



A proven, non-toxic and highly effective PGR to induce bud-dormancy break in Table Grapes, Kiwifruit, Apples, Cherries and additional deciduous crops

Field Trials Report



Introduction

BudUp is a new bud-dormancy break replacement for the challenging and toxic solutions based on Hydrogen Cyanamid (HC), optimizing safety growing for the farmers, for the plants and for the environment.

BudUp was tested successfully on a wide range of deciduous trees, such as table grapes, apples, plums, kiwifruit and berries in various locations around the world.

In warm weather regions, prolonged dormancy is the major obstacle for the economic production of Table Grapes and other deciduous crops, due to the lack of sufficient prolonged time of low temperatures.

Hydrogen Cyanimide (HC) is the most common and only effective solution to induce bud dormancy break and optimize fruit setting. But HC is banned in Europe and under review in many other countries due to its toxicity which harms the environment and poses a risk to farmers. Further to that, HC is phytotoxic when it is not applied correctly.

Numerous field trials proved that BudUp has similar effectiveness as HC of breaking bud dormancy and superior advantages over HC, such as: better bud-break uniformity and non-phytotoxic effect, even if applied on non-dormant buds.

Mechanism: Professional and Academic Responsibility

Field Trials were conducted by the inventor of BudUp, Dr. Etti Or (Ph D.) and her team in Israel, in addition to several crop protection companies in Israel, South Africa, Mexico and New Zealand.

Dr. Or is a Molecular Physiologist who specializes in the physiology of grapevines and whose philosophy explores the entire journey "From the Vineyard to the Tube and Back." She has headed the Fruit Tree Sciences Department, Institute of Horticulture, Volcani Centre, ARO, and for the past two decades has been a member of the scientific committees of International Plant Dormancy Symposia and Grapevine Physiology Symposia.

Her main areas of expertise are:

- ✓ The cascade of biochemical events regulating grape bud dormancy release.
- ✓ Manipulation of bud dormancy release in grapevines with respect to production in warm climates.
- ✓ Effects of within-cluster competition on natural thinning, berry size, and cluster appearance.
- ✓ Development of inflorescence primordia within the bud.
- ✓ Manipulation of flower thinning ability to improve grape quality.

BudUp is a portfolio company of COPIA Agro & Food Technologies (COPIA Venture Capital). The Israeli fund was founded in 2014 to make impact investments and to promote technologies that address substantial market potential and global challenges, such as food security, climate change, and the negative environmental impact of agriculture.

Successful Fields Trials

Table Grapes: Israel, Mexico, South Africa

Kiwifruit: Israel, New Zealand, Italy

Apples: South Africa

Cherries: Turkey

Berries: Mexico

Plums: South Africa

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Example of Field Trials

#1: Var. Early Sweet, Argaman, Israel

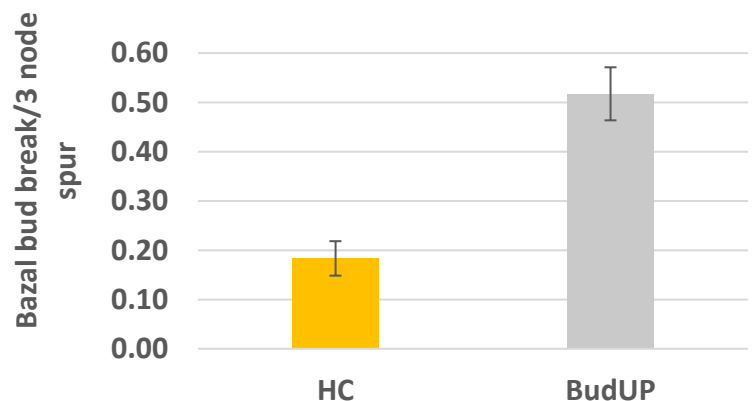
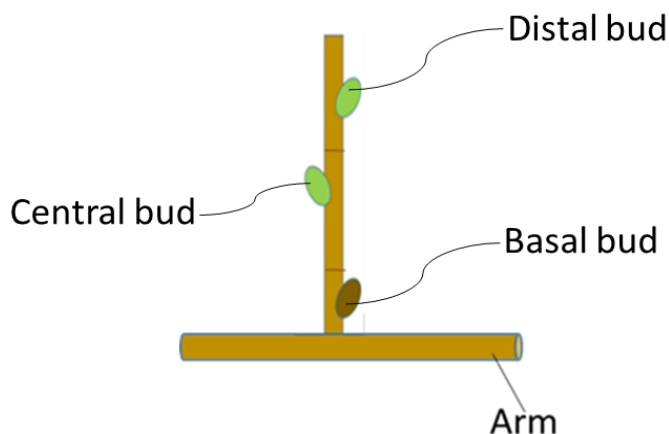
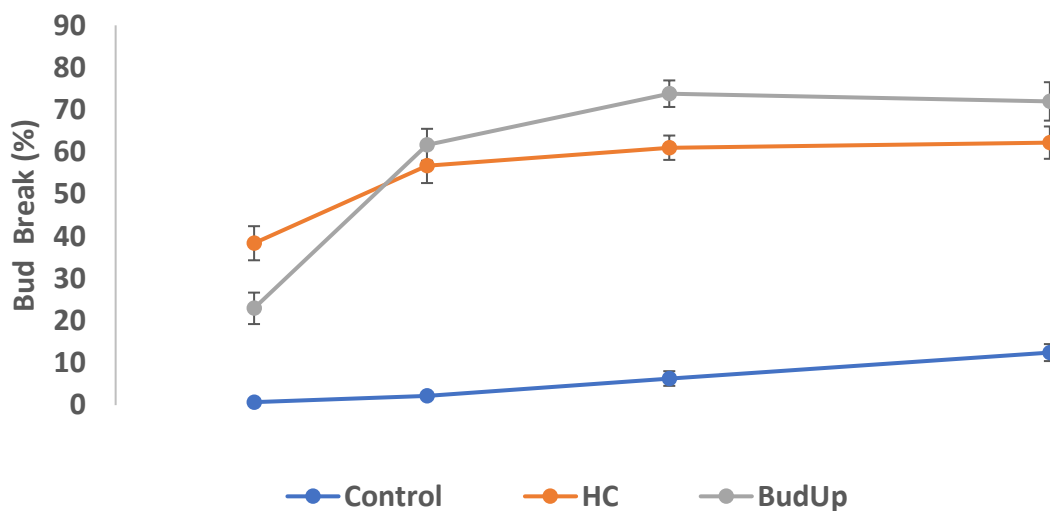
2015-2018: Table Grapes

Academic research on table grapes in field trials

Conducted by Dr. Etti Or, ARO

Spray Method – Motor knapsack sprayer

Spray Volume – Until drip-off





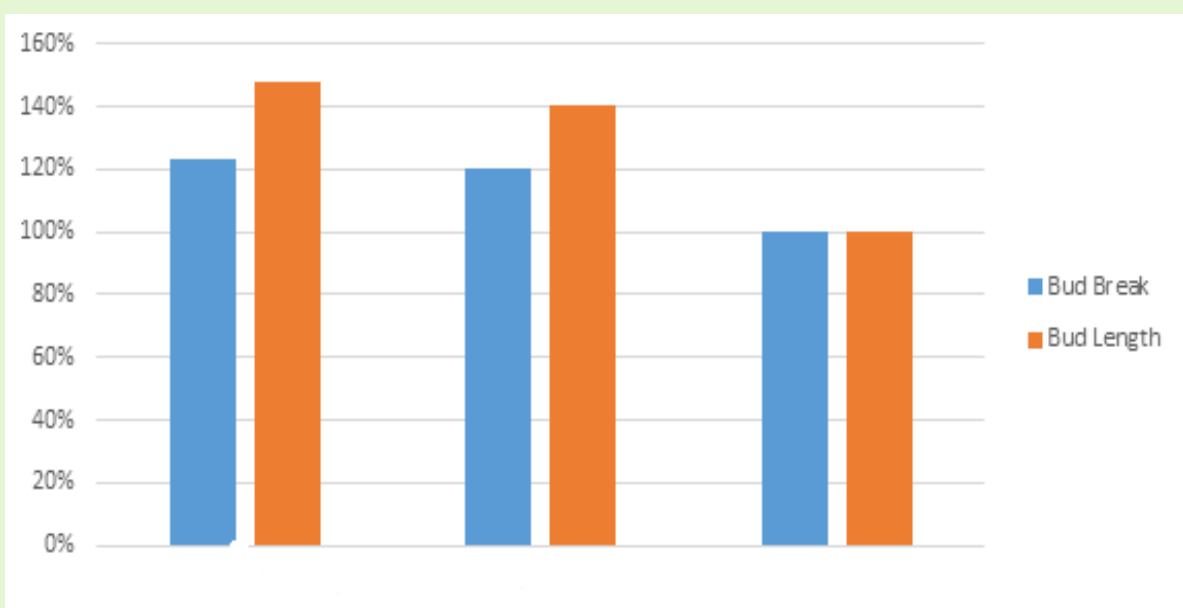
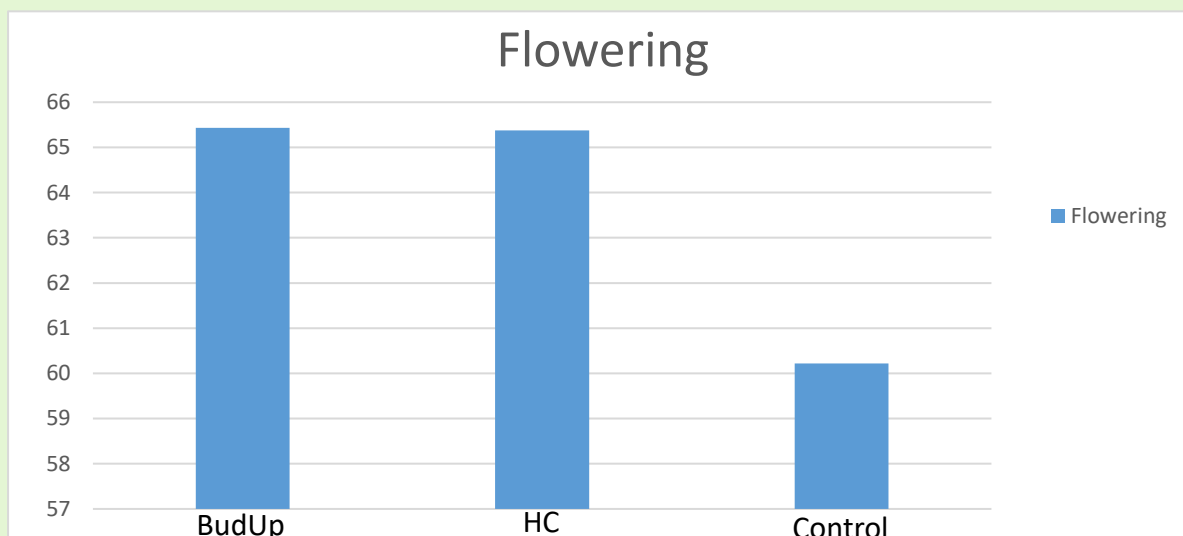
Example of Field Trials

#2: Var. Vitis vinifera, Northern Cape Province, RSA

2019-2021: Table Grapes

Field Trial conducted by a South African crop protection company

Spray Volume – 554 L/Ha



Example of Field Trials

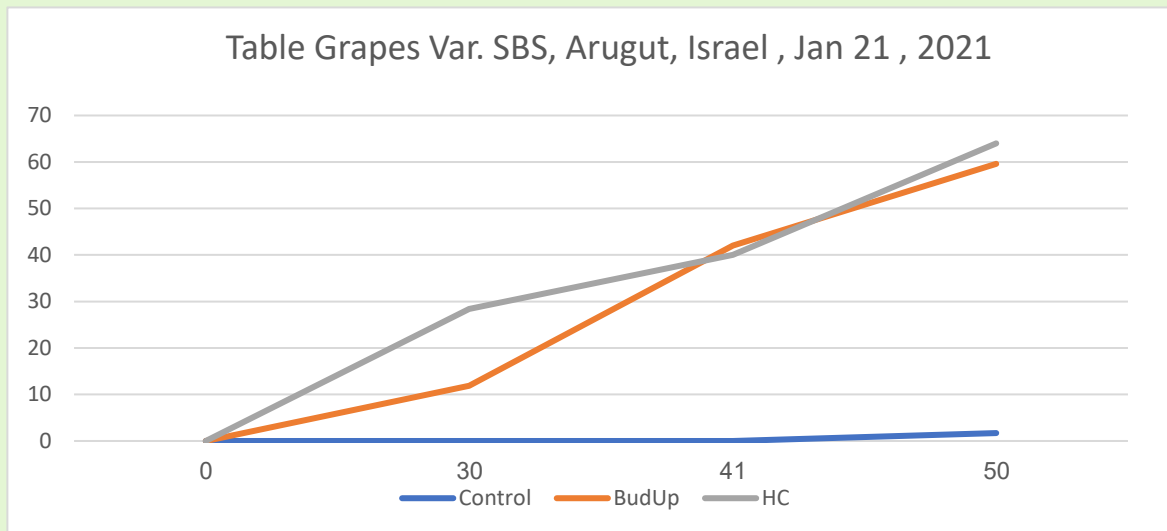
#3: Var. SBS, Arugut, Israel

2019-2021: Table Grapes

Conducted by an Israeli crop protection company

Spray Method – Motor knapsack sprayer

Spray Volume – Until run-off



Example of Field Trials

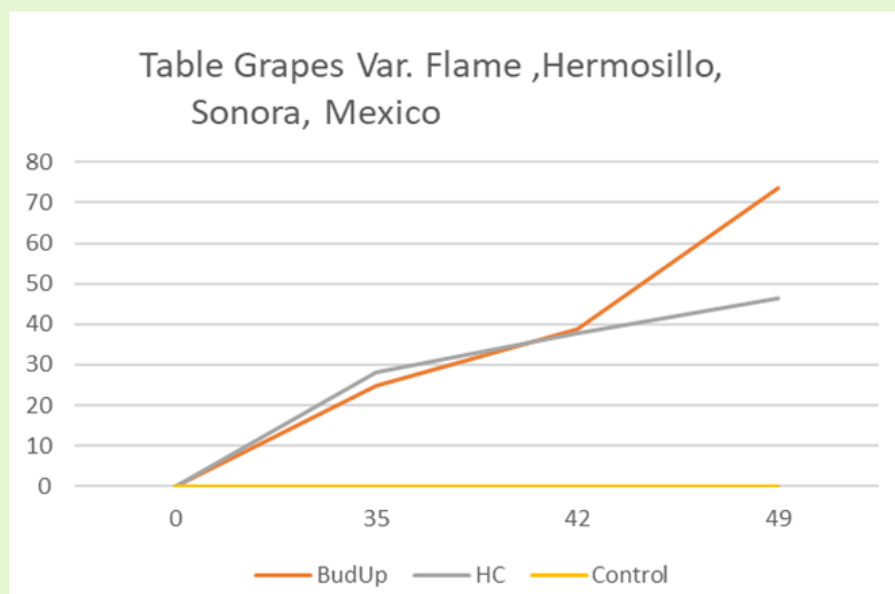
#4: Var. Flame, Hermosillo, Sonora, Mexico

2019-2021: Table Grapes

Conducted by an American crop protection company

Spray Method – Manual backpack sprayer using a flat fan nozzle 8005

Spray Volume – 1,500 L/Ha



HC 7 Weeks after treatment
46.29 % of Sprouting



Untreated Control (Water)
7 Weeks after treatment



BudUp 7 Weeks after treatment
73.71 % of Sprouting



Example of Field Trials

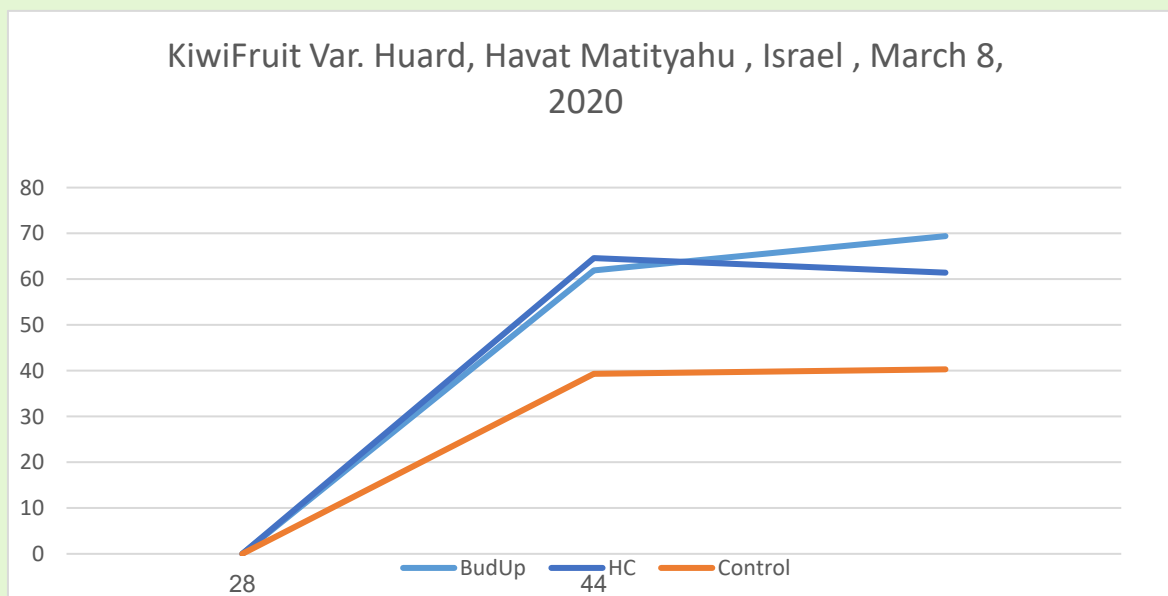
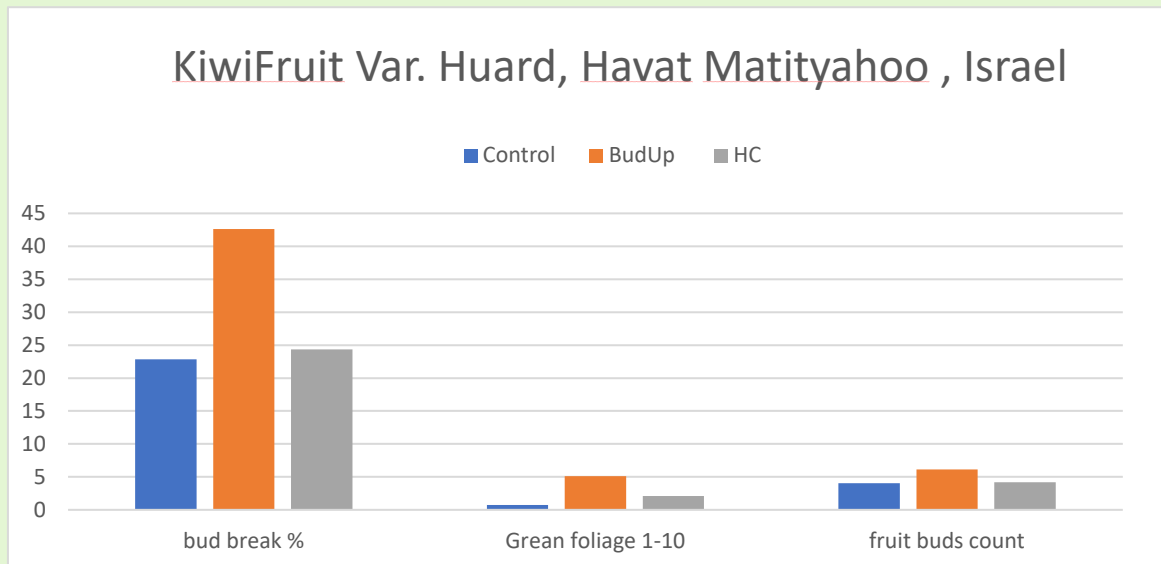
#5: Example of Kiwifruit Field Trials, Israel

2019-2021: Two trials of Kiwifruits

Conducted by an Israeli crop protection company

Spray Method – Motor knapsack sprayer

Spray Volume – Until run-off





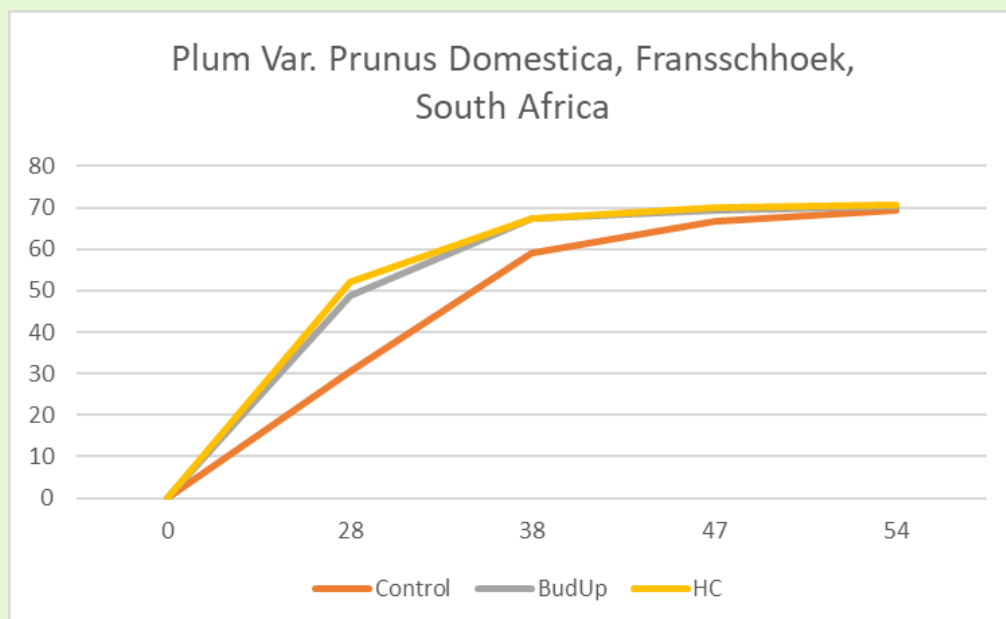
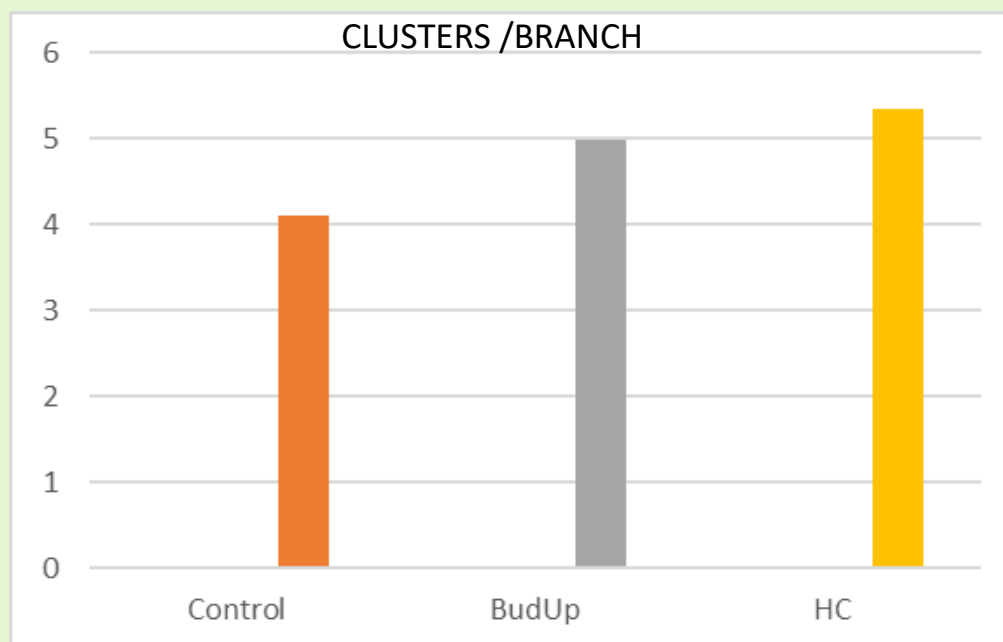
Example of Field Trials

#6a: Example Var. Prunus Domestica, Franschhoek, RSA

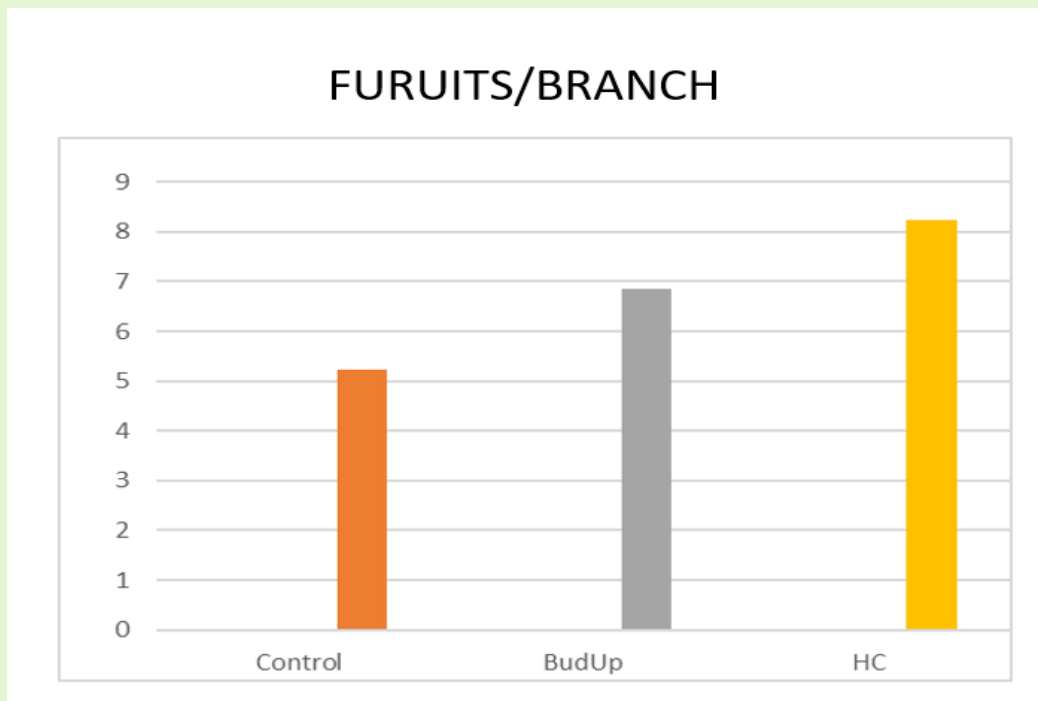
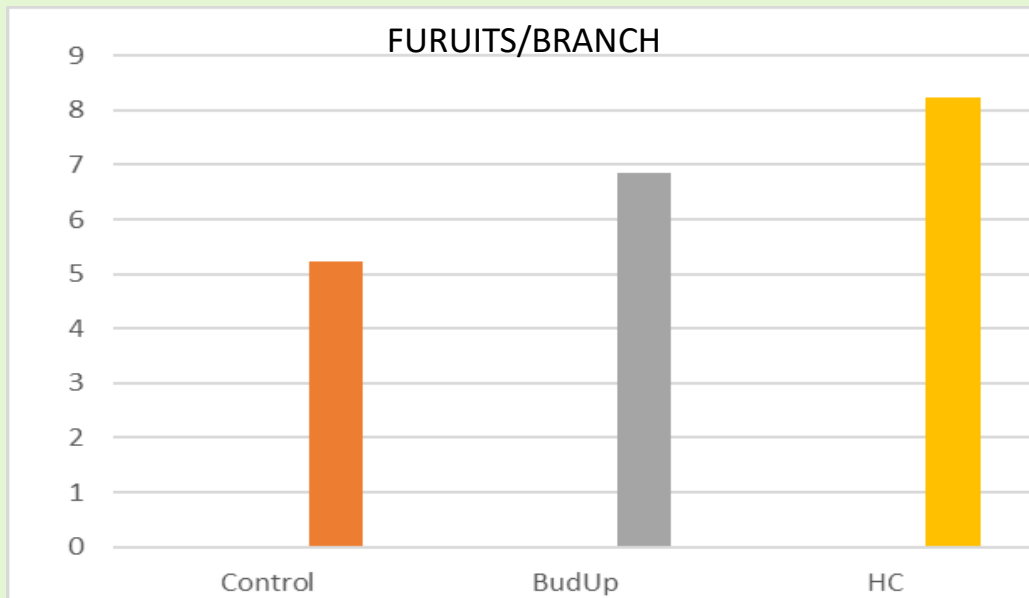
2019-2021: Plums and Apples

Conducted by a South African crop protection company

Spray Volume – 750 Ha/L



#6b: Example Var. Prunus Domestica, Franschhoek, RSA





From Technology to Product

Innovation is based on extensive academic research
and industrial development



Better for Farmers

Better for Plants

Better for the Environment

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