



Peruvian Vineyard
November 2007 thru January 2008
Testing / Demonstration
"GFTs Brix Solution"





Introduction

- GFT was contacted by Sal Giha, a Rep for GFT whose friends in Peru were challenged with several issues at their vineyard.
- Their initial goals were specific to their crop of Red Globe grapes.
- They were looking to:
 - Harvest earlier
 - Maximize the brix count
 - Grow bigger grapes
 - Get better color for the grapes
 - Have a longer shelf life
 - Grow more roots and be resistant to root knotting
 - Increase crop production

Other info:

- Harvest season was from November, 2007 to first week of January, 2008
- Ground fertilization started late July, 2007
- Present treatment: Cost without taxes for all foliage sprays \$300/hct (ex: 1 hct= 2.47 acres, or \$121/ acre)
- Cost without taxes to fertilize ground \$1,800/hct (or about \$730/ acre)
- Post harvest fertilization is from January to May.
- Note from Sal: *"I am not sure of the terminology in English but the stems of the red globe are "ingertos" (in English I think it is called "graph". It is when a stronger stem is used and the original plant is inserted into the stronger stem.)"*

Based on the "in-production soil sample results, the viticulturist wanted to know what GFT could do to help the situation and to allow him to achieve his goals. The farmer wanted to test 7.5 acres.



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Original Soil Results – Page 1

- The first step was to have soil tests taken on the vineyard area where GFT was to test. Soil from the Peruvian Vineyard was sent to GFT for independent lab testing. These next three pages are the results of those tests.

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Soil & Plant Laboratory, Inc.
Leaders in Soil & Plant Testing Since 1946

www.soilandplantlaboratory.com

Orange office
Lab No: 07-163-0002
June 19, 2007

Greenflash Technologies
1001 w. 17th St. Suite C
Costa Mesa, CA 92627

Attn: Jack Distaso

GIHA

Attached are the results of the analyses performed on two soil samples collected from the Giha project site and received by Soil and Plant Laboratory on June 12, 2007. These samples were labeled 'Virgin Soil' and 'Soil in Production'. These are areas in which grapes are reportedly currently growing or are planned. These samples were analyzed for nutrient levels and soil suitability in order to provide maintenance recommendations.

Analytical Results for 'Virgin Soil' Sample:

The soil is estimated to be a loamy sand to sandy loam based on the half saturation percentage. The reaction of the soil is moderately alkaline at 7.7 with high qualitative lime. The salinity (ECe) is highly elevated at 48.1 dS/m and is due to elevated sulfate, sodium and to a lesser extent, nitrate. This level of salinity is high enough that plants are not expected to survive. Boron was measured at 16.4 parts per million (ppm), which is high enough that plants are not expected to survive. The sodium adsorption ratio (SAR) is 66.6, indicating that soluble sodium is not properly balanced by calcium and magnesium. This imbalance is expected to have a severe negative impact on soil structure and drainage. The elevated SAR is expected to impede water percolation to the point that adequate leaching to remove salts is most likely not possible. Boron does not leach out of soils as easily as other salts and is elevated to the point that this soils is likely not reclaimable.

Due to the elevated ECe, SAR, and boron levels, this soil is not a medium in which plants are likely to establish and grow. Soil replacement is recommended. You may wish to sample the area at varying locations and depths in order to determine the size and depth of the contaminated area. Soil and Plant Laboratory's recommended specifications for an import soil are provided below.

Analytical Results for 'Soil in Production' Sample:

The reaction of the soil is slightly alkaline at 7.2 on the pH scale. The measurable lime content is high and will buffer strongly against downward adjustments of the pH. It may be possible to help bring about a downward adjustment of the pH by providing nitrogen with an acidifying source such as sulfur coated urea or ammonium sulfate.

The texture of the soil is estimated to be a sandy loam, based on the half saturation percentage. The estimate water infiltration rate is 0.38 inches per hour. This estimate may change based on the degree of compaction.

Nitrogen, phosphorus, and potassium are all above optimum. Iron is slightly below optimum. Calcium, magnesium, and all of the micronutrients, with the exception of iron, are available at good levels.

The ECe is elevated at 7.1 and is due primarily to elevated sodium and sulfate. Boron is near the upper end of what is considered low and safe at 0.96 ppm. The sodium adsorption ratio (SAR) is safely low, indicating that soluble sodium is properly balanced by calcium and magnesium.



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Original Soil Results – Page 2

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Analytical Results for 'Soil in Production' Sample Continued

It may be possible to bring the ECe to a more preferred level in the soil by providing the area with thorough leaching irrigations. Irrigations should be managed carefully in order to assure that water is allowed move through the soil profile rather than pooling or running off. The soil should be allowed to dry slightly between irrigations in order to avoid creating anaerobic soil conditions and/or an environment that favors the pathogens responsible for root diseases.

Comments and Recommendations

Grape nutritional requirements are generally based on petiole analysis. If you would like to submit petioles for the purpose of developing a fertility program, please feel free to contact us for detailed sampling instructions in order to ensure that the correct tissue is collected at the correct point in the season.

At this time no fertilizer application is recommended due to the fact that nitrogen, phosphorus, and potassium are all above full sufficiency at the time of sampling. The only micronutrient below optimum is iron and iron deficiencies in grapes are rare.

Due to the high fertility levels, the grapes may not require fertilization for at least a year. However, if color and growth dictate, you may wish to make two applications of actual nitrogen per acre. The first should occur next spring and the second after harvest.

Suggested Import Soil Specifications

CHEMISTRY

| | |
|--|---------|
| Reaction (pH) saturated paste | 6.0-7.6 |
| Salinity (EC _e dS/m) saturation extract | <3.0 |
| Sodium adsorption ratio (SAR) | <6.0 |
| Boron in saturation extract, ppm | <1.0 |

TEXTURE

| Particle Size | USDA Sieve Size (mm) | Objective – Percent Passing |
|----------------|----------------------|-----------------------------|
| Gravel | 2.0 | >95% |
| Coarse sands | 0.5 | >75% |
| Silt plus clay | 0.05* | <35% |

*Use Hydrometer method

If we can be of any further assistance, please feel free to contact us.

Jason Gihring

Email: jdistaso@greenflashtech.com



Original Soil Results – Page 3



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SOIL FERTILITY AND
MICRONUTRIENT ANALYSIS
AOI (partial) or A17 (full)

Orange Office
Lab No. 07-163-0002
Giha

| Samples Taken: | | | Samples Rec'd: 6/12/07 | | | | | | | | | | | | | | | |
|----------------|-------|----------|----------------------------------|-----------------|-----------------|-----|-----|------|-----|-----|-----|-----|------|-----------------|--------|--------------------|--------------------|--|
| Sam | Half | pH | Parts Per Million Parts Dry Soil | | | | | | | | | | | Sat | Ext | | | |
| ple | Sat%/ | Qual | NO ₃ | NH ₄ | PO ₄ | | | | | | | | | | ppm | meq/l | | |
| # | TEC | Lime ECE | N | N | P | K | Ca | Mg | Cu | Zn | Mn | Fe | B | SO ₄ | Na | Sample Description | | |
| | | | | | | | | | | | | | | | | (SAR) | Log Number | |
| 00656 | 12 | 7.7 | 48.1 | 100 | 6 | 22 | 206 | 2594 | 65 | 1.0 | 0 | 5 | 5 | 16.40 | 103.85 | 75.0 | Virgin Soil | |
| | 141 | High | | 4.4 | 1.5 | 1.2 | 1.1 | 0.2 | 0.5 | 0.1 | 0.3 | 0.1 | 54.7 | 34.6 | (66.6) | 07-G12380 OR-53 | | |
| 00657 | 16 | 7.2 | 7.1 | 76 | 4 | 60 | 283 | 1316 | 124 | 0.8 | 10 | 7 | 13 | 0.96 | 30.4 | 19.6 | Soil in Production | |
| | 68 | High | | 2.5 | 3.1 | 2.7 | 1.2 | 0.8 | 0.9 | 2.8 | 1.0 | 0.4 | 3.2 | 10.1 | (4.0) | 07-G12381 OR-53 | | |

6/15/07

Sufficiency factor (1.0=sufficient for average crop) below each nutrient value. N factor based on 200 ppm constant feed. The value below sodium (Na) result is the SAR = Sodium adsorption ratio. Half Saturation %=approx field moisture capacity. Sat.ext. method for salinity (ECE as dS/m), Boron (B), Sulfate (SO₄), and Sodium (Na). Major elements, Nitrogen(N),Potassium(K), Calcium(Ca) and Magnesium(Mg) by sodium chloride extraction. Phosphorus(P) by sodium bicarbonate extraction. Copper(Cu), Zinc(Zn), Manganese(Mn) & Iron(Fe) by DTPA extraction. TEC(listed below Half Sat.) = Est.Total Exchangeable Cations (meq/kg).



Protocol...

- After reviewing the results of the lab test on the soil; and taking into consideration the goals of the viticulturist; the growing season; weather conditions and more, the following protocol was created.

| RED GLOBE GRAPE PROTOCOL RECOMMENDATION | | | | | | |
|--|-----------|-----------------|--------------------------|------------------|--------------------------|-------------------|
| TIME DAYS | TREATMENT | PRODUCT | AMOUNT PER ACRE (QUARTS) | PRICE PER ACRE | TOTAL ACRES 7.5 (QUARTS) | PRICE |
| PLANT (P) | 1 | SALTDETOX-1051 | 4 | 120.00 | 30 | 900.00 |
| P+15 | 2 | SALTDETOX-1051 | 3 | 90.00 | 22.5 | 675.00 |
| P+45 | 3 | SALTDETOX-1051 | 3 | 90.00 | 22.5 | 675.00 |
| SUBTOTAL | | | 10 | 300.00 | 75 | 2,250.00 |
| HARVEST (H) | | | | | | |
| H - 21 | 4 | BRXBOOST-814 | 1 | \$19.75 | 7.5 | \$148.13 |
| | | SOILBOOST-CA941 | 0.25 | \$4.44 | 1.875 | \$33.28 |
| H - 10 | 5 | BRXBOOST-815 | 1.5 | \$29.63 | 11.25 | \$222.19 |
| | | SOILBOOST-CA941 | 1 | \$17.75 | 7.5 | \$133.13 |
| SUBTOTAL | | | | \$71.56 | | \$536.72 |
| TOTAL | | | PER ACRE | \$371.56 | 7.5 ACRES | \$2,786.72 |
| UNIT PRICES | | | GALLON | PER QUART | | |
| SALTDETOX-1051 | | | \$120 | \$30.00 | | |
| BRXBOOST-814 | | | \$79 | \$19.75 | | |
| BRXBOOST-815 | | | \$79 | \$19.75 | | |
| SOILBOOST-CA941 | | | \$71 | \$17.75 | | |
| Other suggestions: | | | | | | |
| Cancel all further magnesium applications | | | | | | |
| Cancel all further urea applications | | | | | | |
| Cancel all further ammonium nitrate applications | | | | | | |



Preparation / Shipment

- Products were packed and crated for the long trip to Peru, where they arrived safely and in time for the applications to be effective.



Peruvian Story...

- The next few pages were compiled by the Peruvian Viticulturist and were not altered by GFT.





GFT Products That Were Applied for Coloration of the Bunches...





- Products were applied by using an electro static spray system, permitting a uniform application of the product.



The Application of the products BrixBoost -814™, BrixBoost-815™ and Soil Boost-Ca941™ has rendered a better coloration and ripeness for each bunch, generating a better and more uniform harvest.



The BrixBoost-814™, BrixBoost-815™ and SoilBoost-Ca941™ have permitted a more uniform coloration of the bunches.

Though this years climate conditions were not favorable for this test (a lot of over-cast, less sun than other years), the GFT products showed improvement in the harvest compared to that of the Comparison Area.





Reaching grape calibers of XL, and J in 40% of the harvest for both the "Area R" and "Experiment Area".



The coloration of the bunches in the Comparison Area B, showed problems by not reaching a uniform coloration.





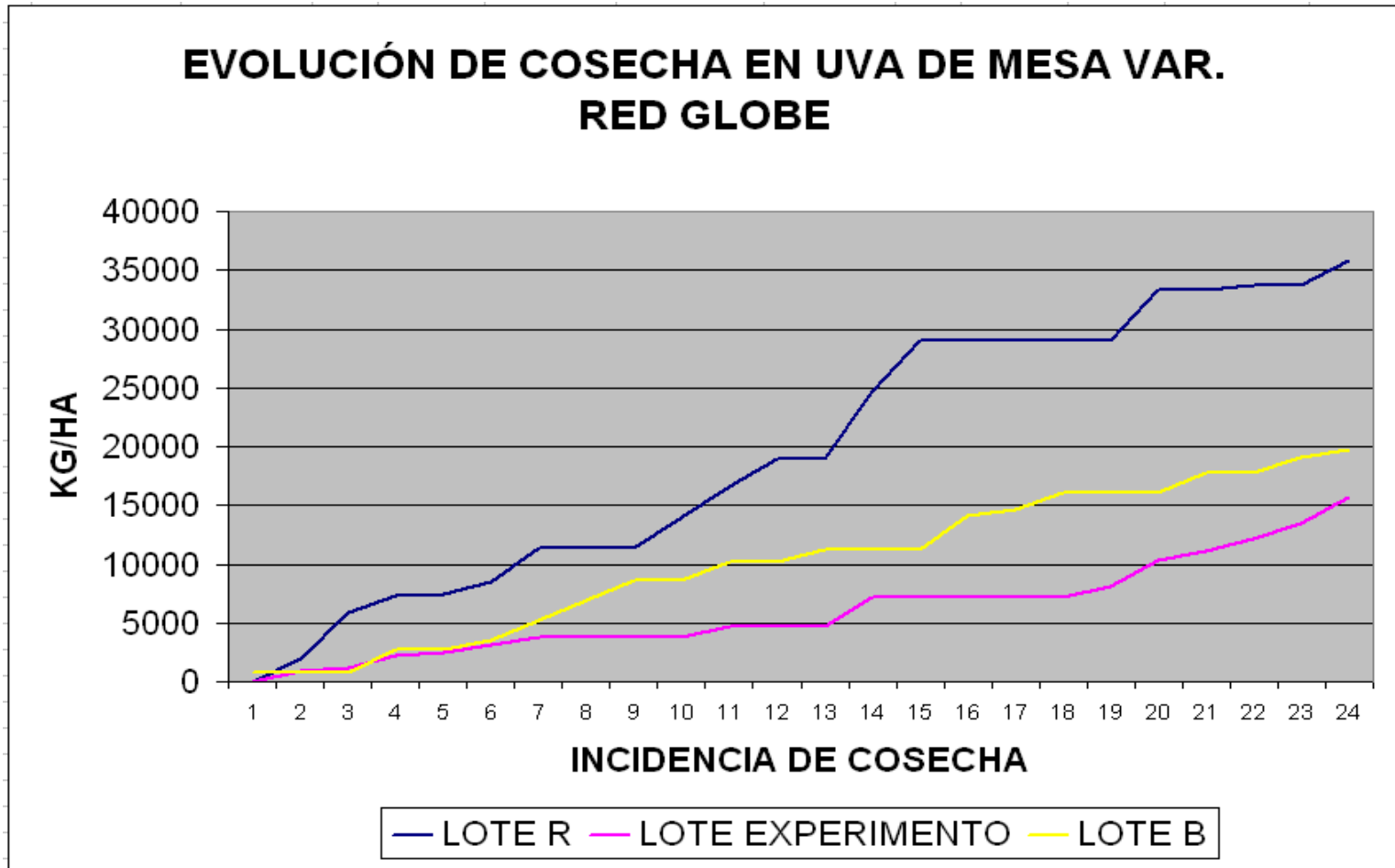
Harvest evolution for 2007 campaign

| FUNDO SACRAMENTO SAC. | | | | | | | | | | | | | |
|--|--------------|--------------|-----------|---------------|------------------|--------------|--------------|---------------|--------------|--------------|--------------|------------------|--|
| SECTOR I: UVA DE MESA VARIEDAD RED GLOBE | | | | | | | | | | | | | |
| IIICIDENCIA DE COSECHA | LOTE R kg | kg/ha | ACUMULADO | FECHA 1 ha | LOTE EXPERIMENTO | | ACUMULADO | FECHA 2 ha | LOTE B kg | kg/ha | ACUMULADO | FECHA 2,82 ha | |
| | | | | | kg | kg/ha | | | | | | | |
| 1 | 0 | 0 | 0 | | 0 | 0 | 0 | | 2366 | 839 | 839 | 39444 | |
| 2 | 1950 | 1950 | 1950 | 03/01/2008 | 1868 | 934 | 934 | 03/01/2008 | 0 | 0 | 839 | | |
| 3 | 3935 | 3935 | 5885 | 04/01/2008 | 452 | 226 | 1160 | 04/01/2008 | 0 | 0 | 839 | | |
| 4 | 1470 | 1470 | 7355 | 07/01/2007 | 2187 | 1093,5 | 2253,5 | 07/01/2007 | 5461 | 1937 | 2776 | 07/01/2007 | |
| 5 | 115 | 115 | 7470 | 09/01/2008 | 584 | 292 | 2545,5 | 09/01/2008 | 0 | 0 | 2776 | | |
| 6 | 986 | 986 | 8456 | 14/01/2008 | 1140 | 570 | 3115,5 | 14/01/2008 | 2200 | 780 | 3556 | 14/01/2008 | |
| 7 | 2858 | 2858 | 11314 | 17/01/2008 | 1393 | 696,5 | 3812 | 17/01/2008 | 4846 | 1718 | 5274 | 17/01/2008 | |
| 8 | 0 | 0 | 11314 | | 0 | 0 | 3812 | | 4661 | 1653 | 6927 | 19/01/2008 | |
| 9 | 0 | 0 | 11314 | | 0 | 0 | 3812 | | 4867 | 1726 | 8653 | 21/01/2008 | |
| 10 | 2725 | 2725 | 14039 | 22/01/2008 | 0 | 0 | 3812 | | 0 | 0 | 8653 | | |
| 11 | 2568 | 2568 | 16607 | 24/01/2008 | 1914 | 957 | 4769 | 24/01/2008 | 4315 | 1530 | 10183 | 24/01/2008 | |
| 12 | 2320 | 2320 | 18927 | 26/01/2008 | 0 | 0 | 4769 | | 0 | 0 | 10183 | | |
| 13 | 0 | 0 | 18927 | | 0 | 0 | 4769 | | 3028 | 1074 | 11257 | 29/01/2008 | |
| 14 | 5765 | 5765 | 24692 | 30/01/2008 | 4827 | 2413,5 | 7182,5 | 30/01/2008 | 0 | 0 | 11257 | | |
| 15 | 4286 | 4286 | 28978 | 31/01/2008 | 0 | 0 | 7182,5 | | 0 | 0 | 11257 | | |
| 16 | 0 | 0 | 28978 | | 0 | 0 | 7182,5 | | 8047 | 2854 | 14110 | 02/02/2008 | |
| 17 | 0 | 0 | 28978 | | 0 | 0 | 7182,5 | | 1368 | 485 | 14595 | 04/02/2008 | |
| 18 | 0 | 0 | 28978 | | 0 | 0 | 7182,5 | | 4015 | 1424 | 16019 | 05/02/2008 | |
| 19 | 0 | 0 | 28978 | | 1881 | 940,5 | 8123 | 06/02/2008 | 0 | 0 | 16019 | | |
| 20 | 4394 | 4394 | 33372 | 07/02/2008 | 4397 | 2198,5 | 10321,5 | 07/02/2008 | 0 | 0 | 16019 | | |
| 21 | 0 | 0 | 33372 | | 1488 | 744 | 11065,5 | 08/02/2008 | 5035 | 1785 | 17805 | 08/02/2008 | |
| 22 | 415 | 415 | 33787 | 09/02/2008 | 2128 | 1064 | 12129,5 | 09/02/2008 | 0 | 0 | 17805 | | |
| 23 | 0 | 0 | 33787 | | 2766 | 1383 | 13512,5 | 12/02/2008 | 3754 | 1331 | 19136 | 12/02/2008 | |
| 24 | 2072 | 2072 | 35859 | 13/02/2008 | 4275 | 2137,5 | 15650 | 13/02/2008 | 1622 | 575 | 19711 | 13/02/2007 | |
| TOTALES | 35859 | 35859 | | | | 31300 | 15650 | | | 55585 | 19711 | | |

Data obtained to date: this data will be refreshed in approx. 10 days, when the harvest has been completed.



Harvest evolution for 2007 campaign



Data obtained to date: this data will be refreshed in approx. 10 days, when harvest has completed.



Condition evaluation of Fruit: Calibers (%)

| FUNDO SACRAMENTO SAC. | | | | | | | | | | | |
|--|----------|-------------|--------------|-------------|----------|-------------|--------------|----------|----------|-------------|--------------|
| SECTOR I: UVA DE MESA VARIEDAD RED GLOBE | | | | | | | | | | | |
| LOTE R | TOTAL/HA | 35859 | | LOTE | TOTAL/HA | 15650 | | LOTE B | TOTAL/HA | 19711 | |
| | | % | KG/CALIBRE | EXPERIMENTO | | % | KG/CALIBRE | | | % | KG/CALIBRE |
| CALIBRES | J | 30% | 10758 | CALIBRES | J | 15% | 2348 | CALIBRES | J | 5% | 986 |
| | XL | 50% | 17930 | | XL | 45% | 7043 | | XL | 40% | 7884 |
| | L | 10% | 3586 | | L | 25% | 3913 | | L | 30% | 5913 |
| | M | 10% | 3586 | | M | 15% | 2348 | | M | 25% | 4928 |
| TOTALES | | 100% | 35859 | | | 100% | 15650 | | | 100% | 19711 |

Test areas:

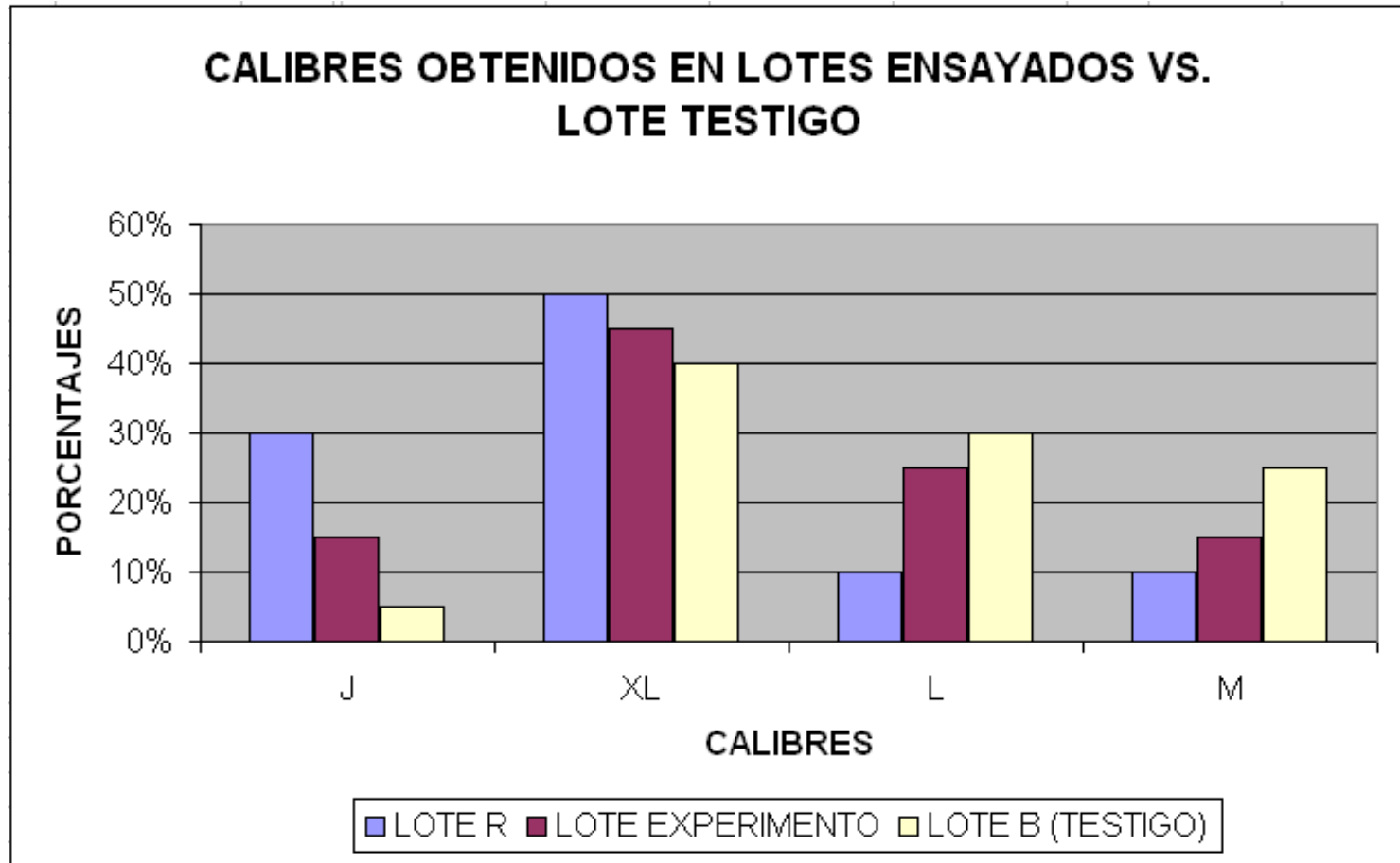
"Area R" and "Experiment Area"

VS.

Comparison Area: "Area B"



Condition evaluation of Fruit: calibers (%)



Test areas:

"Area R" and "Experiment Area"

VS.

Comparison Area: "Area B"



CONCLUSIONES DEL ENSAYO

- The product Salt Detox-1051™ demonstrated to be a good alternative for the salt control present in the soil for the plants: the test areas ("Area R" and "Experiment Area") showed a better and faster recuperation and in turn produced a better condition of canopy and fruit.
- The test areas treated with Brix Boost-814™, BrixBoost-815™ and SoilBoost-Ca941™ reached a higher volume of harvest compared to that of the comparison area, obtaining up to as much as 25% more harvest/ hectare.

Data obtained to date: this data will be refreshed in approx. 10 days, when the harvest has been completed.



Test Conclusions

- The tests resulted in a higher percentage of superior calibers by volume harvested. Up to 40% more of the XL, and J calibers in the Areas treated ("Area R" and "Experiment Area") with GFT products.
- More uniform harvest results (color) and because of this, the volume of exportable grapes was higher in the test areas. Also a lower margin of discardables (1.5 to 3%).

Data obtained to date: this data will be refreshed in approx. 10 days, when the harvest has been completed.



Final...

- As a result of the successful outcome on the vineyard, the owner is sending several of his key people to GFTs offices to be trained in additional products, protocols and applications.
- For further information please contact:

Jack Distaso, CEO

GreenFlash Technologies

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