

# Annual General Meeting- 2018.



## **AGM business**

- ► Welcome
- Apologies
- Minutes of the previous meeting
- Business arising out of the minutes
- Annual Report and Financial Statements
- Board chairman's report
- Business managers report
- Guest speaker- Dr. Nicole Robinson from the University of Queensland. Topic-

"The future in nitrogen fertilisation- next generation fertilisers".

HCPSI



## Board chairman's report

### **ADMINISTRATION**

- The 2017/18 financials were duly audited and a copy is available for viewing.
- Grower membership is ~99.97% of area harvested- the largest grower membership of any voluntary Herbert industry support agency.
- Wilmar continues to be a member, matching dollar for dollar grower funding in the core service program.



### **ADMINISTRATION**

- The 2017/18 budget has been approved by the HCPSL company directors.
- The total budget was set at \$8.46/ha for each the grower and miller to pay. Total of \$16.92/ha. There is no change in the service fee for the past 3 years.
- The external funded component of the HCPSL business is now significant, with external funding coming from Government projects, NRM groups, private companies (agri-chemical and fertiliser companies) and universities.





## Staffing

Core funded staff:

- Lawrence Di Bella (Manager)
- Sue Becarris (Admistration Officer- 4 days a week)
- Sandra Coco (Resource Officer)
- Graeme Holzberger (Field Agronomist- Grower Services)
- Tony Mc Clintock (Field Agronomist- Grower Services)
- Adam Royle (Extension Agronomist- Crop Nutrition and Water Quality)
- Sam Sellick (Field Agronomist- Variety Development)
- Mike Sefton (Geospatial and Data Systems Officer)
- Sam Lamari (field worker on farms and seed cane production- casual)
- Other casual fieldworkers who assist with seed cane production

### Externally funded staff:

- ▶ Richard Hobbs (Extension Agronomist- Farming Systems and Soil Health Officer)
- Jarrod Sartor (WTSIP Extension Officer)
- Leanne Carr (WTSIP Extension Officer)
- Melissa Royle (WTSIP Extension Support Officer- 2.5 days a week)
- Rod Nielson (GIS Officer)
- Megan Zamhel (Project Catalyst Support Officer)
- Minka Ibanez (Field Technician- casual)
- Shannon O'Brien (Extension agronomist- special projects)







The HCPSL Board undertook a Strategic Planning Process in early 2018 to revaluate the Herbert regions progress and lay the foundations for the future.

### Herbert Historical Productivity



Year



## 2018-20 Strategic Plan

Getting start	ed: 🗹 Planning team 💊	🖉 Create schedule 🛛 🛩 Gath	her documents	
Determine Position	Develop Strategy	Build the Plan	Manage Performance	
trategic Issues: Identify strategic ssues to address	Mission: Determine your organization's core purpose.	Use SWOT: Process the SWOT to set priorities.	Rollout: Communicate strategy to whole organization	
ndustry & Market Data: Identify narket opportunities and threats	Values: Identify your core beliefs.	Organizational Goals: Set short- to-mid-term SMART goals. (1+ yr.)	Set Calendar: Establish schedule for progress reviews	
Customer Insights: Assess Current satisfaction and future Iemand.	Vision: Create an image of what success looks like in 5 years.	KPIs: Select key performance indicators to track progress.	Leverage Tools: Train team to use MyStrategicPlan	
mployee Input: Determine trengths and weaknesses.	Competitive Advantages: Solidify your unique position	Department Goals: Cascade org goals to departments. (12 months)	Adapt Quarterly: Hold progress reviews and modify	
SWOT: Synthesize the data into summary SWOT items.	Org. Wide Strategies: Establish the approach for how you will succeed	Team Member Goals: Cascade dept. goals to individuals.	Update Annually: Review end of year, plan next year.	
	Long-Term Objectives: Develop a 3 year balanced framework of	Budget: Align a one-year budget with the plan.		

# Who was engaged in the Strategic Planning Process?

Over 150 industry stakeholders were consulted as a part of the process.

- Who are the stakeholders consulted?
  - Grass roots growers
  - Wilmar management
  - Government representatives
  - Key industry partners









The HCPSL Board has approved the company and Herbert Regional Strategy to 2020 to be rolled out through the Target 85 program.

### HCPSL Strategic Plan Summary 2018-2020

### Why we exist

#### **Our mission**

To facilitate an increase in productivity, profitability and sustainability within the Herbert sugarcane industry by providing agronomic and technical services.

### Where we want to be in the future

#### **Our vision**

To be recognized throughout the Herbert district as the primary independent resource for agronomic advice, extension and support in regard to the whole of sugarcane value chain. What's important to our industry



- Achieve an annual production of 85 tonnes cane/ha, through the activities under the Target 85 program.
- 2. Achieve a sustainable and environmentally sound sugarcane production system.

### **KEY TARGET AREAS (KTA)**

### KTA1: Clean seed and variety development

- 1. Approved (clean) seed provision
- 2. Cane variety development

#### KTA2: Agronomic and industry services

- 1. Crop agronomy advice
- 2. Cane harvest systems and advice
- 3. Crop pest and disease advice
- 4. Crop nutrition advice
- 5. Farm drainage design
- 6. Precision Agricultural Services (ie. GPS basestation network, drone imagery, soil and yield mapping)
- 7. Rotational crop management and advice
- 8. Specific soil health advice

#### KTA3: Sustainability & Environmental Stewardship

- 1. Support environmental monitoring
- specific to cane production in the Herbert
- 2. Support and/or deliver activities associated with Smartcane BMP
- 3. Development of industry Best Practice techniques relevant to the Herbert and Australian sugarcane industry
- 4. Biosecurity

#### KTA4: Industry capacity, knowledge and technology transfer, extension and adoption

Knowledge and technology transfer, extension and adoption to the Herbert in the areas of:-

- Crop agronomy
- Crop harvesting systems
- Crop pest and disease
- Crop nutrition

HCPSI

- Farming systems
- Soil health
- Irrigation advice
- Rotational crop management
- Drainage
- Supporting women in the industry
- Supporting youth in the industry
- Supporting new graduates

#### **KTA5: Strategic Alliances**

- 1. Industry groups
  - CANEGROWERS
  - ACFA
  - Wilmar
  - Other Productivity Companies
  - SRA
- 2. Government agencies
- 3. NRM groups
- 4. Co-operative Research Centres (CRC's)
- 5. Universities
- 6. Private Companies



## The HCPSL Strategic Planning Process

### **HCPSL** mission

To facilitate an increase in productivity, profitability and sustainability within the Herbert sugarcane industry by providing agronomic and technical services.





## The HCPSL Strategic Planning Process

### **HCPSL vision**

To be recognized throughout the Herbert district as the primary independent resource for agronomic advice, extension and support in regard to the whole of sugarcane value chain.





## The HCPSL Strategic Planning Process

### **Our Goals**

 Achieve an annual production of 85 tonnes cane/ha, through the activities under the Target 85 program.
 Achieve a sustainable and environmentally sound sugarcane production system.





## **TARGET 85**

# Key Target Areas (KTA) under the Target 85 program.

## Key Target Areas (KTA)

**KTA1: Clean seed and variety** development

1.Approved (clean) seed provision2.Cane variety development



**KTA2: Agronomic and industry services** 

- 1. Crop agronomy advice
- 2. Cane harvest systems and advice
- 3. Crop pest and disease advice
- 4. Crop nutrition advice
- 5. Farm drainage design
- 6. Precision Agricultural Services (ie. GPS basestation network, drone imagery, soil and yield mapping)
- 7. Rotational crop management and advice
- 8. Specific soil health advice



KTA3: Sustainability & Environmental Stewardship

 Support environmental monitoring specific to cane production in the Herbert
 Support and/or deliver activities associated with Smartcane BMP
 Development of industry Best Practice techniques relevant to the Herbert and Australian sugarcane industry
 Biosecurity





KTA4: Industry capacity, knowledge and technology transfer, extension and adoption

Knowledge and technology transfer, extension and adoption to the Herbert in the areas of:-

- Crop agronomy
- Crop harvesting systems
- Crop pest and disease
- Crop nutrition
- Farming systems
- Soil health
- Irrigation advice
- Rotational crop management
- Drainage
- Supporting women in the industry
- Supporting youth in the industry
- Supporting new graduates





### **KTA5: Strategic Alliances**

### **1.Industry groups**

- CANEGROWERS
- ACFA
- Wilmar
- Other Productivity Companies
- SRA
- WTSIP
- **2.Government agencies**
- 3.NRM groups
- 4.Co-operative Research Centres (CRC's)
- 5. Universities
- **6.Private Companies**





## Top 6 Research and Development priorities identified (in ranked order)

- 1. Soil health
- 2. Varieties
- 3. Harvesting
- 4. Rotational crops with sugarcane and value adding
- 5. Pest management
- 6. Precision agriculture





1."Right to Farm"-

Government regulations

Nutrient application (especially nitrogen)

Pesticide management

Grower uptake of Smartcane BMP program or similar programs

2.Monetary returns-

Diminishing returns for cane

Increasing input costs

Low sugar price

Crop variability

Lack of value adding opportunities

Seeking opportunities to have cash crops in rotation with sugarcane



3.Demographics/ labour issues-

Aging industry

Succession concerns (planting, growing, harvesting, milling)

Need youth engagement in industry

Lack of available planting contractors

4. Data ownership and use-

Control of data by millers (growers not happy with current situation)

Growers wanting control of farm data (from Ag. suppliers and miller)

Use of data to increase productivity and cost reductions (through PA activities) is important to growers

Simple systems that the industry can use for data collection/ acquisition and use





5. Varieties-

Suitability

Ratooning

Risk

Disease resistance (Pachymetra)

6. Soil health-

Monoculture

General understanding

Compaction

7. Nutrients-

Reef Regulations (nitrogen)

Costs

Concerns about 6ES guidelines



- 8. Harvesting-
  - Time of harvest
  - Cane quality
  - Cane and sugar losses
  - Haulout dictating terms and conditions associated with harvesting
- 9. Mill performance





## Special thanks



## On-behalf of the Board we would like to thank the following:

\* Our members for their on-going support \* Support agencies who have invested in HCPSL and the region \* The UCDCL staff

\* The HCPSL staff





# Annual General Meeting- 2018.



# The Manager's report



## **TARGET 85**



### ACHIEVEMENTS THIS YEAR



## Managing pest and diseases



### **Investment in Approved Seed provision**

- 2014- 1200 tonnes of cane purchased
   200 tissue cultured plants purchased
   110 tonnes hot water treated
- 2015- 842 tonnes of cane purchased
  3500 tissue cultured plants purchased
  93 tonnes hot water treated
- 2016- 1012 tonnes of cane purchased
   2500 tissue cultured plants purchased
   73 tonnes hot water treated
- 2017- 1169 tonnes of cane purchased 104 tonnes hot water treated
- 2018- 1183 tonnes of cane purchased 90 tonnes hot water treated



## **Investment in Approved Seed provision**

- HCPSL has purchased a new tractor, plant cutter and blower in 2018 for use in plots- funds come from company reserves.
- The HCPSL Board has approved a maintenance program for the hot water treatment tanks facilities- to commence soon.



HCPSI

### Rat management

HCPSL, Mackay Area Productivity Services (MAPS), ACTA and CANEGROWERS Brisbane worked together to achieve an aerial rat baiting permit for the Mackay and Herbert regions only, in 2017.

The permit was extended state wide in 2018, with assistance of SRA and other Productivity Services Groups.

- Rat damage has now become the largest economic pest for the Herbert cane industry.
- Over 550ha have been rat baited to date, in the Herbert, since the permit.



## Feral pig management



Hinchinbrook Community Feral Pig Management Program:

- This is a continuing program with a huge success rate.
- Existing members continue to pay into the program, with the exception of National Parks (NP).
- The Program continued to attract funding from the Nest to Ocean Program to manage feral pigs in coastal areas managed by NP and DNRM.
- Over 400 pigs were controlled during the period
- The environment, industry and the community significantly benefit from this program




### **YCS** research



- HCPSL continues to work with SRA.
- Leads are now being followed up.
- A variety x time of planting/harvesting time was harvested this year to assess genetic differences to YCS.

YCS has been a difficult syndrome to research.





## Variety development and improvement





#### Variety development and improvement

Work undertaken by HCPSL:

- Undertook variety recommendations for ~30% of the area planted through QCANE SELECT.
- Funded and established the following agronomic trials:
  - 2017- SRA5 nitrogen rate trial- Stone River
  - 2018-Variety x crop ripener trial- Abergowrie

Work undertaken with the Wilmar Plant Breeding Team:

 Provide land and maintain the Wilmar genetic collection and crossing material at the HCPSL Macknade Farm



TARGET 8



#### Variety development and improvement

Work undertaken with SRA Plant Breeding Team:

- Funded the RVT program in the Herbert, which consists of 8 trials across the Herbert to assess ratooning of varieties under difficult conditions.
- Funded the planting of the RVT YCS trial site in the Herbert and support SRA research staff.
- Supported SRA through:
  - The Introgression plant breeding effort in the Herbert, through the provision of land and glasshouses at the HCPSL Macknade- at no cost to SRA.
  - HCPSL funding of the third ratoon harvest of the SRA FAT trials across the Herbert.



TARGET 8









#### SRA funded Soil Health Project

This is a joint project between SRA research group, HCPSL, BPS, Wilmar, Universities of Queensland and Southern Queensland and QDAF.

This project will define what is soil health and develop tools and strategies to improve soil health in a sustainable and economic manner.

Dr Davey Olsen (SRA research group) leads this large industry project. Richard Hobbs (HCPSL) is the Herbert Soil Health Officer.



Sugar Research



Digging Deeper workshopswith David Hardwick

Funded by:





**Wet Tropics** Sugar Industry Partnership



# SOLS

Performance through collaboration



#### CRC partner and Grower Group

- A 10 year funded national program investing into soils and soil health.
- HCPSL and BPS are the only sugarcane partners nationally.
- Major project- "To assess the root biosphere benefits due to mixed fallow cropping". HCPSL is a major project partner in this project. Project commences late- 2018.



Improving water quality through improved land management practices



#### Extension activities: WTSIP

Employment of Jarrod Sartor (full time), Leanne Carr (full time) and Shannon O'Brien (40% of her time) as WTSIP Extension Officers and Melissa Royle (50% of her time) as Extension Support Officer.

#### Role-

- 1. Assist growers with nutrient management planning
- 2. Assist growers adopt better pesticide application and IPM programs

Innisfail Babinda Cane Productivity Services MOSSMAN AGRICULTURAL

SERVICES Ltd.

- 3. Assist growers with specific Reef water quality grants projects
- 4. Industry training and development



Wet Tropics Sugar Industry Partnership





Key partners:





#### **Project Catalyst**

Project Catalyst supported the following activities:

- Employment of Megan Zamhel- as the Project Support Officer
- Supported 16 grower driven trials
- Supported the Herbert and Tully grower update, held in Cardwell
- Supported the SPAA HCPSL PA event
- The 2018 HCPSL Herbert Walk and Talk event
- The September 2018 Soil Health Shed meetings

#### **Project Catalyst Partners**













#### **Extension activities-**Project NEMO

- Aim: To improve grower practices in relation to nitrogen use, while achieving water quality outcomes.
- 3 year project funded by the Queensland Government- Now completed.
- Adam Royle (Captain NEMO) led this project. Activities:
  - Working with growers through one on one and group processes
  - 12 demonstrations sites have been established to date
  - Rainfall simulation study
  - Water quality monitoring



#### **The Herbert Water Quality Project**



HCPSL continues to invest in water quality monitoring from cane lands. This data will assist industry make informed decisions

► The 2017-18 project partners were:









# Precision Agriculture





### Precision agriculture-HCPSL base station network



Agriculture-drone technology

**Precision** 



	DI BELLA BLOCK 0134A-1-3 0	3% Scale All Maps - 1:500 10 20 30	1 30
Ek Over Imf	Etomagnetic Condictivity and the Methodic Methods in a statistical and the statisti	Metres UAV Imagery: 16/02/17	28092017 28092017 1000 1000 1000 1000 1000 1000 1000







#### Capturing trial data- drone technology

- The HCPSL drone has been used to capture trial data.
- The drone is hired out at commercial rates to SRA and other commercial groups.



### Flood damage assessment

HCPSL worked with Queensland Government DAF staff and CANEGROWERS Herbert River to develop an accurate flood damage assessment for the March 2018 flood.





#### Precision Agriculturesoil mapping



### Soil mapping

- HCPSL purchased a Dualem 421S through a Terrain NRM grant and HCPSL funds.
  Mossman Agricultural Services (MAS) supported the HCPSL project application with Terrain NRM.
- To date individual growers, SRA, UNSW and MAS have utilized the fee for service program offered by HCPSL.
- HCPSL worked the UNSW to develop soil mapping protocols and analytics.













#### Soil mapping

- The use of the data generated by the Dualem 421S unit, conjunction with other geo-spatial data (like yield monitoring) has been used to develop variable rate soil amendment maps.
- A number of cane blocks in the Herbert have had variable rate soil amendment applications.
- ▶ Near 1000 ha have been mapped to date.















#### Precision Agriculture- Site Specific Management

- ► HCPSL undertook projects with:
  - CSIRO (SRA funded project) to develop management zones based upon HCPSL yield maps.
  - ▶ UNSW (Terrain and HCPSL funded project) to manage sodic soils south of Ingham.





Sugar Research

#### Data management and analysis

- HCPSL website and Facebook site
- Continuation of the HCPSL Yield Monitoring system
- HCPSL collects grower data and analyses it to:
  - Target its extension effort
  - Identify knowledge gaps
  - Validate industry practices
  - Support industry issues (like feral pigs and rats)
  - Defend the industry position

Supporting groups:











Developing & extending knowledgenutrition

#### Developing & extending knowledgenutrition







#### Developing & extending knowledgenutrition

Activities:

- Development of a Decision Support Tool for the Use of EEF's (funded by SRA funding unit and managed by CSIRO)
- Project NEMO- working with growers to improve NUE (funded by QLD govt.)
- The assessment of nitrogen loss pathways glasshouse experiment- project # 2 (funded by DOW Agrosciences)
- The assessment of nitrogen loss pathways of a new fertilizer product-glasshouse experiment project #3 (funded by SOS Bio)
- WTSIP Nutrient Management Planning
- SRA funded- DSIT Legume management trial
- UQ funded legume nitrogen trials
- Silica research (funded by Agripower)
- EEF60 project (funded by Australian Govt, managed by CANEGROWERS Brisbane)





#### Developing & extending knowledge-EEF60 Project

- The project was established to assess the benefits of Enhanced Efficiency Fertilisers (EEF) across the Great Barrier Reef Catchment areas.
- CANEGROWERS Brisbane lead the project, with SRA leading the research effort and HCPSL providing the extension activities for the Herbert and Tully areas.
- Shannon O'Brien (HCPSL Extension Agronomist- Special Projects, is funded 50% on this project)
- Dr. Jullian Connellan (leads the SRA research effort for the Herbert and FNQ)







Developing and extending knowledgepesticides

# Developing and extending knowledge- pesticides

Activities undertaken this year:

- Auschem training (fee for service)
- IWM training under WTSIP program
- Weed management planning under the WTSIP program
- Release of Amitron- HCPSL was contracted to undertake 3 trials as a part of the product development work (funded by Arysta)
- Conducted a glasshouse experiment to assess fungicides in high CEC soils (funded by Nufarm)
- Smut fungicide research (funded by Nufarm)
- Established a crop ripener trial in the Abergowrie area in 2018 (funded by HCPSL)





# Extending knowledge





#### Industry update and harvesting forum

Hosted by:







## HCPSL Herbert Walk and Talk









MIRIWINNI LIME Pty. Ltd.

Wet Tropics Sugar Industry Partnership



## SPAA HCPSL PA workshop

Held on the 7<sup>th</sup> of September, 2018, with the Delair demo held on the 6<sup>th</sup> of September.

Sponsored by: WTSIP, Project Catalyst, SRA, Smartcane BMP, and Wilmar



HCPSL



# Investment into youth.

- Supported the Cane Section at the Ingham Show.
- Support of the U18 Cane Section of the Ingham Show.
- School visits by staff.
- Support of a Herbert River Young Farmers Group.
- Hosted Ingham High and GSM secondary students throughout the year at various events.
- Hosted university students from Texas University.
- Hinchinbrook Chamber of Commerce and Shire Council- Future Leaders Program.





# Special thanks

# The HCPSL Board members for their support and involvement.



Vince Russo

Michael Reinaudo














## Thanks to the HCPSL teamjob well done



## Conclusion

The HCPSL aim is to continue to strive to make things better, through the services it provides for it members.

Thanks for your on-going support.













## Annual General Meeting- 2018.