

The Protected Ag Information Network (PAINET):

Evaluation of Cultural Practices for Indeterminate Bell Pepper Production Under Protective Structures in the Dominican Republic, Nicaragua, Honduras, Costa Rica and El Salvador.



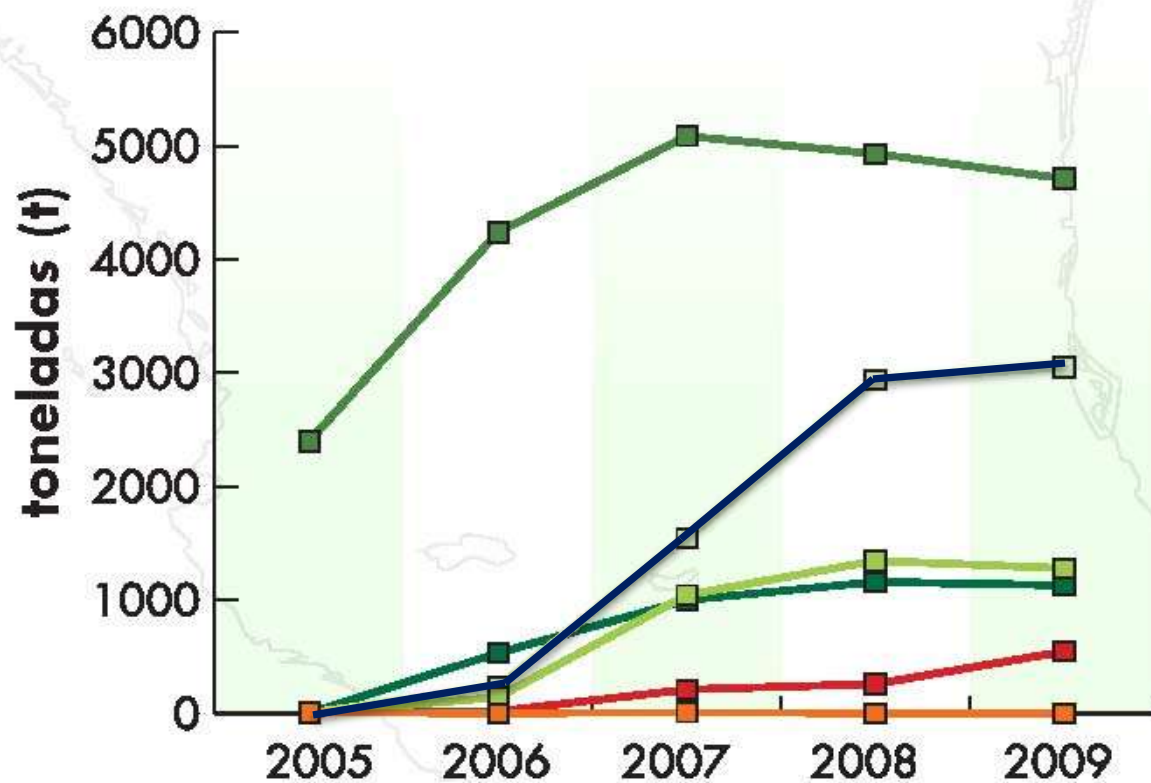
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Atlanta
Houston
New Orleans
Monterrey
Gulf of Mexico
MEXICO
Guadalajara
Mexico
Mérida
Havana
CUBA
Cayman Islands (U.K.)
U.S. Naval Base Guantanamo Bay
JAMAICA
Kingston
HAITI
Port-au-Prince
Santo Domingo
DOMINICAN REPUBLIC
San Juan
Puerto Rico (U.S.)
Virgin Islands (U.S.)
Bahamas
Turks and Caicos Islands (U.K.)
British Virgin Islands (U.K.)
SAINT VINCENT AND THE GRENADINES
GRENADA
Netherlands Antilles (NETH.)
Aruba (NETH.)
VENEZUELA
Caribbean Sea
North Pacific Ocean
Panama Canal
Panama
Barranquilla
Maracaibo
Caracas
Rio Orinoco

VOLUMEN DE EXPORTACIÓN DE CHILES Y PIMIENTOS A EE.UU.



Rep.
Dominicana

Guatemala

Costa
Rica

Nicaragua

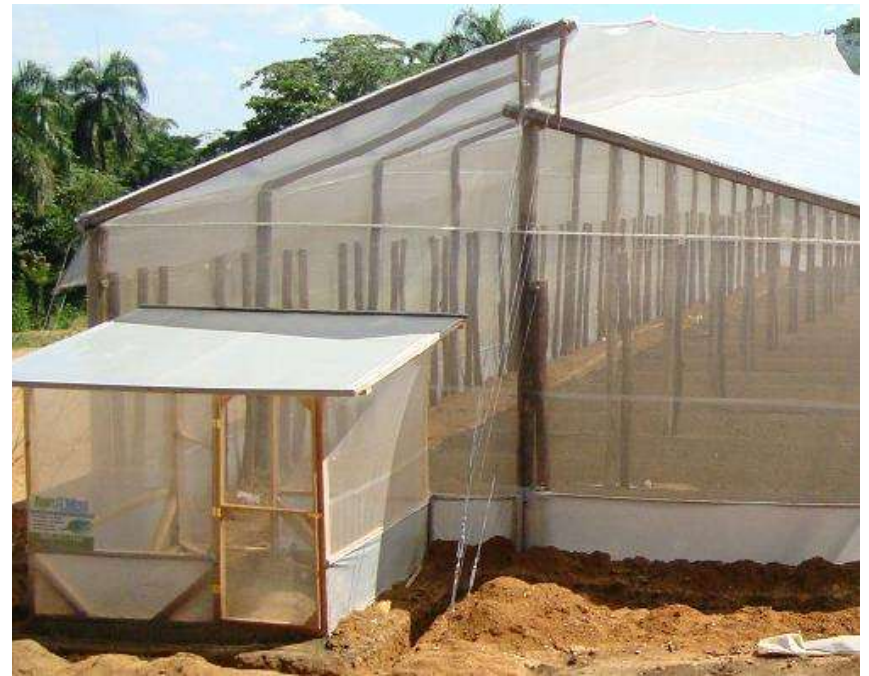
Honduras

El
Salvador











Implement technologies and exchange information to enhance vegetable and small fruit crops yields and quality.



Research
and validation

- Cultural practices.
- Irrigation and fertilization.

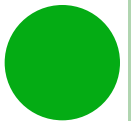
Education,
cooperation and
communication

- Grower associations
- Women involvement



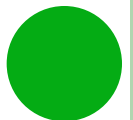
RESEARCH AND VALIDATION

- Pruning methods.



RESEARCH AND VALIDATION

- Number of stems.



RESEARCH AND VALIDATION

- Plant density.



RESEARCH AND VALIDATION

- Irrigation programs.



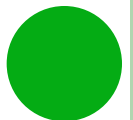
RESEARCH AND VALIDATION

- Sun protectants.



COSTA RICA

- Effect of pruning and plant density on two bell pepper cultivars grown under greenhouse.



○ Factor A :

Planting distance.

A1) 25 cm/ 26,000 plants/ha

A2) 20 cm/ 32,500 plants/ha

A3) 15 cm/ 39,000 plants/ha

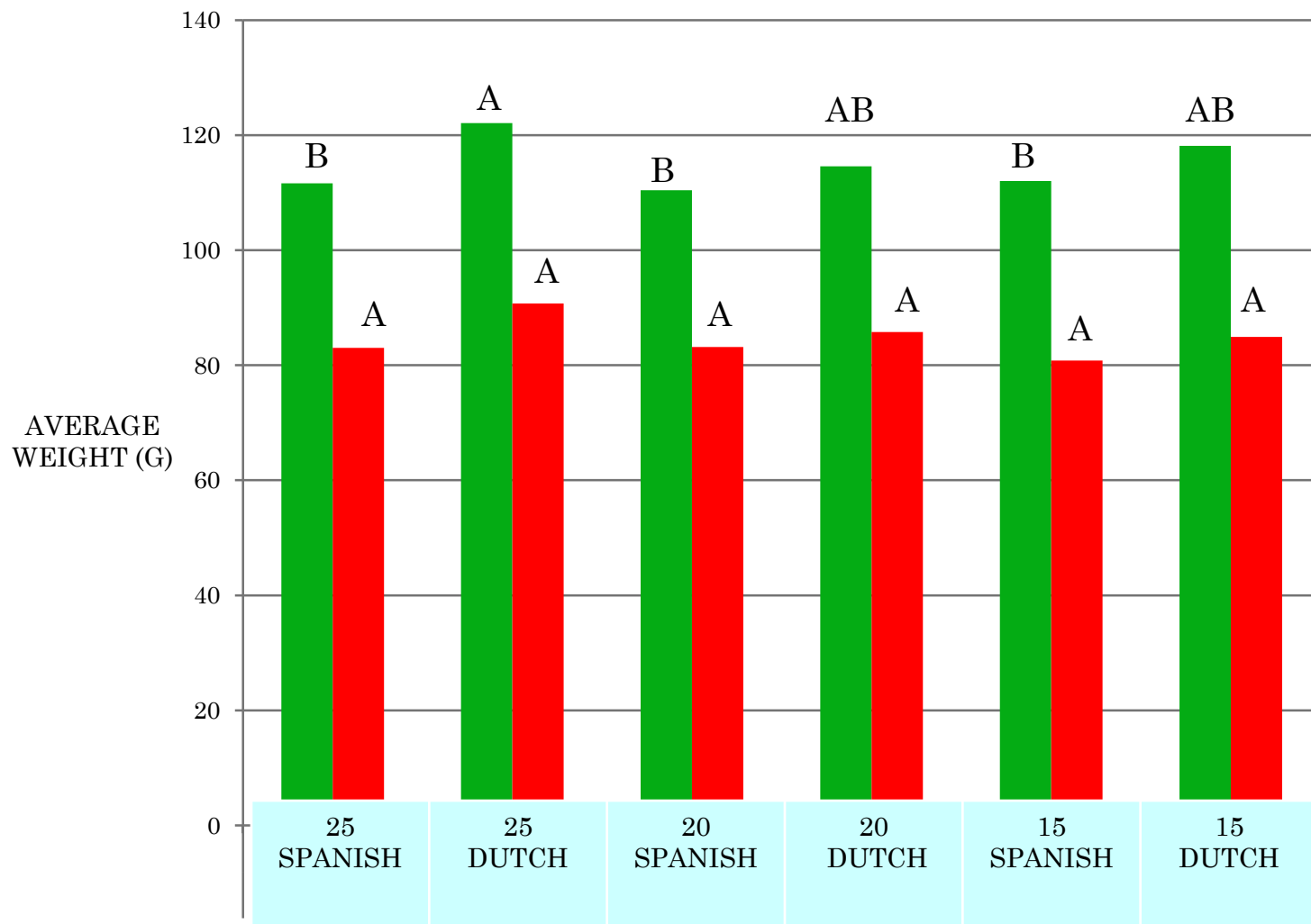
○ Factor B :

B1) Spanish pruning.

B2) Dutch pruning.



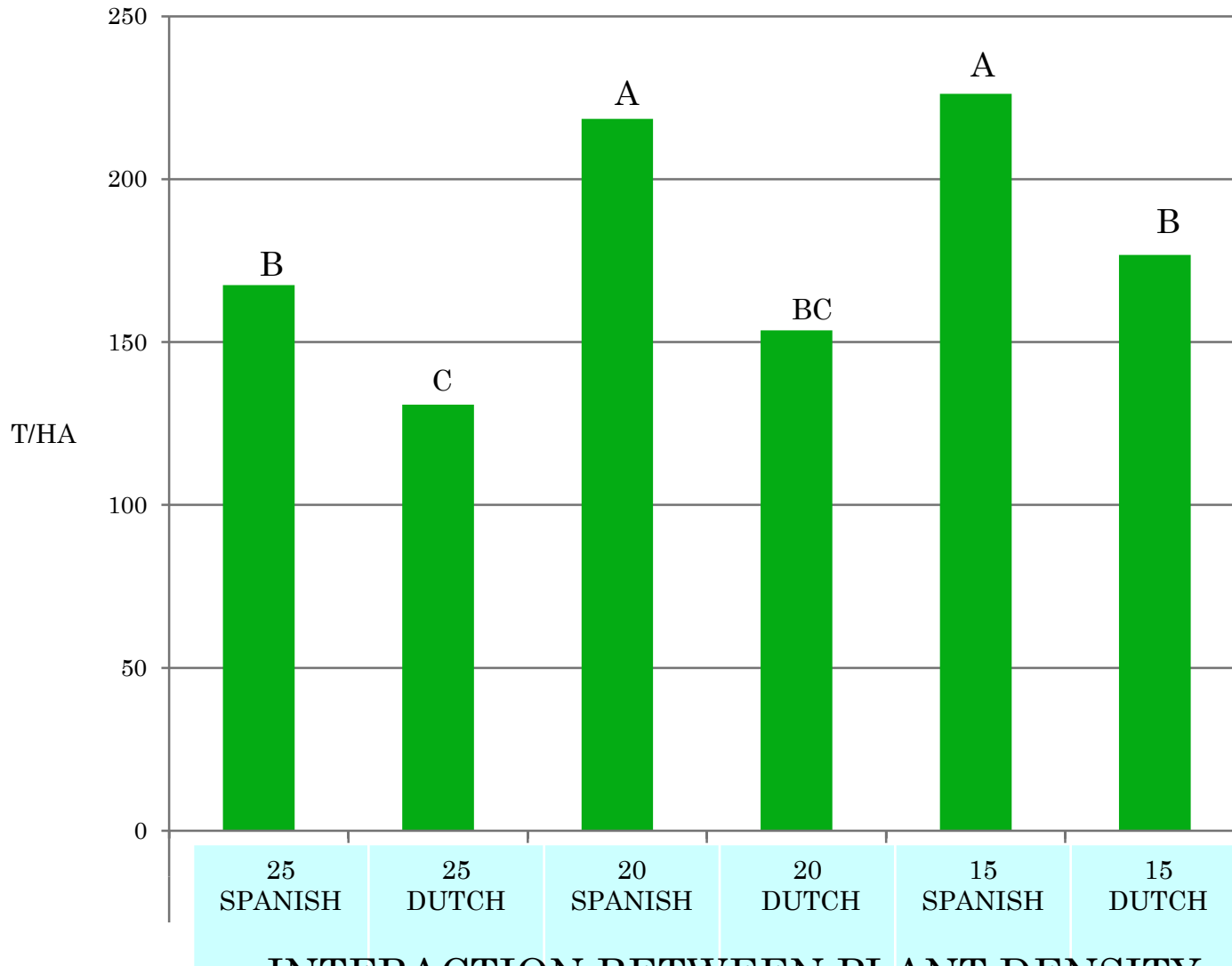
AVERAGE FRUIT WEIGHT (RED GENOTYPE)



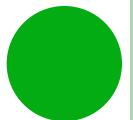
INTERACTION BETWEEN PLANT DENSITY
AND PRUNING



TOTAL YIELDS (RED GENOTYPE)

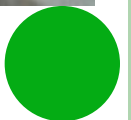


INTERACTION BETWEEN PLANT DENSITY
AND PRUNING



COSTA RICA

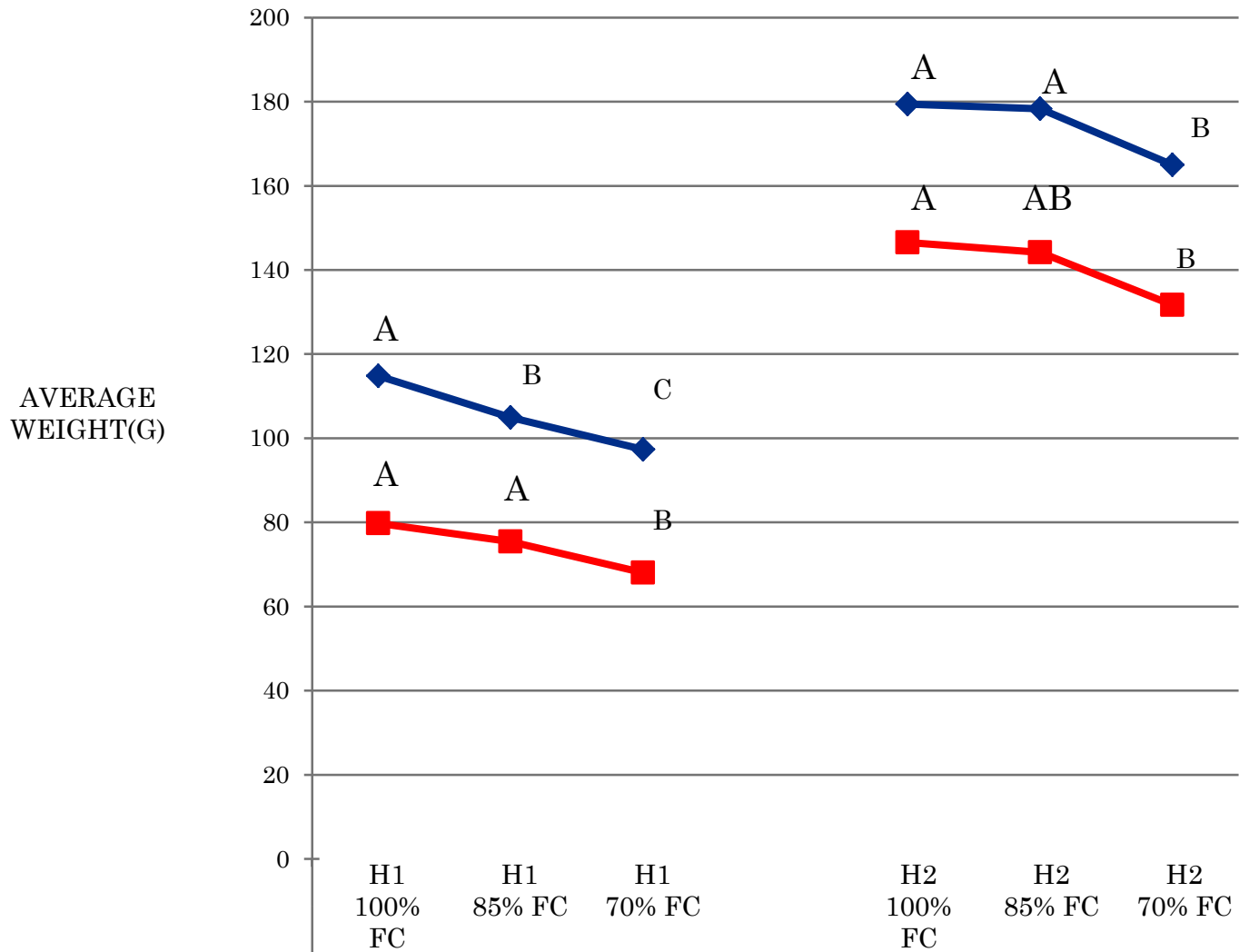
- Irrigation levels and media moisture on bell pepper production under greenhouse.



- Irrigation Level
- 50% Coconut coir fiber/50% peat moss
 - A1) Substrate 100% of field capacity
 - A2) Substrate 85% of field capacity
 - A3) Substrate 70% of field capacity



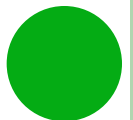
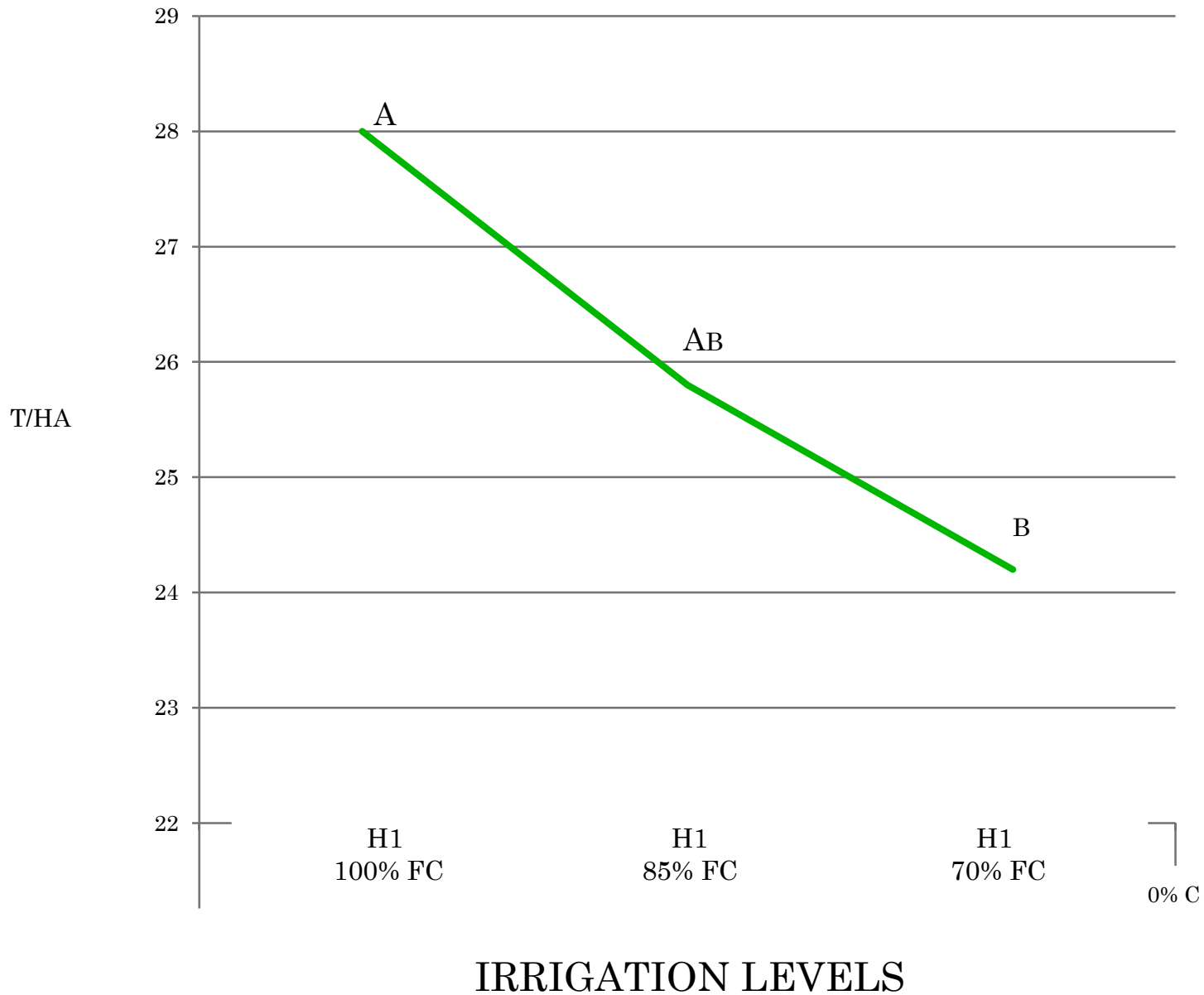
AVERAGE FRUIT WEIGHT



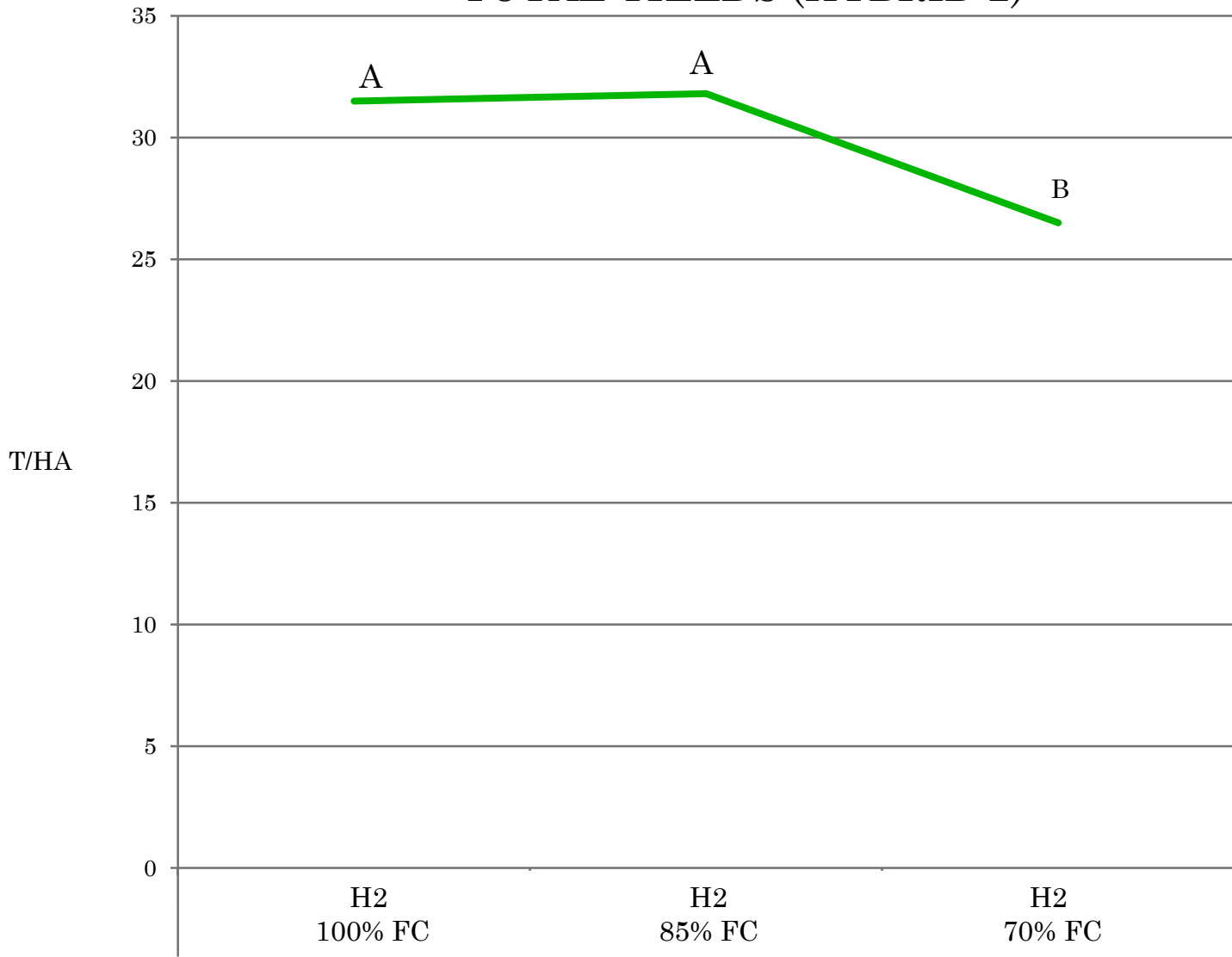
IRRIGATION LEVELS AND VARIETIES



TOTAL YIELDS (HYBRID 1)



TOTAL YIELDS (HYBRID 2)



IRRIGATION LEVELS



HONDURAS

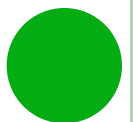
- Evaluation of pruning systems on colored bell peppers.



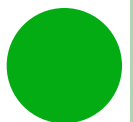
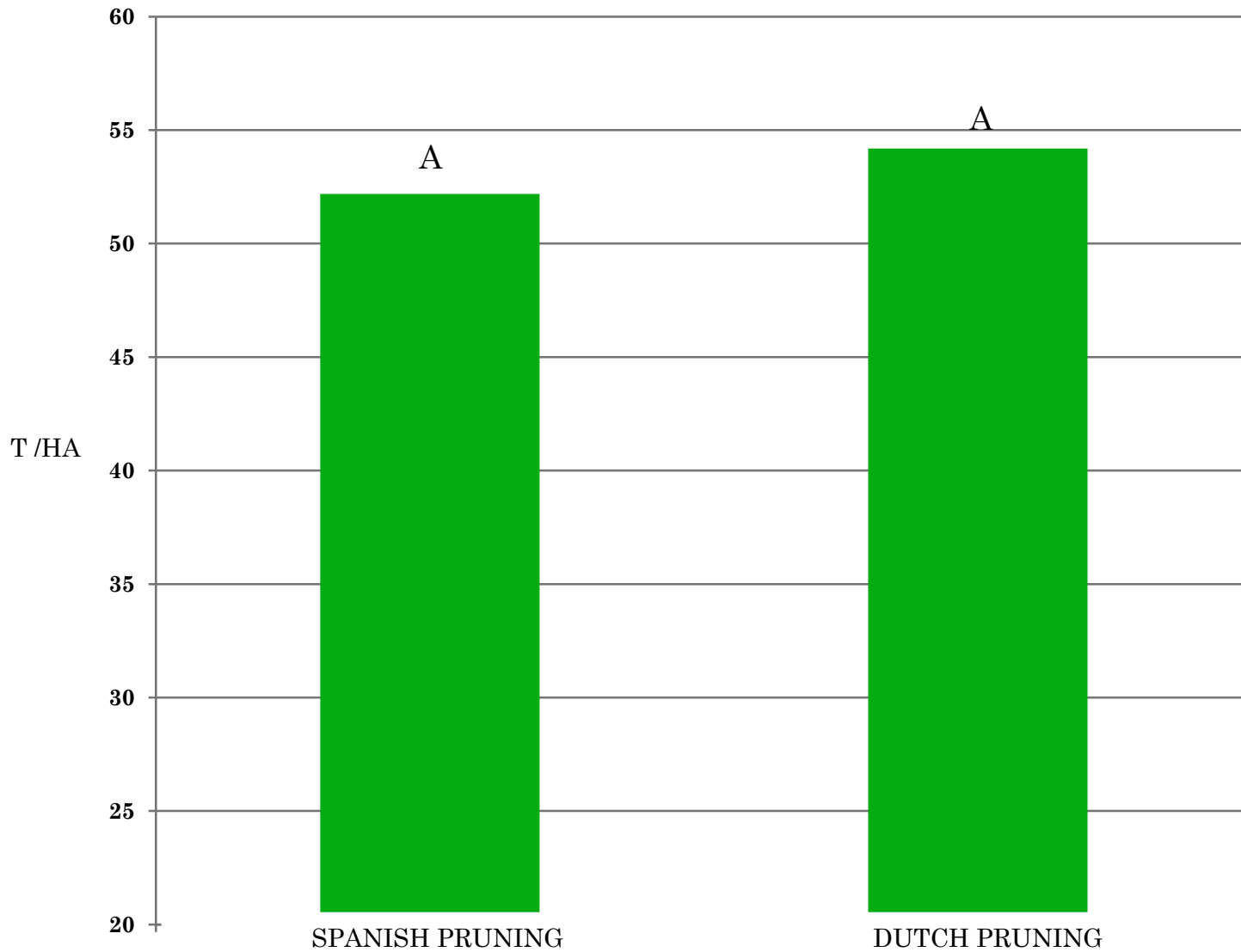
- Pruning systems.

- A1) Spanish pruning.

- A2) Dutch pruning.



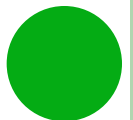
TOTAL YIELDS



PRUNING

PEPPER GRADES

| GRADE | DUTCH PRUNING | SPANISH PRUNING |
|-----------------|---------------|-----------------|
| Jumbo | 7% | 4% |
| X Large | 46% | 32% |
| Large | 25% | 18% |
| Medium | 18% | 43% |
| Small | 4% | 4% |
| Descarte | 0% | 0% |

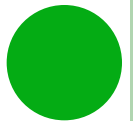


HONDURAS

- Evaluation of sun protectants on color bell peppers



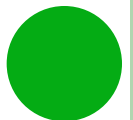
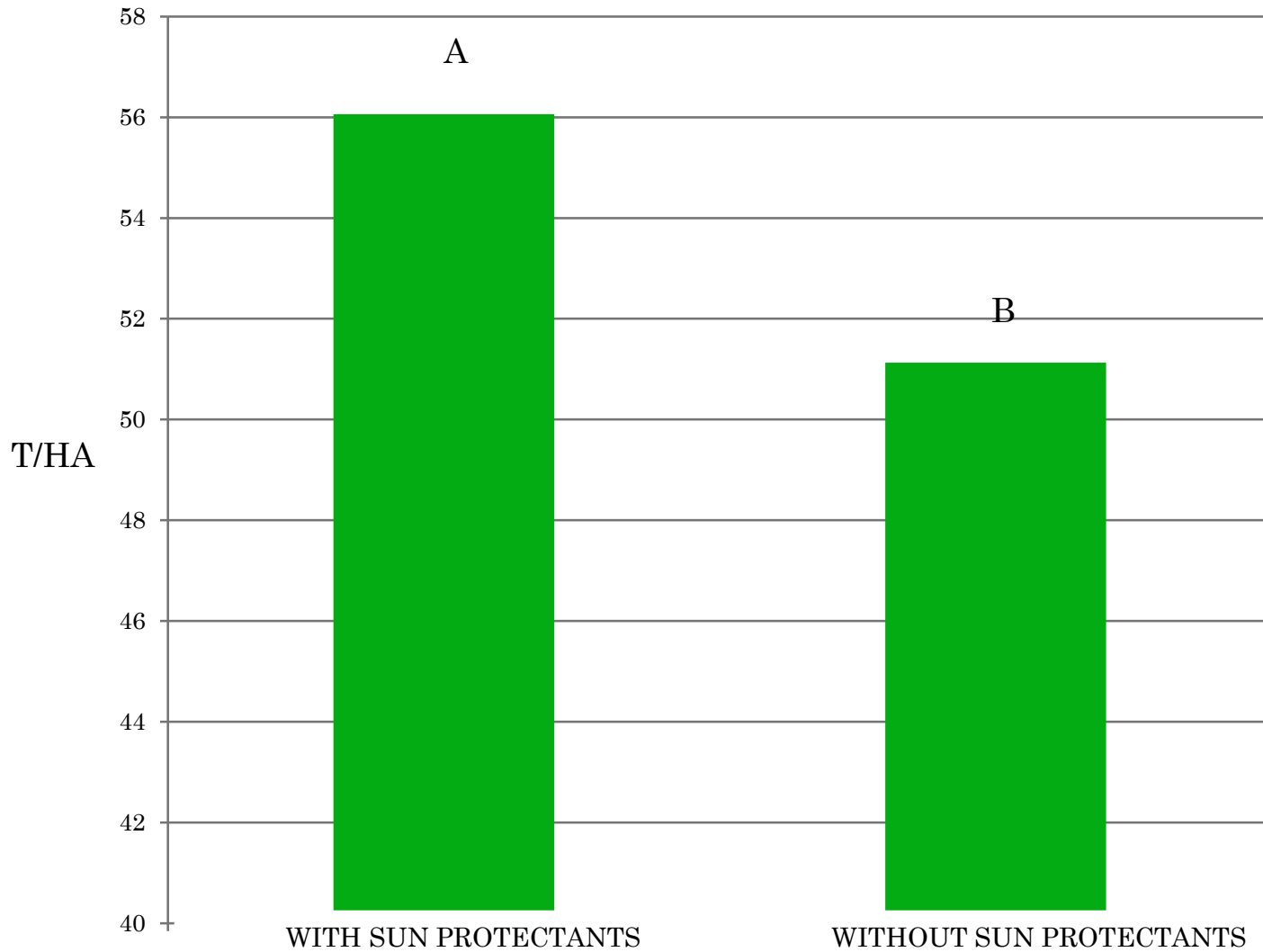
- SUN PROTECTANTS



- A1) Sun protectant application.
A2) Control.



TOTAL YIELDS



SUN PROTECTANTS

DOMINICAN REPUBLIC

- Effect of pruning system on yield and postharvest quality of red bell pepper under protective structures.



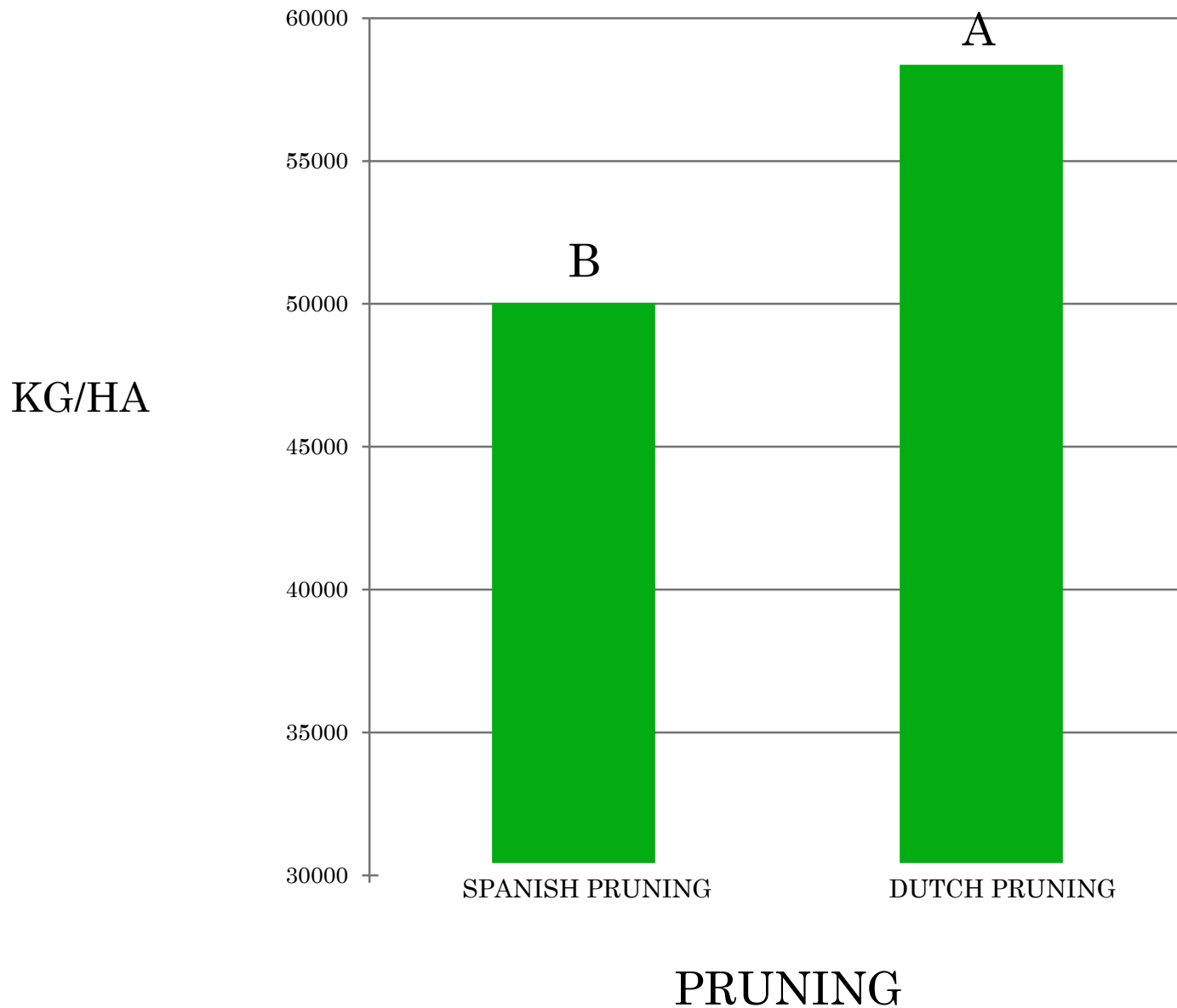
○ Factors:

B1) Spanish pruning.

B2) Dutch pruning.



MARKETABLE FRUIT WEIGHT



DOMINICAN REPUBLIC

- Effect of number of stems on the yield of red bell pepper grown under protective structure.



- **Design** : Completely Randomized Design.

- **Pruning.**

 - B1) 1 Stem.

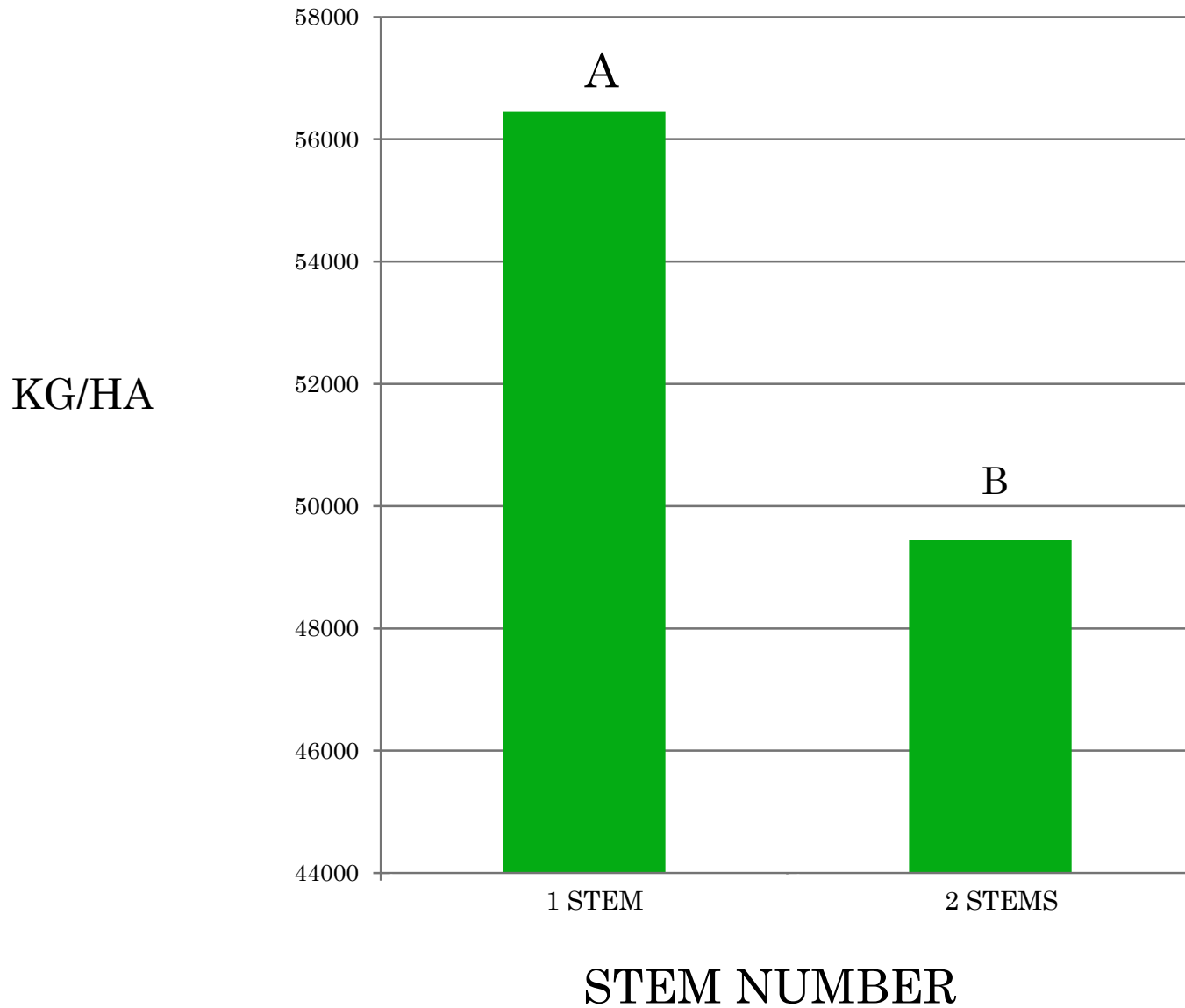
 - B2) 2 Stems.

- 4 Replications.

- 20 plants per plot.



MARKETABLE FRUIT WEIGHT





THANKS....

US-AID HORT CRSP FUNDING

<http://gcrec.ifas.ufl.edu/SantosHortProgram/International.htm>