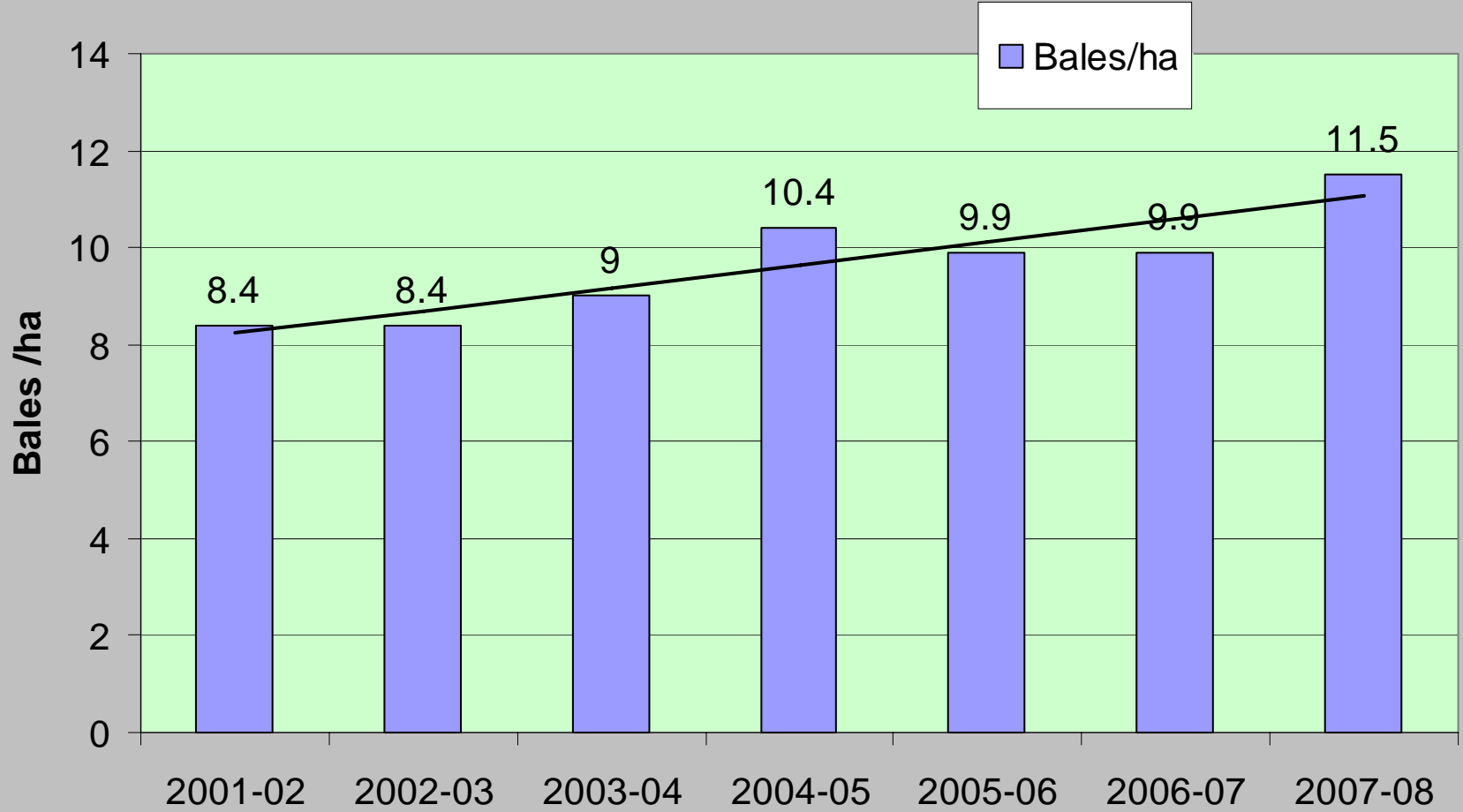


What we have done

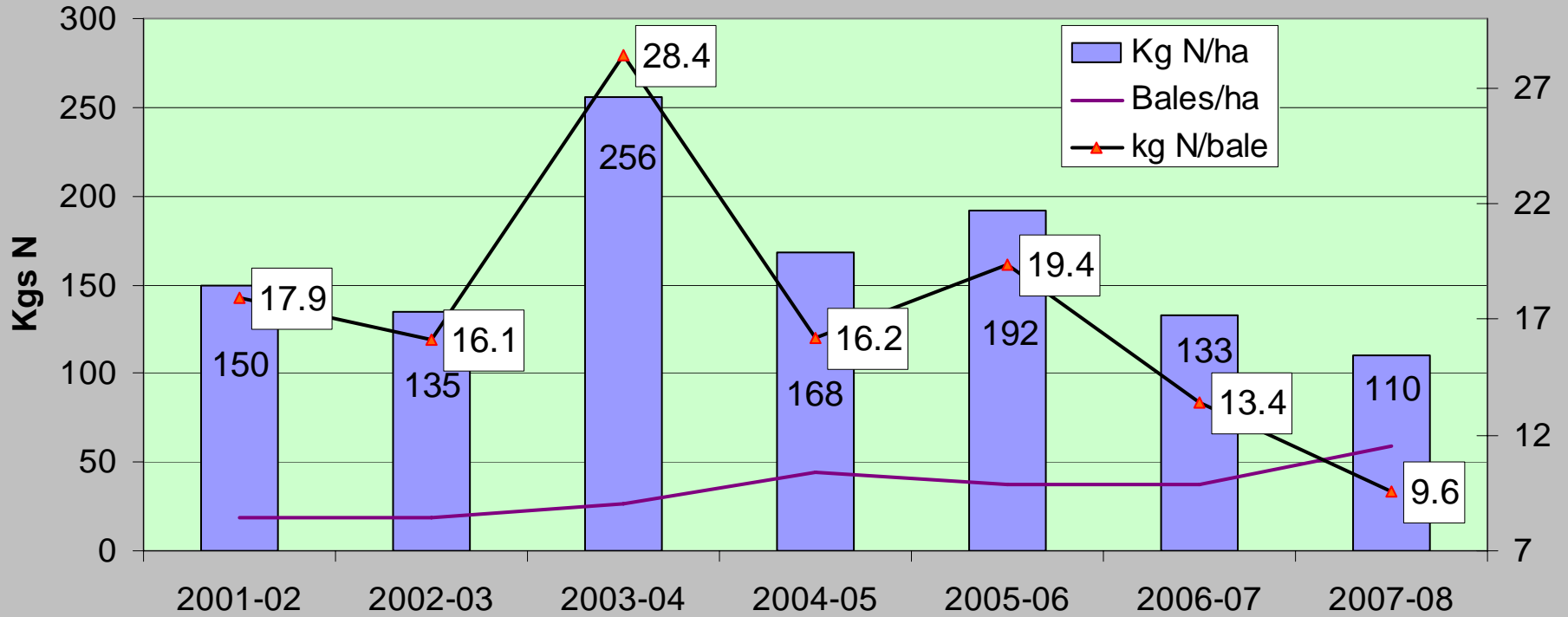
- Field average: 7.4 bales/ha.
- In 1999 we decided to put this field into lucerne.
- In 2005 we planted Sicot 71BRR
- It produced 11.8 bales a ha.
- A good result. This was the field that was ultimately responsible for our nomination for the Grower of the year Awards.

- 4 years is a long time to leave a field out of production so in 2001 we committed to a vetch rotation
- Most fields have had 3 Vetch crops
- The bio mass was measure at 5 Ton per ha of dry matter for the 1st crop
- Equivalent to 200kgs N@40kgs N/Ton
- Yields are increasing
- 1st crop was irrigated
- Subsequent crops have relied on rainfall

Havana Yields 2001-08



Applied N /ha / Bale



Vetch Cost/Benefits

Cost of seed & sowing: \$45/ha

- Applied N reduction: 60Kgs in the 1st year
- Soil Structure improvements. Friable & easier to sow into moisture.
- Disease: Black root rot is less evident.
- Is the vetch allowing the plant access to more nutrients? I suspect so.

What did not work

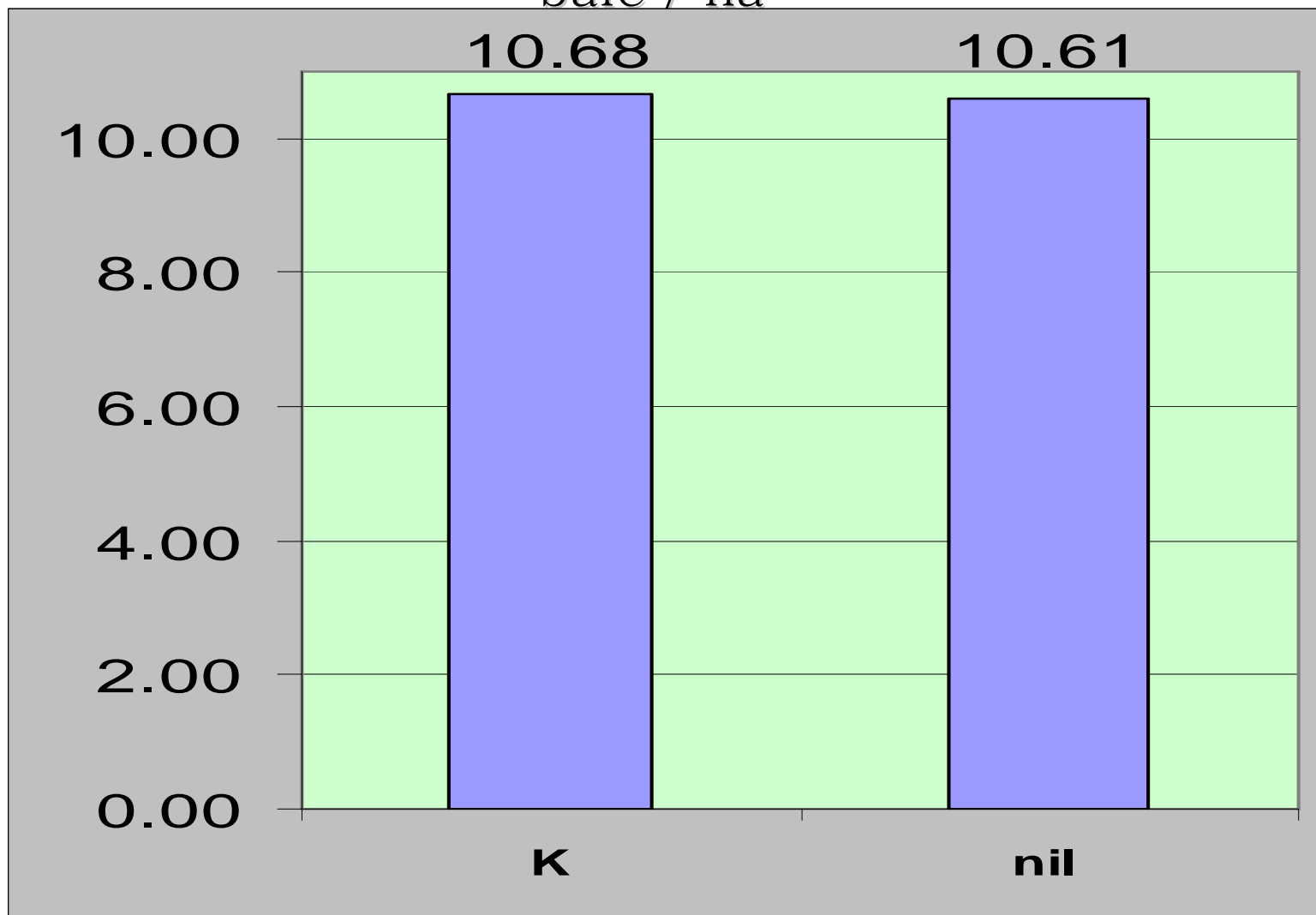


Pottassium trials 2007/08

- Potassium trials were done on 2 field in 2007 & 1 field in 2008
- The trials were not replicated across the field but were simply in strips in close proximity to each other and measured by module weight.

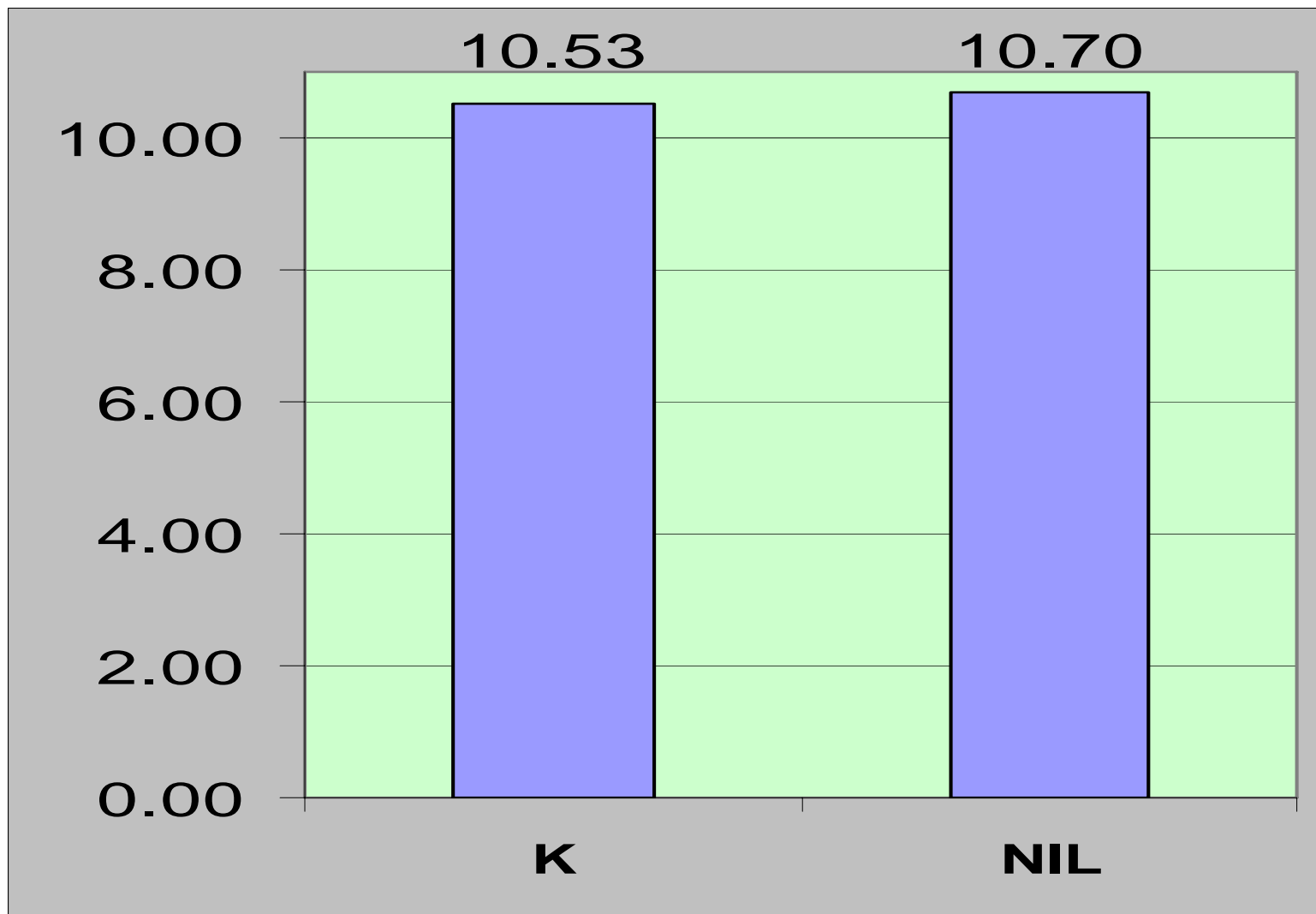
2007 Field 5 K trial

bale / ha

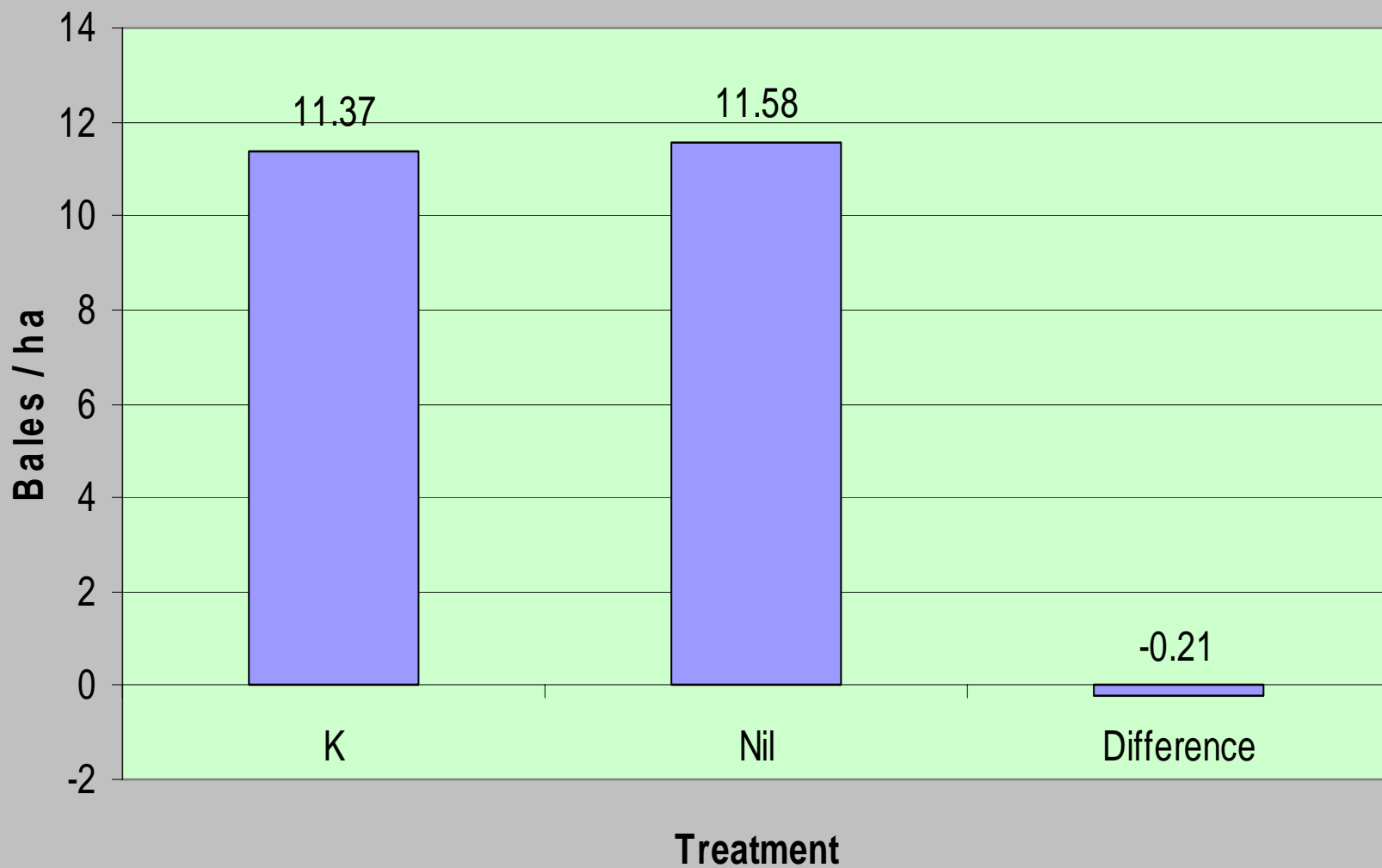


2007 Field 10 K Trial

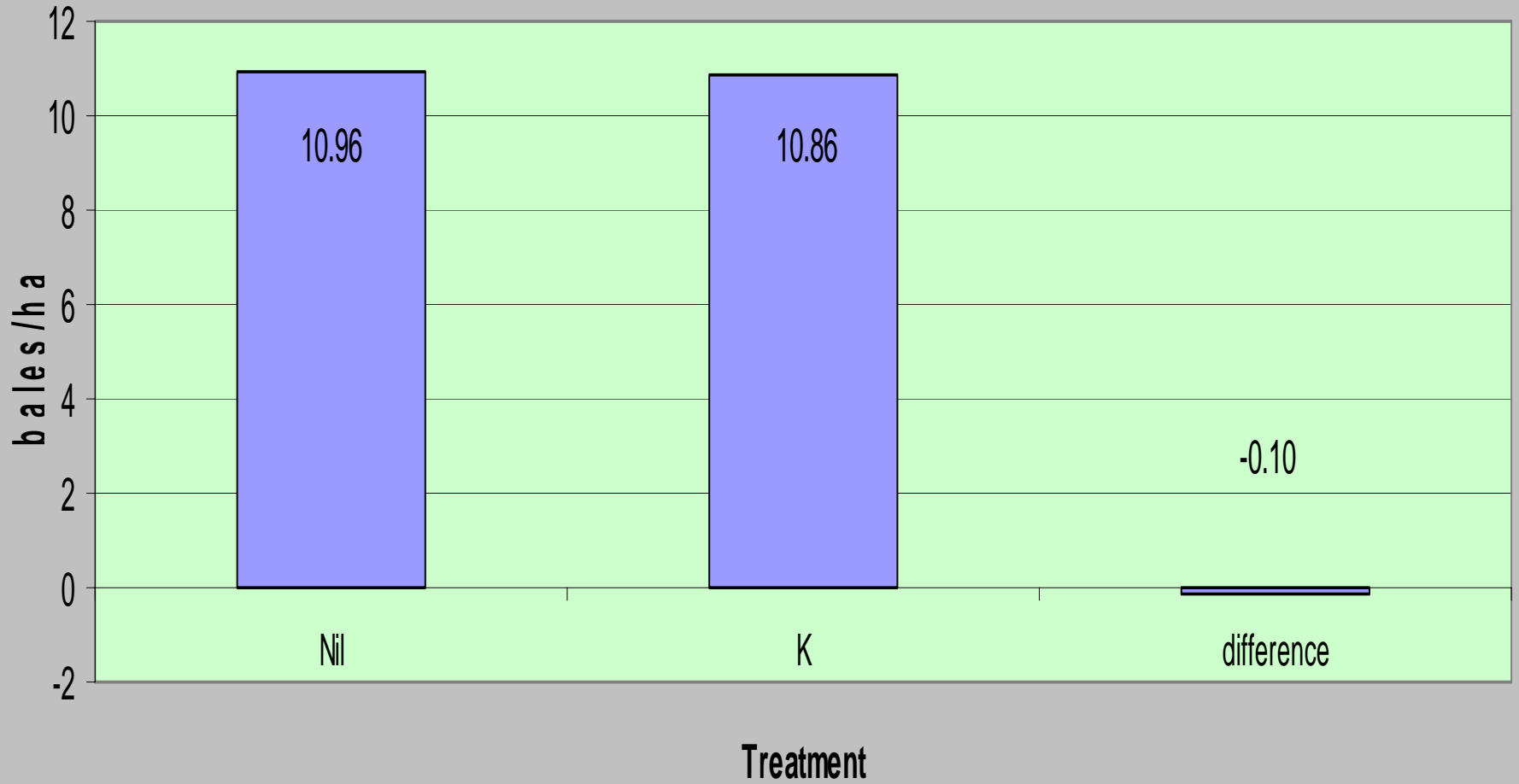
bales / ha



2008 K trial



Average for 3 trials



Cost/Benefit Analysis

- 2008 K costs: 4 applications @ \$34 each
Total: \$136. @\$450/bale = .3 bale/ha
- Net result: - (\$230)

- 2007 K costs: 4 applications @ \$24 each
Total: \$96. @\$450/bale = .2 bale/ha
- Net result: - (\$141)

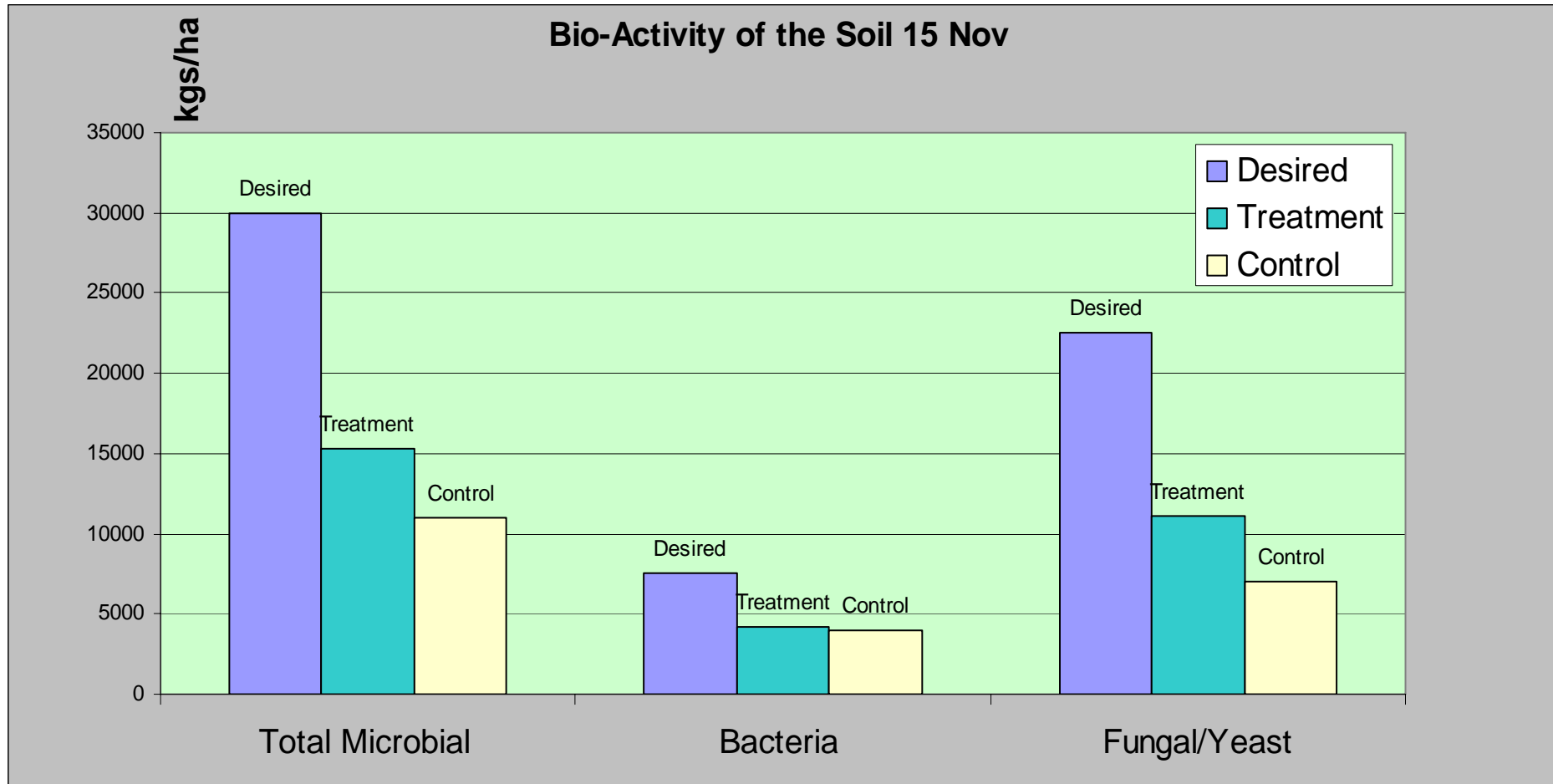
Where to now



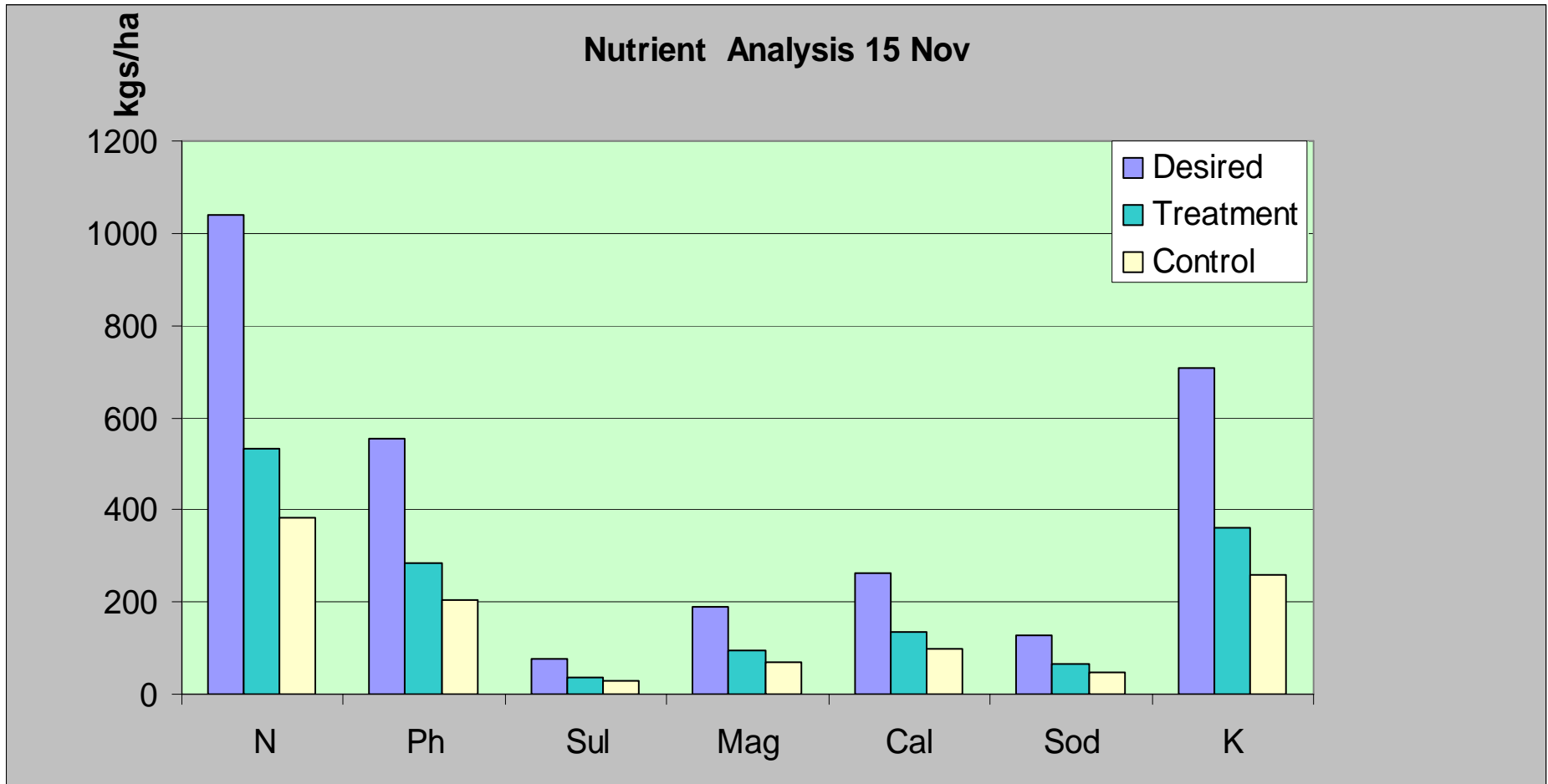
Bio Inoculate

Bio Inoculate is a Carbon-based starter nutrient pack designed to drench seedlings with microbial inoculant, plant and root-developing nutrients.

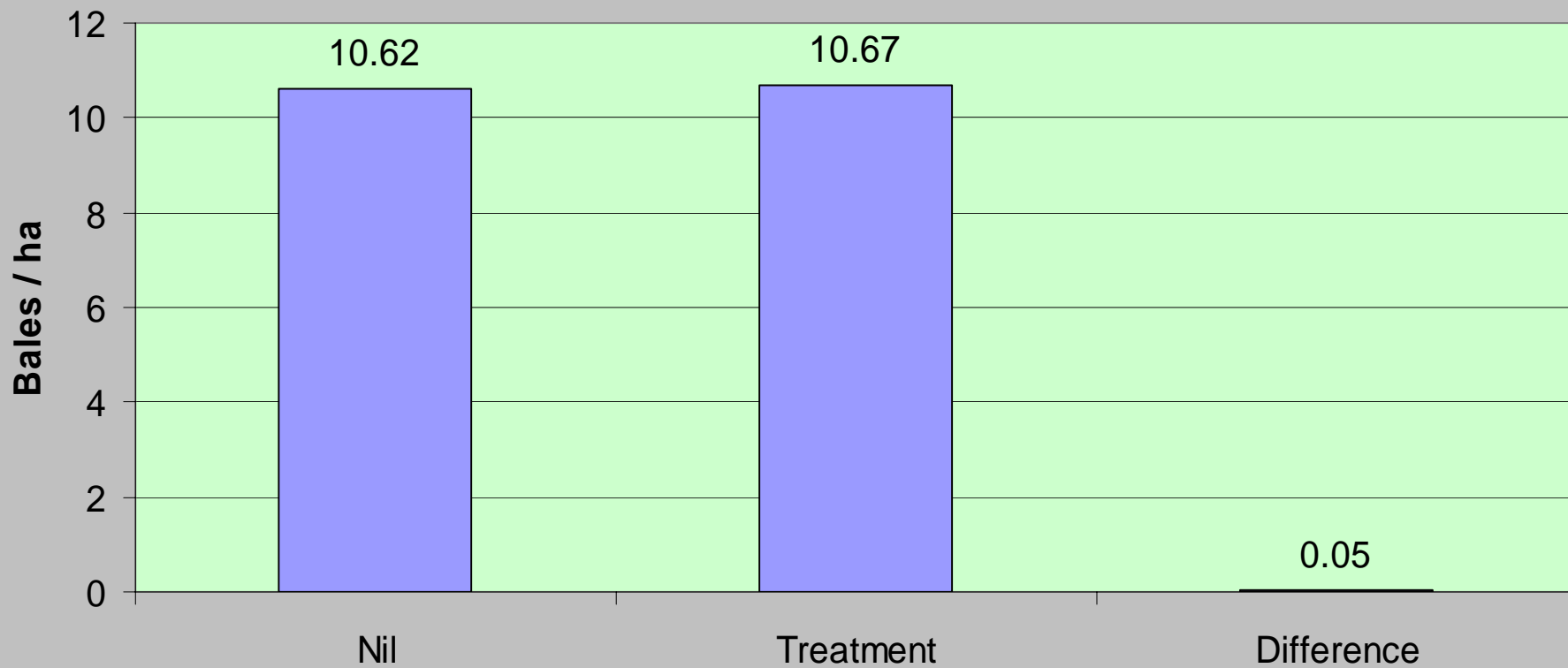
Enzyme Test Fld 7



Enzyme Test Fld 7



2008 Field 7 Bio Inoculate



Cost/Benefit Analysis

- Cost: 20lts @ \$1.45 = \$29/ha
- Benefit: .05bale @ \$450 = \$22.5/ha
- Net result: - (\$6.50)/ha
- Why Bio Inoculate? An attempt to incorporate some biology into the root zone to help the uptake of nutrients.

Stubble Digest (claims)

- Stubble Digest is a culture infused with a proprietary blend of protein and carbohydrate to promote rapid colonisation.
- It facilitates the breakdown and digestion of stubble and trash loads.
- It boosts the physical, chemical and biological characteristics of the soil via greater microbial biomass of topsoil.

Benefits (claims)

- Establishes viable decomposing populations of cellulose digesting fungi
- Minimises soil Nitrogen required to break down high Carbon trash loads
- Has shown greater soil water holding capacity
- Has shown increased capacity to build soil Carbon

REPORT

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Client Name:	Johno Phelps
Paddock/Block:	FIELD 1 (HAVANA)
Agronomist:	Bart Davidson
Report date:	08/08/08
Growth stage (GS):	30-39

Results [ppm]:

NUTRIENT	DESIRABLE		RESULT	STATUS
	High	Low		
Ammonium - NH4	100	15	35	optimum
Nitrate - NO3	1900	700	5086	high
Phosphorus - P	425	230	122	low
Sulphur - S	350	150	161	satisfactory
Potassium - K	7500	4500	7736	optimum
Calcium - Ca	510	250	268	low
Magnesium - Mg	250	130	245	high
Boron - B	1.30	0.50	0.57	satisfactory
Molybdenum - Mo	0.05	0.02	0.056	high
Copper - Cu	3.0	1.6	1.75	optimum
Iron - Fe	8.0	2.0	6.83	optimum
Manganese - Mn	15.0	8.0	13.86	optimum
Zinc - Zn	3.50	2.0	2.32	optimum
Sodium - Na	250	50	196	satisfactory
Chloride - Cl	2000	20	5490	high
brix %	16	11	0	-

