Crops Environment & Land Use Programme

Johnstown Castle

**Teagasc National Berry Seminar and Trade Show 2012** Sponsored by Bord Bia and the Irish Soft Fruit Growers Association Dolmen Hotel, Carlow Tuesday, 1 May 2012



IRISH SOFT FRUIT GROWERS ASSOCIATION





# Teagasc

# National Berry Seminar & Trade Show 2012

Tuesday, 1 May 2012

In association with

Irish Soft Fruit Growers' Assocation and Bord Bia

# Seminar Programme

6.00pm	Light refreshments	
6.45pm	Official Opening of Seminar by Minister of State, Mr. Shane McEntee Department of Agriculture, Food and the Marine	
	Chairman: Mr Gary McCarthy, Vice Chairman, I.S.F.G.A	
7.00pm	Improving strawberry module plant production technology Mr. Gebremedhin Beyene & Dr. Eamonn Kehoe, Teagasc, Kinsealy Research Centre, Dublin	
7.20pm	Precise irrigation for berry crops Mr. Peter Robinson, Netafim UK Ltd & Revaho, Lancashire, United Kingdom	
7.40pm	Recent trends in soft fruit sales Mr. Michael Slawski, Bord Bia Horticulture Division	
8.00pm	The use of new and novel bio-control agents for berry pests Mr. Michael Gaffney, Teagasc Kinsealy Research Centre, Dublin	
8.20pm	Increasing productivity through creating champion employees Mr. Chris Rose, Chris Rose Associates, Kent, United Kingdom	
9.00pm	Address by Mr. James Kearns, Chairman, I.S.F.G.A	
9.10pm	Close of day by Mr. Jim O'Mahony, Head of Horticulture, Teagasc	
9.20pm	Tea and coffee	

## Foreword

### The Irish Berry Sector: one of the gems of Irish Commercial Horticulture

The Irish berry sector is one of the most exciting, rewarding and profitable sectors of Irish Horticulture. Entrepreneurs abound.

Protected strawberry production is now the mainstay of the berry industry in Ireland. The fresh strawberry industry alone has grown by 190% over the last 10 years. Consumers are now eating €35 million worth of Irish strawberries every year. Irish people sure do like strawberries!! While some would have expected this sector to suffer badly during the recent recession this never materialised.

Why was this?

People have become more health conscious and are consuming more berries as a result. People also cannot resist the tasty, healthy and high 'quality' berries that we produce. At the present time many consumers have also swapped 'eating out' for 'eating in' and the berries business has benefited.

There is no doubt that this sector will continue to thrive. Healthy eating, favourable demographics and high 'quality' berries will drive the sector on.

Whether fruit is produced for the home market or for export the future is 'very' bright for our sector.

Eamonn Kehoe Teagasc

Dr.Eamonn Kehoe, Teagasc, Johnstown Castle, Co.Wexford & Kinsealy Research Centre, Malahide Rd, Dublin 17. 053 91-71350 <u>eamonn.kehoe@teagasc.ie</u> (Research & Advisory)

## **Exhibitors and sponsors**

**Bord Bia,** Clanwilliam Court, Lower Mount Street, Dublin 2 Contact Mr. Michael Slawski. Tel: 01 6685155 - Fax: 01 6687521 Web: <u>www.bordbia.ie</u>

**Bord na Móna Horticulture Ltd.,** Main Street, Newbridge, Co.Kildare Contact: Ms. Anna Kavanagh Tel: 087 1250052 Email: anna.kavanagh@bnm.ie www.bordnamonahorticulture.ie

**Deker Horticultural Suppliers Ltd.,** Tullyard, Trim, Co.Meath. Contact Mr. Derek Warren. Tel: 046 9431422. Fax: 046 9437692 Email: sales@dekerthort.ie Web: www.dekerhort.ie

**GlobeWeigh Ltd.,** 118 Portadown Road, Mulavilly, Co. Armagh BT62 2JX. Contact Mr. Damien Fegan. Tel: 048 38840714. Fax: 048 38840420 Email: sales@globeweigh.com. Web: www.globeweigh.com

Irritec Ltd., Unit 22, Turvey Business Park, Turvey Avenue, Donabate, Co.Dublin. Contact Mr. Paul Kunkles Tel: 01 8404033 - Fax: 01 8405337 Email: sales@irritec.ie

National Agrochemical Distributors, Blakes Cross, Lusk, Co.Dublin. Contact Mr.Colm Matthews Tel: 01 843-7808 Fax: 01 843-7909 Email Colmm@nadirl.com. Web: www.nad.ie

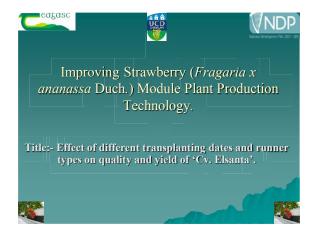
Unichem Ltd., The Ward, Co.Dublin Contact Ms. Mary O'Rourke Tel: 01 8351499 – Fax: 01- 8351284 Email: maryorourke@unichem.ie

List represents all confirmed trade exhibitors on print deadline date 26/4/2012

**Seminar Papers** 

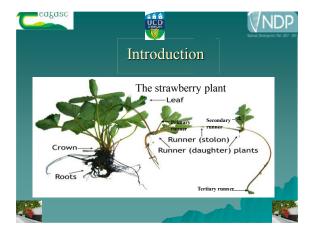






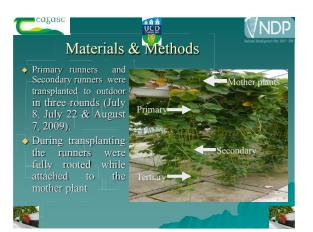














# Cagasc Materials and Methods In the outdoor the runners were misted with nutrient solution Sample plants from each treatments were dissected (Oct. 30 and Nov. 30, 2009), Crown diameter measured leaf number, initiated

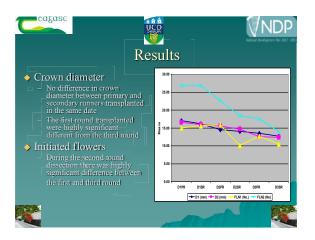
- Crown diameter measured, leaf number, initiated flower numbers were counted,
- Fully dormant plants from all treatments were field cold stored
- In spring they were planted in to the glasshouse
- Data for fruit yield and yield quality (phenolics, TSS and TTA) were measured
- Data were analysed using SAS statistical program



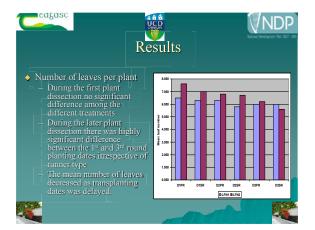




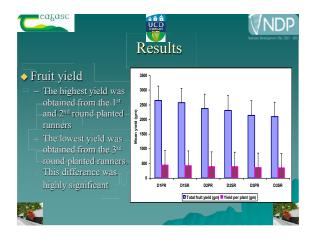




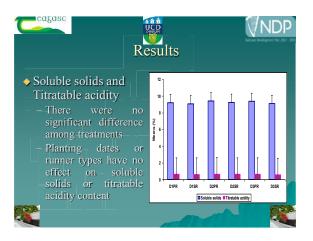




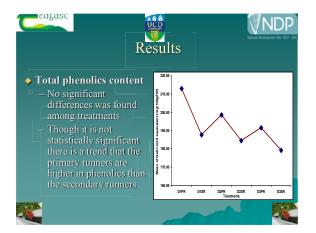
















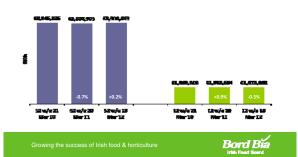






ROI grocery market is in growth over 52w by just +0.2%. Over 12w, the ROI Grocery Market is in decline of -0.5%.

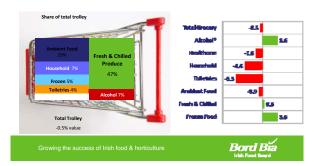
Total Grocery - market value & YoY %chg

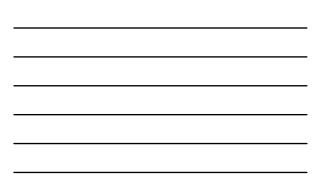




Toiletries and Household sectors has market value decline

12w Total Grocery - sectors value shares & YoY %chg





#### TOTAL BERRIES - KEY PERFORMANCE MEASURES





Total Fresh Produce – Key Performance Measures - Yearly Total Produce is in growth driven by an increase in volume as shoppers visit the fixture more often compared to last year Tat Produce | Tate Outer | 15 we | 16 Mar 12

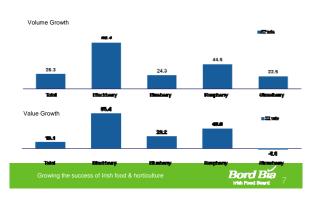


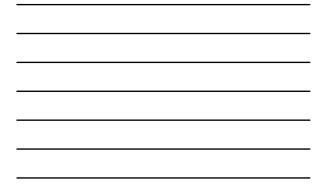


TOTAL BERRIES - ROLLING CONTRBUTION

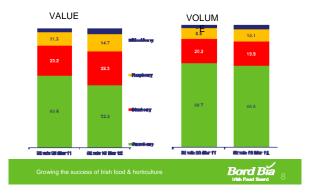


Bord Bia

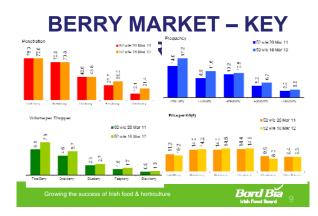




TOTAL BERRIES SECTOR SPLIT YEARLY



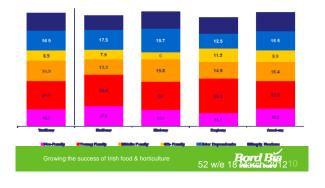






BERRIES SECTOR GROWTH YEARLY

#### BERRIES LIFESTAGE PROFILE





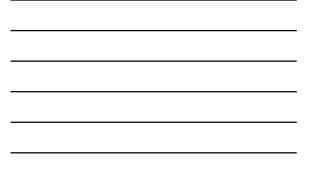












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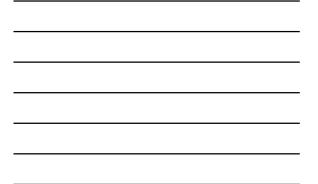










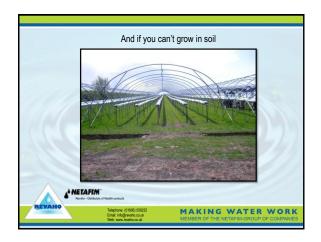


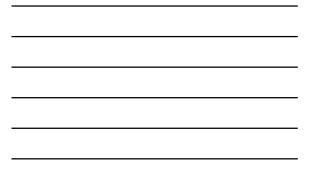
















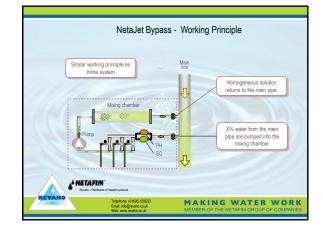
















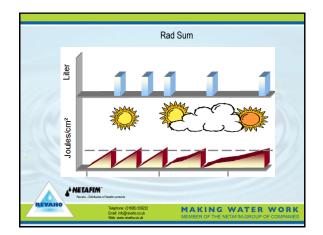




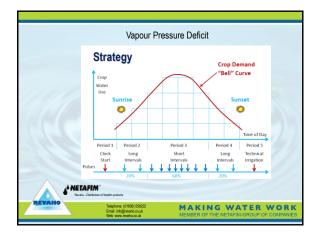




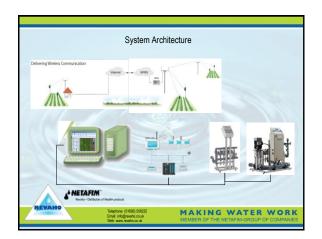






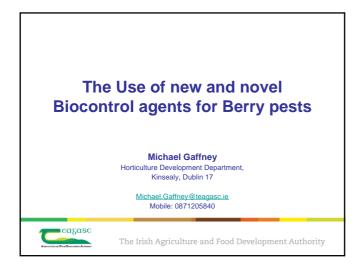










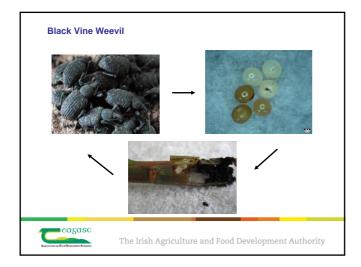


#### **Overview of Insect Pest Control**

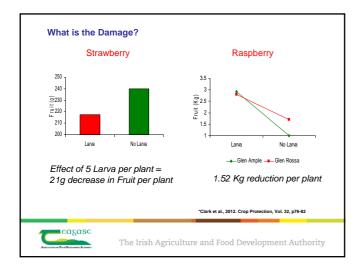
- Estimated that 50% of PPP's registered in EU by 2020 will be Biocontrol Agents
- The proposed 'Sustainable Use of Pesticides Directive' may restrict the use of some pesticides
- Current available biocontrol products are increasingly effective

eagasc

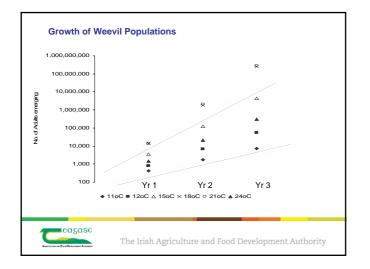
The Irish Agriculture and Food Development Authority



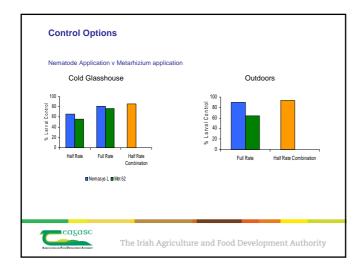




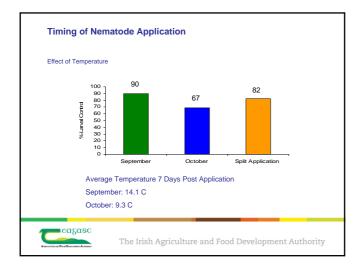




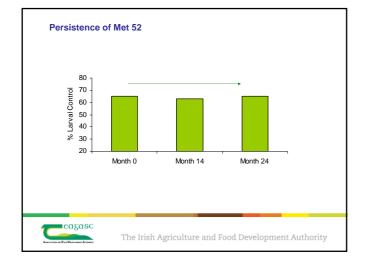




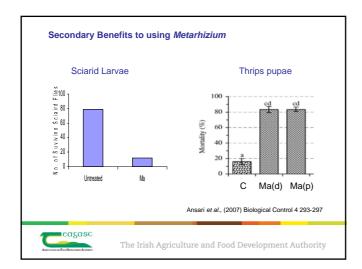




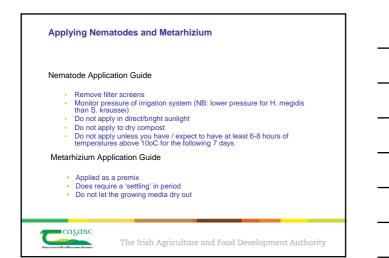






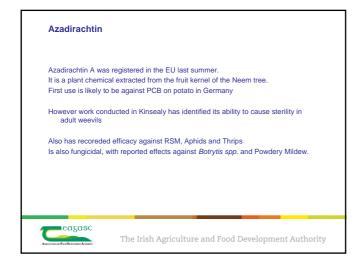


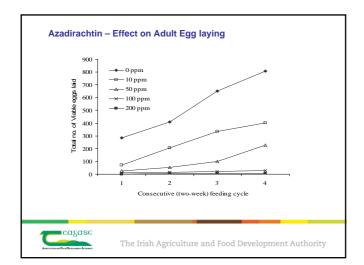




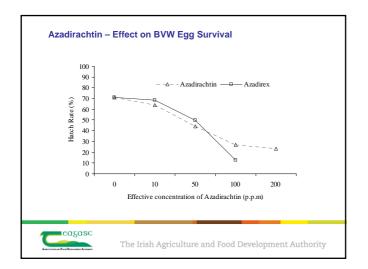
UK situation – Ta Current Trials ass	lstar (Bifentrin) withdraw sessing –	n in 2010
Steward	indoxacarb	Killed 60-70% of Adults Present*
Chess	pymetrozine	Killed 60-70% of Adults Present
Hallmark	Lambda-cyhalothrin	Some effect in 2010, none in 2011
Calypso	Thiacloprid	Not Effective
Gazelle	Acetamiprid	Not Effective
Pyrethrum 5EC	Natural Pyrethrin	Not Effective
Toppel	Cypermethrin	Not Effective
*Steward has a	specific restriction on Sc	oft Fruit in the UK
Future Opt	ions?	





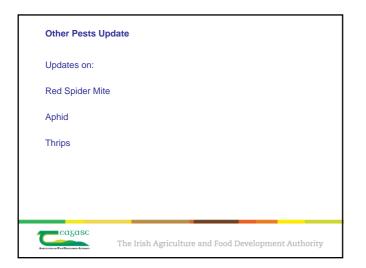














# Increasing Productivity <sup>by</sup> Creating Champion Employees

Chris Rose

## Labour Costs

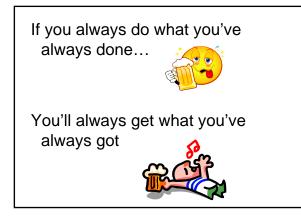
- Labour is the biggest production cost
- The cost of labour increases every year
- Returns are more often static
- Without efficiency gains, how will you stay in business?



#### How much variation is there between your best and your worst workers?

## Variation in Picking Speed

- Fastest pickers are 2 x speed of average
- 2.7 x speed of bottom 25%
- Top 75% improve over the season by 30%
- Bottom 25% improve by 1%



### Sourcing the Right Labour

- How carefully do you recruit labour?
- Do all your workers want to be here?
- Are they all genuinely hungry to earn?
- Careful pre-selection filters out the nonmotivated
- CP 58 The Development of a Pre-selection System for Seasonal Horticultural Labour



## **Induction & Training**

1<sup>st</sup> Impressions count



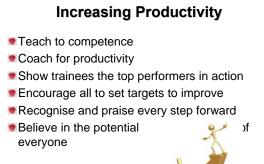
- They will be tired, stressed and unsure
- Explain what will happen next steps
- Use an interpreter if needed

Be friendly & welcoming. Smile

## **Induction & Training**

#### Trained labour outperforms keen beginners

- Organise a training programme:
- Define the tasks to be mastered
- Set performance standards
- Teach each task
- Ensure later intakes get the same
- me
- Monitor performance daily
  Recognise achievement





## What is a Champion Worker?

- Does the job to the required standard
- Does not need to be monitored



- Does the job very effectively
- Gets superb results consistently

# The Champion Picker Model Crop Specific (Strawberry) Traits

- Thorough consistent search pattern
- Pick with both hands simultaneously
- Read the plant and think ahead
- Move the sledge accurately with the foot
- Listen to their bodies

# The Champion Picker Model Generic Traits

- Strongly goal-oriented
- Physically fit and strong
- They are good modellers
- Consistent positive mindset
- Set a sustainable pace and rhythm
- Keep fully focussed

### **Champion Supervisors**

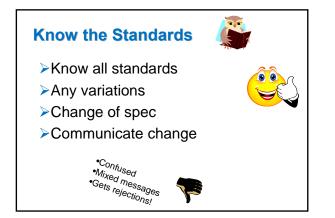
- Select carefully
- 🖲 Train well
- Teacher (Policeman) Speed Coach
- Measure performance
- Reward results
- CP 59 The Development of a Champion Supervisor Model and Training Programme

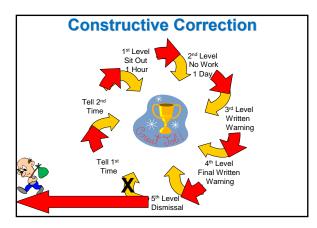






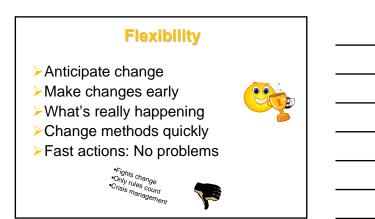












### What to do?

- Wherever teams or individuals are performing the same task:
- Measure variation in performance
- Seek to understand reasons why
- Plan to reduce it by x% 20%? 40%?
- Develop 'speed coaches'



### Best Practice in Harvest Organisation

- Observe
- Harvest is a busy time
- Do you know what should be happening... or what is really happening?
- Get a 3<sup>rd</sup> party to audit your harvest



## Strategic Planning & Field Design

Do your harvest staff have a say in:

- Field size
- Block size
- Row length
- Size of headland
- Central roadway width
- Grassing headlands



# Configuration

- 2-Row bed?
- 3-Row bed?
- Low or high bed?
- Soil or substrate?
- Ground level or table-top?







# Tunnels

- 4 Bed?
- 5 Bed?
- Wider leg rows?
- What alley width?
- Standardised system



# Picker Organisation

- Start of the day
- Keep the picker picking
- Runners
- Individual vs team payment
- Gang size









# **Collection Point Organisation**

- Weigh or no way?
- Avoid queuing
- Q.C. or just book in?
- Book in on field or at farm?
- Data-logging systems
- Fruit carting





### New Mantra

"Right 1<sup>st</sup> time and on time every time"

We must add

"in the most efficient, cost-effective manner possible"





## Membership Form for ISFGA

<u>2012</u>

Name:	 	
Address:		
Phone:	 	
Mobile*:	 	_
Fax:	 	
Email:	 	
Fruit Produced:		
Strawberries	 Blackberries	Blackcurrants
Raspberries	 Blueberries	Other

I enclose my €80 subscription made payable to: Irish soft fruit growers association.

# Please fill out form and return with payment to:

Mr. David Redmond, Treasurer ISFGA, Corderry Fruit Farm, Knockbridge, Dundalk, Co.Louth.

\*Mobile numbers will only be used to send updates by SMS text and will not be disclosed to any third party.

## **Contact Details:**

#### Teagasc Crops, Environment & Land-Use Research Centre

Johnstown Castle, Co. Wexford Tel: +353 (0) 53 9171200 Fax: +353 (0) 53 9142213 Email: Johnstowncastle.laboratories@teagasc.ie

www.teagasc.ie





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