



® **CAL-AGRI**

# ***EVALUATING AGRIVERDE***

***IN A COMMERCIAL  
GREENHOUSE CROP***

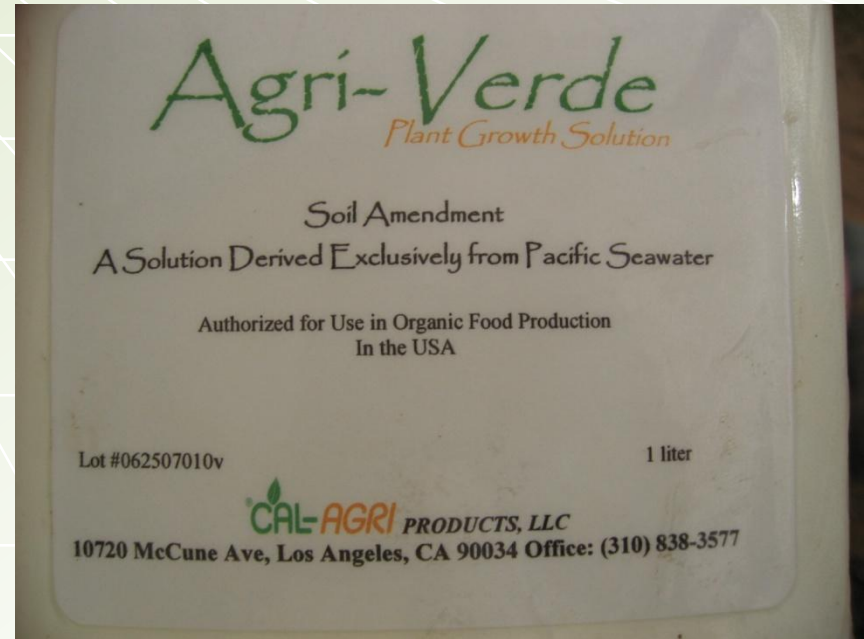


# AGRIVERDE TRIAL Climbing Beans October 2007- February 2008



Stage of Application of AGRIVERDE on 10  
November 2007  
Date of Sowing: 25 October

## AGRIVERDE





# Commercial Evaluation of AGRIVERDE

- ❖ Greenhouse Farmer: Chraibi
- ❖ Greenhouse Farm: Tin Mansour-CMV 809
- ❖ Crop: Climbing Flat Beans CV. Stefania
- ❖ Date of sowing: 25 October 2007
- ❖ Date of first application of AGRIVERDE: 10 November 2007.

# Commercial Evaluation of AGRIVERDE

## Experimental Design



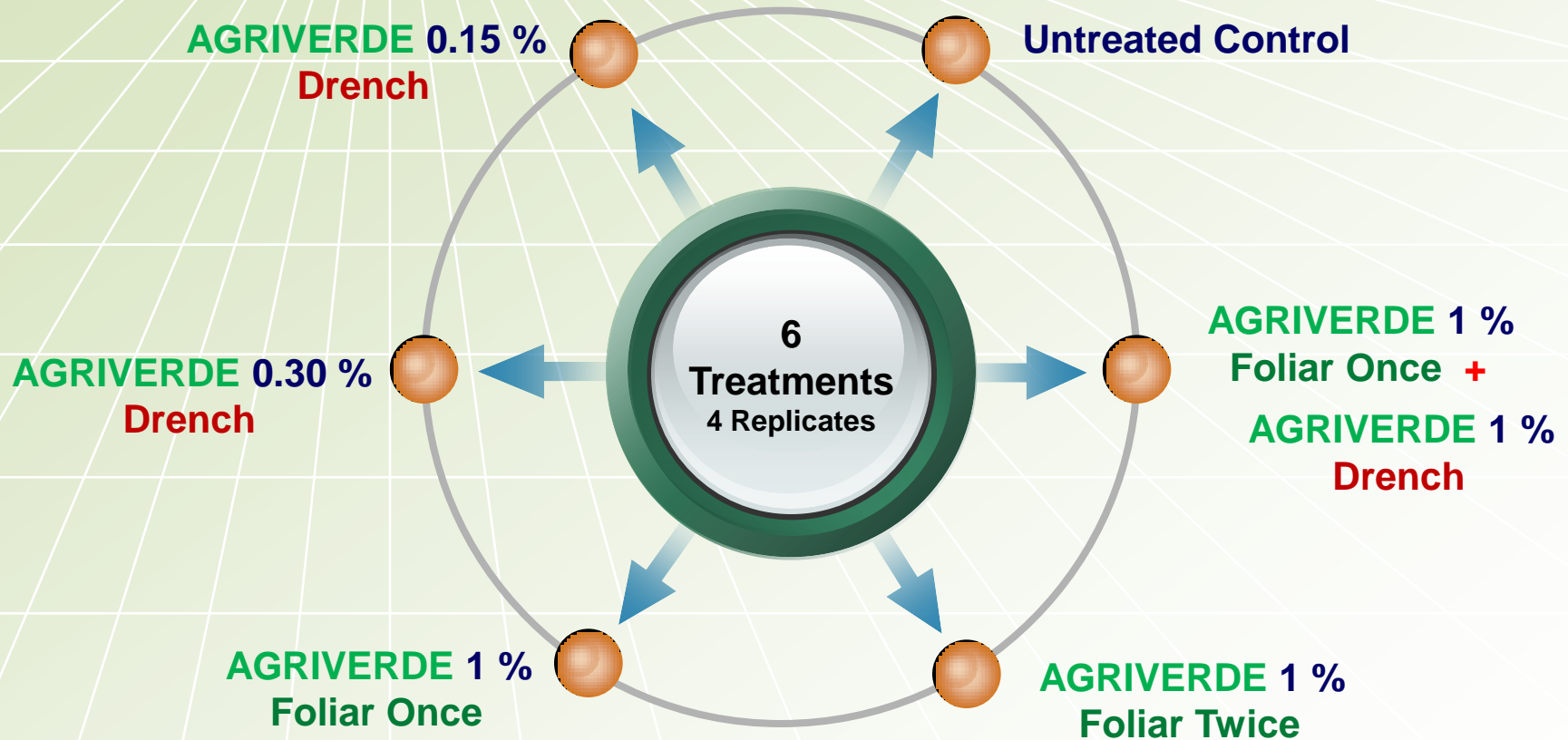
### ❖ 6 Treatments evaluated

- T1: AGRIVERDE applied (10 November 2007) as a drench (250 cc/plant) at the concentration of 0.15%
- T2: AGRIVERDE applied (10 November 2007) as a drench (250 cc/plant) at the concentration of 0.30 %
- T3: AGRIVERDE applied once (10 November 2007) as a Foliar at the concentration of 1 %
- T4: AGRIVERDE applied twice (10 November 2007 and 1 December 2007) as folira at the concentration of 1 %
- T5: Untreated Control
- T6: AGRIVERDE applied (10 November 2007) as a drench (250 cc/plant) at the concentration of 1% and as Foliar at the concentration of 1% on 1 December 2007.

❖ One Treatment = 4 Rows of 50 m long

❖ 1 Row of 50 m long = 125 plants

# Treatments Evaluated





# Application of AGRIVERDE

**Stage of Plant Growth**



**Preparation of the AGRIVERDE Mix**



# Application of AGRIVERDE



# Application of AGRIVERDE

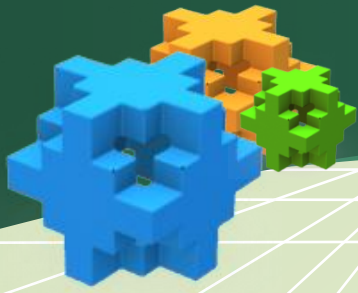
**Drench**  
**250 cc/plant**



**Drench**  
**250 cc/plant**







# Application of AGRIVERDE

**Drench**  
**250 cc/plant**

**Stage of application**



# Evaluating Impact of AGRIVERDE on Plant Growth

6 December 2007



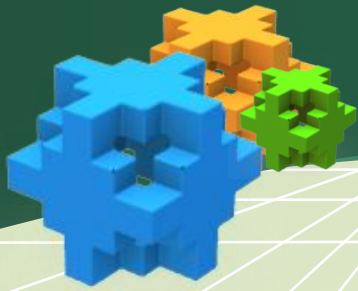
**Left Row: AGRIVERDE 1% Drench+1% Foliar**

**Right Row: AGRIVERDE 0.15% Drench**

**Cal Agri Visit the Trial with CAS and Farmer**



# AGRIVERDE TRIAL Climbing Beans 12 January 2008



**AGRIVERDE 0.15% Applied as Drench**

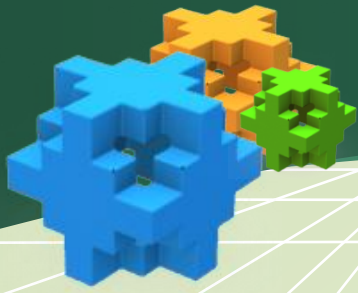


**AGRIVERDE 1% Applied as Drench+Foliar**

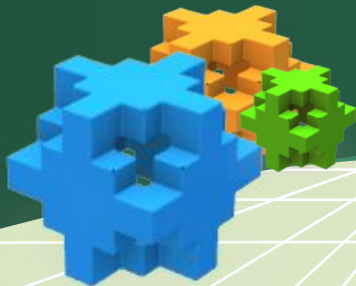


# AGRIVERDE TRIAL

## Yield Evaluation February 2008



# AGRIVERDE TRIAL Climbing Beans 16 February 2008

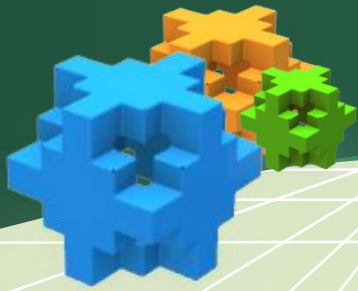


**AGRIVERDE applied at 1% Drench+ 1% Foliar  
Early Production and Early Senescence**

**AGRIVERDE applied at 1% 1% Foliar  
Production continue at same date**



# AGRIVERDE TRIAL Climbing Beans 29 February 2008



**AGRIVERDE Improve Root and Stem  
Vigour**

**AGRIVERDE promotes Root System**



**AGRIVERDE TRIAL Climbing Beans**  
**29 February 2008**  
**Plant Root Evaluation**



**Vigorous stem**  
**Vigorous Root system**

**Left: AGRIVERDE 1% Drench+1% Foliar**  
**Right: AGRIVERDE 1% Floiar**



# AGRIVERDE EVALUATION AT COMMERCIAL GREENHOUSE

Harvest in kg of Beans (500 plants/treatment) during the period 9 January to 3 February 2008

Date of Harvest	Harvest of Flat Beans in Kg per Treatment (500 plants)					
	T6	T1	T3	T2	T5	T4
09/01/2008	37,5	18	18	29	18	28
11/01/2008	54	31,5	22,5	28,5	18	28
14/01/2008	38	30,5	28	30	18	28
16/01/2008	37	13,5	31,5	31	18	28
18/01/2008	72	32,5	28,5	32,5	18	22,5
20/01/2008	39	13,5	20,25	32,5	18	27
22/01/2008	35	22,5	31,5	36	27	36
25/01/2008	63	36	40,5	54	45	36
27/01/2008	54	28,5	36	36	31,5	36
30/01/2008	54	36	36	36	31,5	40,5
01/02/2008	42	37,5	31,5	31,5	36	45
03/02/2008	31,5	31,5	36	40,5	45	49,5
Total Harvest	557	331,5	360,25	417,5	324	404,5

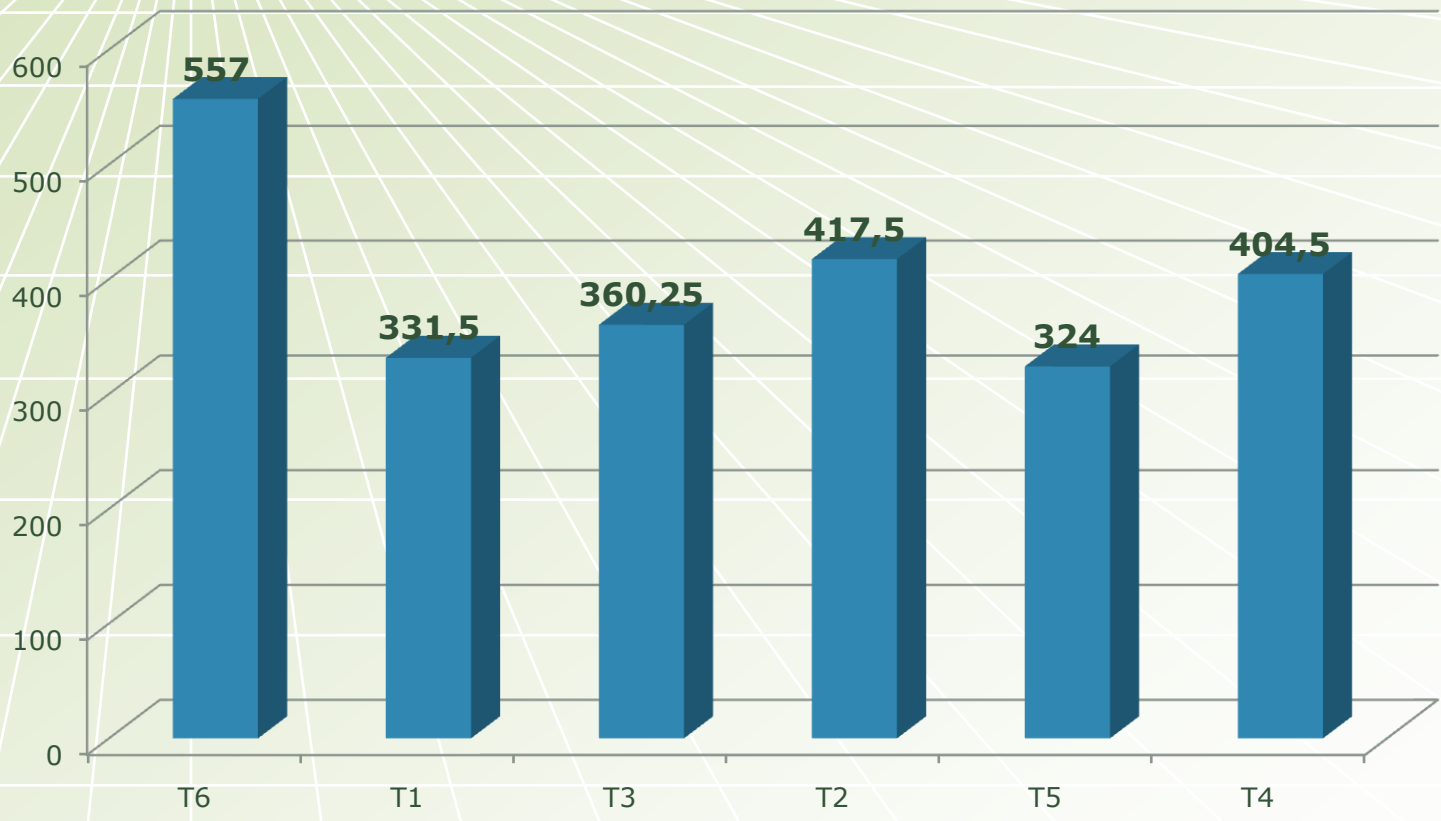
Treatments					
T6	T1	T3	T2	T5	T4
AGRIVERDE	AGRIVERDE	AGRIVERDE	AGRIVERDE	Negative Control	AGRIVERDE
Drench 1% + Foliar 1%	Drench 0,15%	1% Foliar (Once)	Drench 0,30%	Untreated	1% Foliar (Twice)





# AGRIVERDE EVALUATION AT COMMERCIAL GREENHOUSE

Harvest in kg of Beans (500 plants/treatment) during the period 9 January to 3 February 2008



Treatments					
T6	T1	T3	T2	T5	T4
AGRIVERDE	AGRIVERDE	AGRIVERDE	AGRIVERDE	Negative Control	AGRIVERDE
Drench 1% + Foliar 1%	Drench 0,15%	1% Foliar (Once)	Drench 0,30%	Untreated	1% Foliar (Twice)

# AGRIVERDE IMPACT ON BEANS



A

The best performance in terms of yield and plant growth is obtained when AGRIVERDE is used as Drench (1%) and as Foliar in the following three weeks

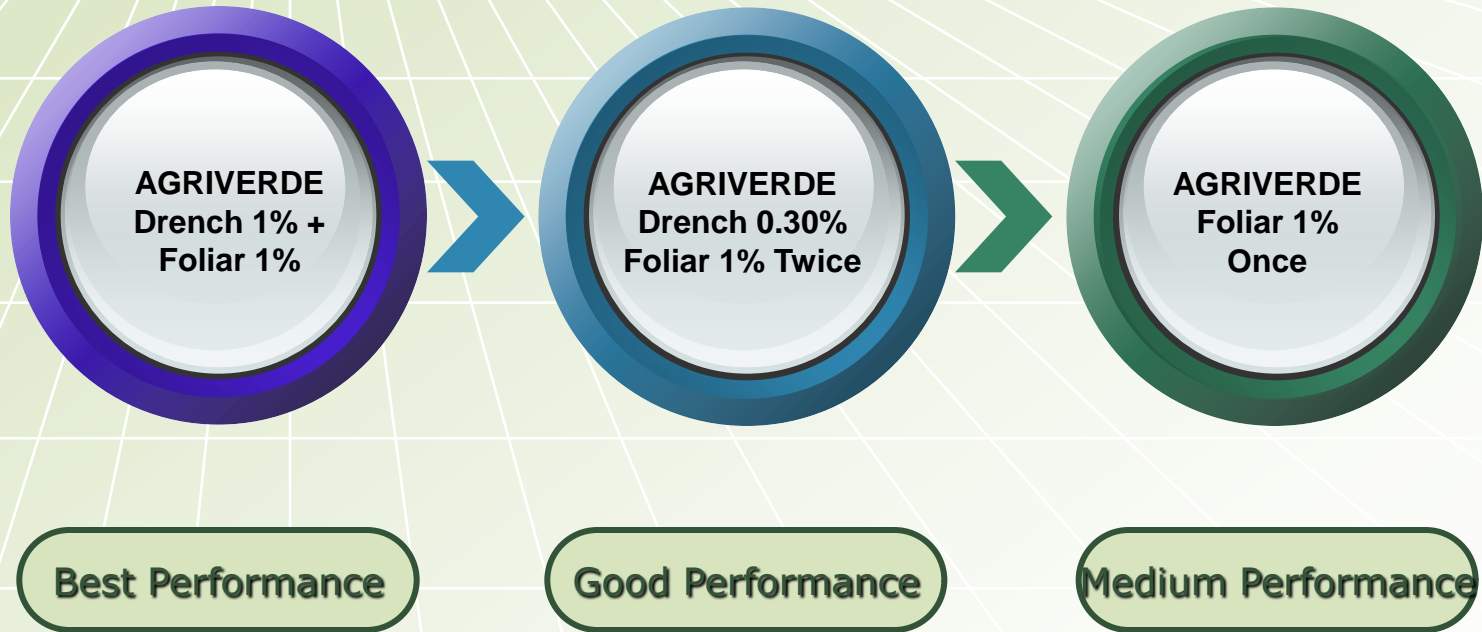
B

The second best performance in terms of yield is achieved with AGRIVERDE as Drench 0.30% and two foliar applications of AGRIVERDE at 1%

C

The application of AGRIVERDE as drench at the concentration of 0.15% did not improve yield as compared to the negative control

# AGRIVERDE IMPACT ON BEANS



Best Performance

Good Performance

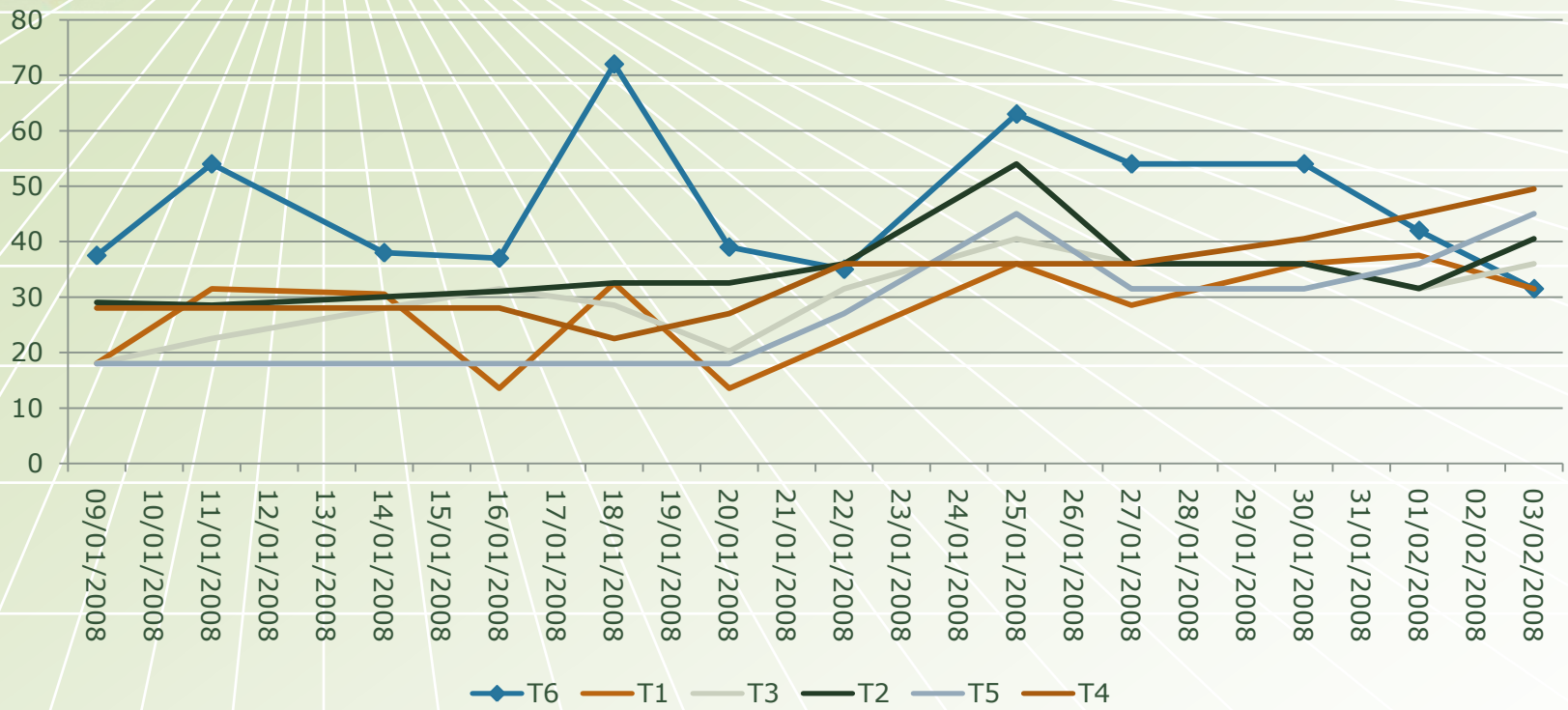
Medium Performance

AGRIVERDE 0.15% not Different from Negative Control



# AGRIVERDE EVALUATION AT COMMERCIAL GREENHOUSE

Harvest in kg of Beans (500 plants/treatment) during the period 9 January to 3 February 2008

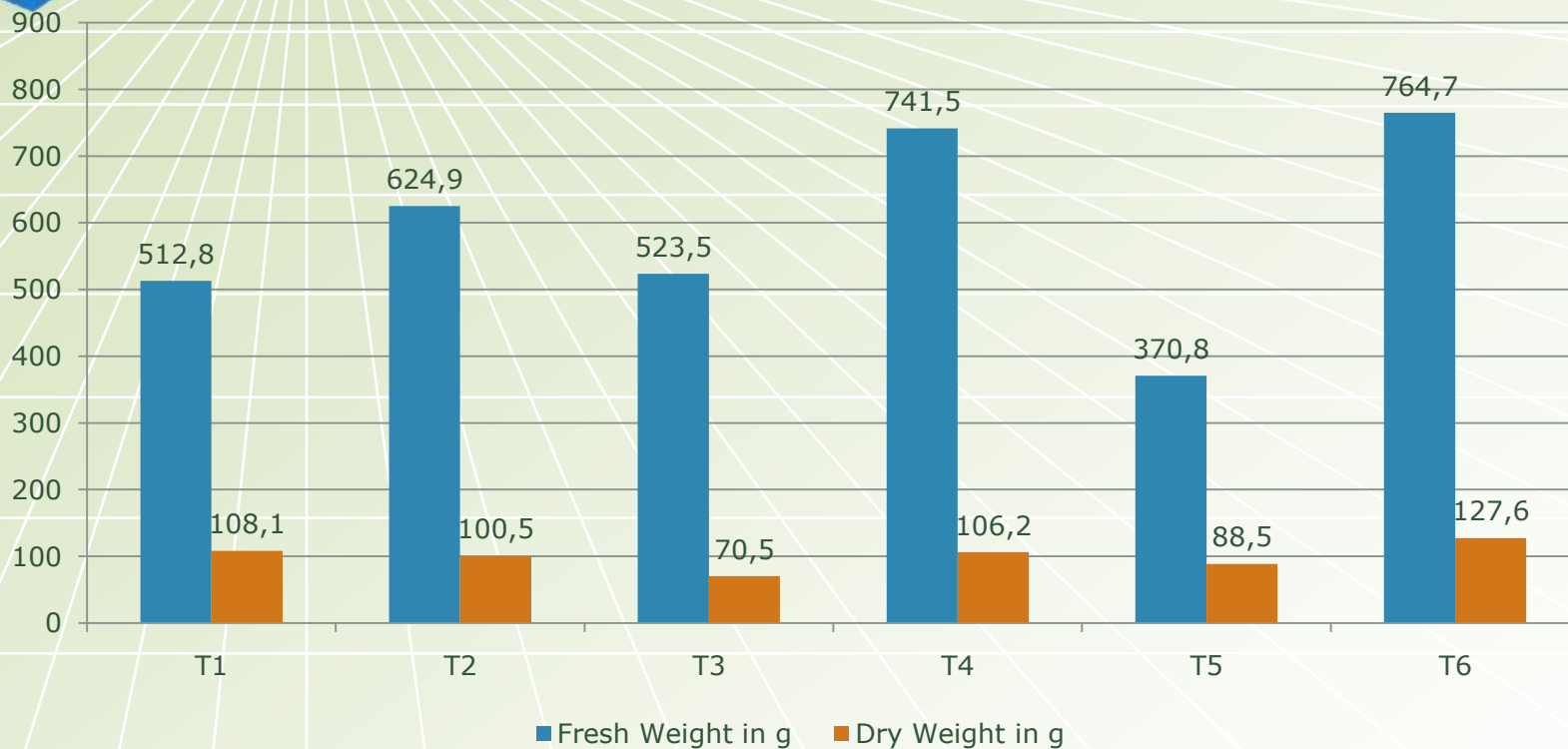


Note the early superior harvest when AGRIVERDE is applied as Drench and Foliar (T6)

Treatments					
T6	T1	T3	T2	T5	T4
AGRIVERDE	AGRIVERDE	AGRIVERDE	AGRIVERDE	Negative Control	AGRIVERDE
Drench 1% + Foliar 1%	Drench 0,15%	1% Foliar (Once)	Drench 0,30%	Untreated	1% Foliar (Twice)

# AGRIVERDE EVALUATION AT COMMERCIAL GREENHOUSE

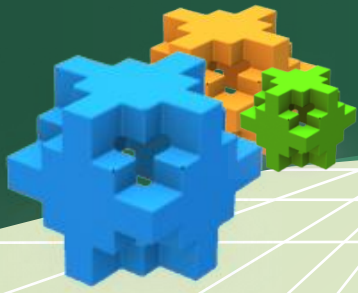
Weight in g of plant Roots (5 plants/treatment) on 13 March 2008



Note the highest root weight when AGRIVERDE is applied as Drench and Foliar (T6)

Treatments					
T6	T1	T3	T2	T5	T4
AGRIVERDE	AGRIVERDE	AGRIVERDE	AGRIVERDE	Negative Control	AGRIVERDE
Drench 1% + Foliar 1%	Drench 0,15%	1% Foliar (Once)	Drench 0,30%	Untreated	1% Foliar (Twice)

# AGRIVERDE IMPACT



Improve Plant Growth, Leaf Size  
And Root Volume and Weight

Accelerate Early Production

Improve Yield

**Positive Impact  
of AGRIVERDE  
on Beans**



Perfect Product for  
Short Crop Cycle  
Crops

# Suggestions for Use of AGRIVERDE in Greenhouse Crops

## Phase 1

Application of AGRIVERDE at the Concentration 0.30%-1% either as Drench or Injection through the Irrigation system two weeks after transplanting

## Phase 2

Application of AGRIVERDE at the Concentration 1% as Foliar six weeks after transplanting

## Phase 3

Additional applications of AGRIVERDE at the Concentration 1% as Foliar as needed (cold, stress, etc.)