

RP210 – Tailored nutrient and farm management solutions for the Herbert catchment area (Herbert RP161) Mid-Term Progress Report (Milestone #6)

Milestones	Outputs and other deliverables	Milestone Key Performance Indicators	Submission date for outputs and deliverables	OGBR review of milestone (date)
<p>Milestone 6</p> <p>Undertake a review, monitoring and evaluation of the first year's activities (Baseline B)</p> <p>Provide mid-term progress report to HCPSL Board and DES.</p> <p>Hold project team meeting with HCPSL PR210 staff, HCPSL WTSIP staff, Farmacist staff and Tanglewood Agricultural Services staff to coordinate effort, provide necessary training, develop alignment between RP210 and WTSIP activities, discuss and develop further the grower engagement strategy for Year 2 cohort.</p> <p>Delivery of communications and engagement activities and products in accordance with plan</p> <p>30 Year 1 (2020) farms</p> <p>Collect and collate grower data through the grower survey, undertake soil surveys and undertake farm inspection for Year 1 growers.</p> <p>Benchmark A and P2R recording</p> <p>Deliver crop and nutrient management plans to all growers</p>	<p>Benchmark A</p> <p>P2R data</p> <p>NMPs</p> <p>Comms and engagement activities and products</p>	<p>Baseline B collected for year 1 growers</p> <p>Strategy for recruiting Year 2 growers</p> <p>Mid-term progress report submitted and approved</p> <p>Communications and engagement activities and products produced & approved for publication</p> <p>All 30 Year 1 (2020) farms benchmarked (Benchmark A collected)</p> <p>Farm inspections conducted</p> <p>P2R data submitted</p> <p>Crop and nutrient management plans delivered to all 30 farms</p>	<p>30 April 2020</p>	<p>30 May 2020</p>

Undertake a review, monitoring and evaluation of the first year's activities (Baseline B)

Year 1 Grower Review (2019)

- Benchmarking B (Baseline B) was conducted for all 2019 Yr 1 farms
- Feedback from growers was overwhelmingly positive with good constructive feedback provided to staff, which will be used to improve project delivery in 2020
- Several growers commented on the value of the project compared to other activities, primarily BMP (please note that staff continued to encourage these growers to consider completing BMP)

NMPs

What they liked...

- Several growers referred to their NMP as their 'farm fertiliser bible'
- NMP mapping and colour coding of fertiliser recommendations was very well received and made it easy for them to manage their fertiliser applications, particularly those relying on contractors or farm workers
- Being able to keep records in the NMP was also widely appreciated by growers

What they didn't like...

- Although initially they found it interesting, some growers suggested that the extensive information regarding varieties could be more concise and compressed into just a few pages with 'broader variety information'
- Several growers suggested that the number of fertiliser products required was too impractical and would add extra expense to their fertilising activities as they could not buy in bulk
- A small number of growers took exception to the number of soil tests required under regulations, this was primarily on farms with a high number of small blocks and/or highly variable soil types
- HCPSL project staff have addressed all of this feedback and grower satisfaction overall with the NMP was evident with all but 1 grower choosing to roll over into the 2020 Yr2 project intake .

Grower/Advisor Contact

What they liked...

- Farm visits and 'tailored' advice provided during these visits
- Ease of using NMPs and being able to talk to advisors about the plans

What they didn't like...

- Generally, feedback was all positive with very little negative comments relating to advisor contact
- The few cases where feedback was less than positive related to the application of regulation and not the advisor or relationship the grower had with their advisor

Farming 4 CASH® Workshops

What they liked...

- Holding workshops outdoors (under a shady tree) was well received by growers
- Growers felt that having multiple presenters gave them the opportunity to talk to different advisors and added variety to the workshops
- Topics delivered and the interactive activities were all well received and popular with growers

- Growers also appreciated having shorter workshops, which they said wasn't overwhelming, kept them interested and gave them the opportunity to absorb the information that was provided
- The free bacon & egg breaky rolls were also a hit

What they didn't like...

- Feedback was generally positive
- Growers were particularly interested in future workshops that covered more topics (phosphorus, mill by-products etc) so they could come back and learn more through the Farming 4 CASH® 'back to basics' workshop delivery methods

Right: Shannon O'Brien presenting a nitrogen loss activity at a Farming 4 CASH® workshop



P2R & Social Indicators

- Shannon O'Brien met via teleconference with Adam Northy on the 8th April 2020 to arrange transfer of P2R data collected and collated under the Herbert RP161 project
- The data has since been provided as requested

N & P Reductions (Year 1 Project Growers)

- Total N reduction for 2019 project growers was 66.2 tonne (from 2018 to 2019)
- Total P reduction for 2019 project growers was 14.6 tonne (from 2018 to 2019)
- Area under influence was 4818ha
- N & P reduction per ha of area influenced was equal to 13.7kg/ha N and 3kg/ha P
- Refer to **Appendix – 1** for further breakdown of N & P reductions
- A complete farm x farm (de-identified) breakdown will be provided to DES

Year 2 Grower Recruitment

- HCSPL project staff contacted each 2019 project grower to discuss taking part in year 2
- During discussions, project staff explained to growers that eligibility would require them to reduce N & P inputs to below Six Easy Steps guidelines
- All growers from year 1 (2019) signed an agreement to participate in year 2 (2020)
- Subsequent to agreeing to participate for a second year, one grower asked to be released from their agreement due to personal reasons.
- After consideration the grower was released from the project and a replacement grower was identified.
- The total number of farms participating in Yr 2 (2020) is 51, down from 53 in 2019 due to an amalgamation of farm numbers for two separate growers
- Benchmarking has been completed for these growers and NMPs are currently under development

Provide mid-term progress report to HCSPL Board and DES.

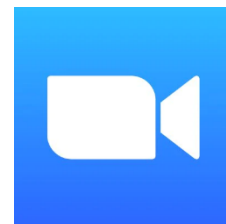
HCSPL Board

- Herbert RP161 project leader Adam Royle met with HCSPL board and manager during their board meeting on March 25th to provide a report in brief regarding the Herbert RP161 project
- The board were provided with an overview of 2019 and a progress update for 2020 via Zoom video meeting due to the COVID-19 restrictions

- The HCPSL board thanked Adam for his report and provided positive feedback regarding the project progress and outcomes
- Two new board members were elected to the HCPSL board in April and Adam also made a brief presentation to these board members on 1st May 2020.

Department of Environment and Science (DES)

- This document serves as the Herbert RP161 project's mid-term report for DES
- DES staff member Billie Gordon and RP161 project industry liaison David Defranciscis were also present at the Herbert RP161 2019 project review meeting held via Zoom video meeting on the 8th April 2020
- Minutes from this meeting are available in **Appendix - 5**



Hold project team meeting with HCPSL PR210 staff, HCPSL WTSIP staff, Farmacist staff and Tanglewood Agricultural Services staff to coordinate effort, provide necessary training, develop alignment between RP210 and WTSIP activities, discuss and develop further the grower engagement strategy for Year 2 cohort.

Tanglewood Agricultural Services



- The Herbert RP161 team met with Dr Andrew Wood from Tanglewood Agricultural Services post-workshop in December 2019 and February 2020 to review and re-evaluate the Farming 4 CASH® workshops held in both of those months
- Team met again more formally in February to review previous workshop outcomes and plan future workshops based on grower needs and feedback
- The outcomes from this meeting is that the next round of workshops will offer new topics delivered in a similar format
- The new topics will include P & fallow management (including N mineralisation & legume N and the usage of mill by-products)

Project Team Meeting

- On the 8th April 2020 Herbert RP161 staff met with DES and Farmacist staff, via Zoom video conferencing, to review 2019 and discuss planning and project improvements for 2020
- The minutes from this meeting are available in **Appendix - 5**

Above: Dr Andrew Wood presenting at a Farming 4 CASH workshop in early 2020.

Delivery of communications and engagement activities and products in accordance with plan

Grower Case Study

- 2019 project grower Daryl Larsen agreed to be the focus of a grower article to be published in the winter edition of the SRA Cane Connection magazine.
- The article focuses on how the project, and in particular the development of a whole farm NMP, has given him the ability better manage his nutrient applications
- Refer to **Appendix – 3** for the draft version of the article, which is currently under review by DES & SRA communications staff.

Annual Productivity Report

- An article was written and approved for publication in the 2020 Herbert Productivity Report
- The report is a review of the 2019 Herbert sugarcane growing region, including research and extension activities
- Refer to **Appendix – 2** to view the article

HCPSL Soils & Water Team “HCPSL Newsletter NMP Update”

- A generic HCPSL Soils & Water team NMP update was placed in the HCPSL newsletter
- The aim of the update was to provide growers with information regarding how the HCPSL Soils & Water team will be working with growers to deliver NMPs under COVID-19.
- This was not an official project article but did include staff working under the Herbert RP161 project
- Refer to **Appendix 4** to view the update

30 Year 1 (2020) farms - Collect and collate grower data through the grower survey, undertake soil surveys and undertake farm inspection for Year 1 growers.

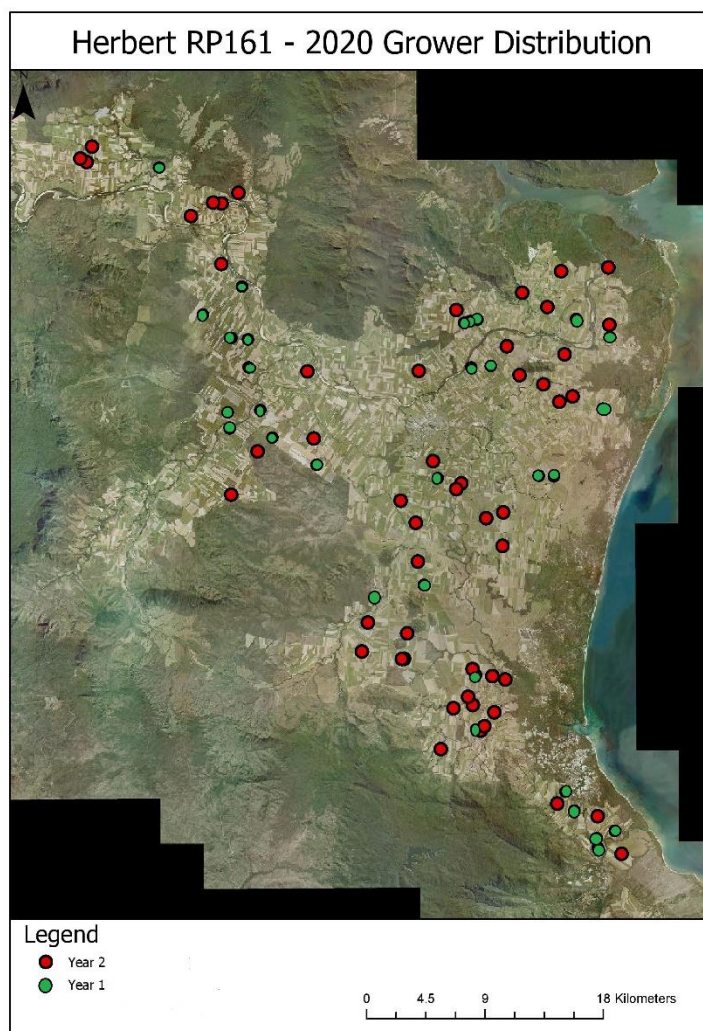
- In assist with the delivery of the 30 extra growers (Yr1 2020), HCPSL has officially added Ellie McVeigh to the Herbert RP161 team as a grower advisor
- Ellie graduated recently from the QFF graduate scheme and has committed to staying at HCPSL over the longer term
- While Ellie has taken on the bulk of the new growers, Shannon O’Brien will also be working with several year 1 (2020) growers to ensure tight deadlines are met
- Grower agreements for 31 farms have been finalised and on-farm visits and soil sampling completed

30 Year 1 (2020) farms - Benchmark A and P2R recording

- Benchmarking and P2R/social indicator questions have been completed for the 31 new farms

30 Year 1 (2020) farms - Deliver crop and nutrient management plans to all growers

- N & P budgets have been completed and an excel based nutrient plan developed for all year 1 growers
- These plans have been delivered to growers and staff will continue to review them with growers throughout the year as required.
- The new Herbert district farm maps are yet to be released to growers and HCPSL and are not expected to be finalised until mid-late May.
- To ensure the correct allocation and recording of nutrients by advisors and growers, mapping for the NMPs will proceed as soon as the new maps are available



Mid-term Learnings, Observations and General Updates

COVID-19

- On 23rd March 2020 HCPSL management directed those staff who were able to work from home to do so in order to follow COVID-19 restrictions
- Staff continued to work with growers while following social distancing requirements
- Staff have continued to network and communicate via phone, in small groups at the office and via Zoom, MS Teams and Messenger group chat
- While these arrangements initially caused disruption the Herbert RP161 team, staff remained committed to fulfilling projects deliverables and to date have succeeded in fulfilling this milestones KPIs



HCPSL Staff Upskilling

- HCPSL has recently made an investment in the future of nutrient management planning through the provision of ArcGIS Pro for all Soil & Water team members (including Herbert RP161 staff), as well as inhouse training in the use of this GIS platform
- HCPSL has since developed excel & GIS mapping templates, as well as “how to” guides to help staff work through processes

Herbert RP161 Grower Compliance Audit

- A grower who participated in the project in 2019 received a compliance audit visit by two compliance officers in February 2020.
- HCPSL project staff Adam Royle and Ellie McVeigh sat in on the audit and provided support for the grower
- Due to wet weather and accessibility issues on farm the audit was conducted at the HCPSL building in a relaxed and professional atmosphere
- Compliance officers completed the in person audit within three hours and provided a timeframe for feedback to the grower of 3-6 weeks
- The grower received a letter of non-compliance in late April (9 weeks after the visit)
- The grower contacted Adam Royle and has agreed to provide details of the letter and documents received
- The grower also expressed disappointment and frustration at the being deemed ‘non-compliant’ for what he perceived as ‘very minor’ items reported by the compliance officers
- Adam will be following up with DES staff with the view to discussing whether compliance would consider a scale of ‘non-compliance’, where minor non-compliance issues may not require further action in the immediate term



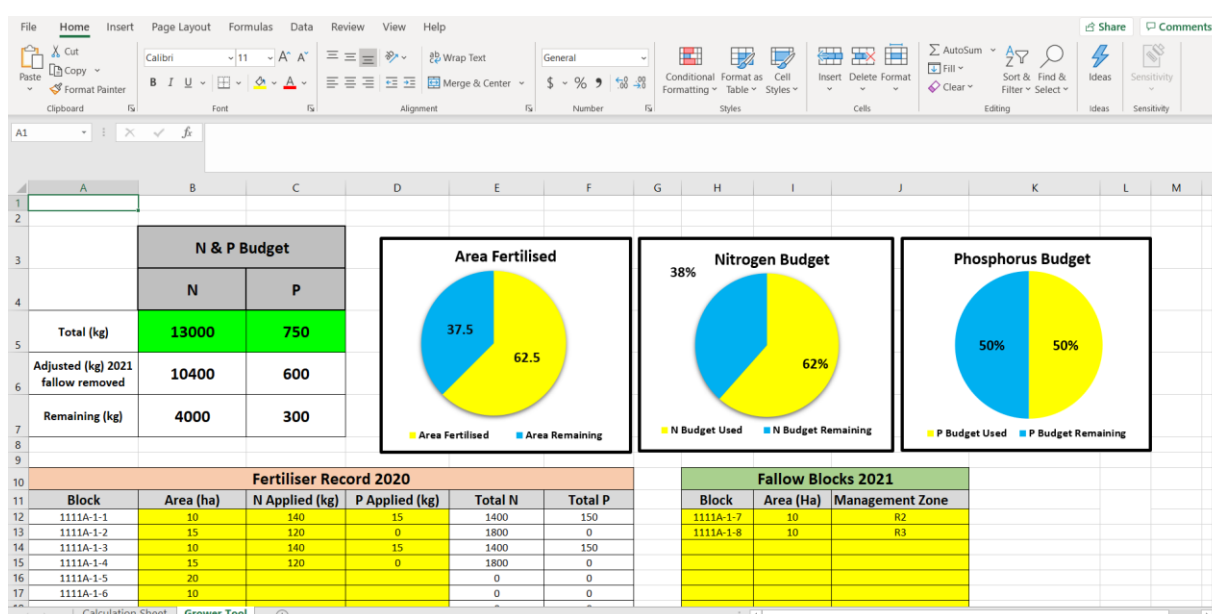
Right: Project participants Daryl and Brooke Larsen meeting with compliance officers

Nutrient Management Plans – ‘Recommended verse Actual’ Fertiliser Applications

- Despite all 2019 year 1 growers accepting their NMPs, there were some variations between what was recommended and what was actually applied on some farms
- Several reasons for this were identified when talking with growers with the primary 3 reasons listed below;
 - Timing – planting in some sub-districts starts in April and some farms were already planted prior to starting or completing a NMP
 - Third Party Error – growers purchasing fertiliser products were sometimes offered alternatives by suppliers, which they were told were ‘very similar’ to the product they requested, when in fact slight variations meant that actual applications of N & P were in some cases higher than recommended
 - Grower Error – in most cases where growers wanted to change recommended products they consulted with a member of the Herbert RP161 team before making a change. However, in a small number of cases and for a variety of reasons, growers chose to make the change themselves and chose a ‘very similar’ product that did not fit recommended N & P application rates.
- Project staff believe that there were no deliberate attempts to apply more than the recommended 6ES rates.
- Project staff are working towards eliminating, or at worst limiting these application errors by;
 - Timing – Attempting to complete NMPs prior to planting. Where this may not be possible staff will provide the grower with a preliminary ‘Fertiliser Plan’, which is a essentially a NMP without the mapping and grower records component.
 - Third Party & Grower Error – Project staff will continue to re-enforce the need for growers to talk to them before making fertiliser changes. Where possible, NMPs will also include an alternate fertiliser that meets 6ES requirements to give growers a choice should a product not be available.

Grower N & P Budget Tracker

- Following the April project team meeting, held between HCPSL, Farmacist and DES project representatives, the need for a tool to track N & P budgets throughout the season was identified.
- Subsequently, Shannon O’Brien from HCPSL developed an excel based N & P budget tracker that allows growers and advisors to track and monitor N & P applications, in relation to the N & P budget.
- Version 1 of the N & P budget tracker has been provided to Farmacist with the view to further ‘tweaking’ once growers and project partners get the opportunity to test the tracker.
- It is envisaged that an App will be the best delivery platform for an N & P tracker, but in the meantime this excel based tracker will be very useful to growers



Above: N & P Budget Tool created by Shannon O'Brien (HCPSL)

Appendix -1**Yr 1 (2019) 2018-2019 N & P Reduction**

Area of Project Influence Data		
Total hectares in project	4818.0	ha
Total area under plant cane in 2018	622.1	ha
Total area under plant cane in 2019	649.9	ha
Total area under ratoons in 2018	4195.9	ha
Total area under ratoons in 2019	4168.1	ha
Data for 2018 (Benchmark)		
Average N used plant (weighted) kg/ha	135.3	kg/ha
Average P used in plant (weighted) kg/ha	41.1	kg/ha
Average N used ratoon (weighted) kg/ha	159.3	kg/ha
Average P used ratoon (weighted) kg/ha	16.9	kg/ha
Data for 2019 (Actual - after project)		
Average N used plant (weighted) kg/ha	123.8	kg/ha
Average P used in plant (weighted) kg/ha	26.3	kg/ha
Average N used ratoon (weighted) kg/ha	145.5	kg/ha
Average P used ratoon (weighted) kg/ha	12.6	kg/ha
Average Reductions (kg/ha)		
Average N used plant (weighted) kg/ha	-11.5	kg/ha
Average P used in plant (weighted) kg/ha	-14.9	kg/ha
Average N used ratoon (weighted) kg/ha	-13.9	kg/ha
Average P used ratoon (weighted) kg/ha	-4.3	kg/ha
Using weighted average & 2019Area - Total Reduction		
Reduction of N in Plant Cane	-7504.21	kg
Reduction of N in Ratoons	-57881.82	kg
Total reduction of N	-65386.03	kg
Reduction of P in Plant Cane	-9677.49	kg
Reduction of P in Ratoons	-17801.35	kg
Total reduction of P	-27478.84	kg

Appendix - 2

2019 Annual Productivity Report – Herbert RP161 Article

EXTENSION



The Herbert River Catchment Landcare Group undertook the following activities in 2019:

- Held the Hinchinbrook NRM forum in May, with over 45 attending the event at Lucinda. The forum focused on water quality, pest and weed management and the management of marine plastics.
- A display on pest and weed management at the Ingham Show.
- Continued riparian revegetation and weed control in the Palm Creek system.
- Continued involvement in the Hinchinbrook Community Feral Pig Management Program.
- Continued support for the Herbert Water Quality Monitoring Program.
- Continued support for the eradication of declared weeds in the shire.
- Commenced a joint project with the Lucinda Progress Association to manage weeds and revegetate the Lucinda Wetlands.
- Financial support for the Herbert Water quality monitoring project.

There has been a steady increase in the number of members throughout the year in the Lower Herbert sub-group, while the Upper Herbert sub-group remains in caretaker mode.

The Herbert River Catchment Landcare Group is always seeking new members. Please do not hesitate to contact Lawrence Di Bella on 47761808, if you are interested in being involved in Landcare.

HERBERT RP161

Tailored nutrient and farm management solutions for the Herbert catchment area

HCPSL, in partnership with Farmacist, commenced delivery of tailored whole farm nutrient and crop plans to Herbert growers under the banner of Herbert RP161 in May 2019.

The Herbert RP161 project assists Herbert growers to make more informed decisions concerning nutrient and farm management practices that will lead to positive productivity, profitability and environmental outcomes.

HCPSL project extension staff engaged with 53 farms in 2019 to deliver positive outcomes including improved nutrient uptake by the crop and minimised water quality impacts through tailored nutritional plans and improved farm management practices.

This project is funded through the Queensland Government Reef Water Quality Program and the Australian Government's Reef Trust.



These outcomes have been achieved through improvements in crop nutrition, soil health, variety selection, pests and disease management, and management of soil constraints such as sodic, magnesic and saline soils.

In December 2019, Andrew Wood (Tanglewood Agricultural Services) joined HCPSL project staff to deliver a Farming 4 CASH® workshop for growers taking part in the Herbert RP161 project. The workshop focused on improving soil health to assist with better utilisation of applied nutrients by the crop.

Herbert RP161 continues in 2020 with the project taking on an extra 30 farms, taking the total to 80 participating farms.



HCPSL extension staff Shannon O'Brien demonstrates how nitrogen leaching occurs during a Farming 4 CASH® workshop



HCPSL extension staff Ellie McVeigh and Shannon O'Brien assist Herbert RP161 grower Sam Lamart to calibrate his fertiliser box

Appendix -3

Larsen Grower Case Study – SRA CaneConnection Article “Draft Version”

A One-stop Guide to Whole Farm Nutrient Management (Adam Royle, HCPSL)

Starting life as a grazing property in the heart of the Herbert sugarcane growing region, the Larsen farming enterprise moved to sugarcane when Alan Larsen planted the first billets back in 1990. Fast forward a decade, at the ripe old age of 17, Alan’s son Daryl Larsen took over the family farm after his father’s passing. Jump forward a further two decades and Daryl has not only expanded the farming enterprise but signed up to a new whole farm management project called Complete Nutrient Management Planning for Cane Farming (or “Herbert RP161”).



Farming over 450 hectares comes with a substantial investment in fertiliser and soil ameliorants so for Daryl being able to better predict, manage and keep records of these inputs is extremely important. Which is the primary reason he decided to join the Herbert RP161 project back in early 2019. Twelve months on and Daryl says his experience with doing the project has changed the way he now manages his nutrient applications.

“Soil testing has been a big part of my farming operations for a while now, but the project has brought it all together for me in a number of ways, he said. In the past I used my soil tests to work out my fertiliser for plant and younger ratoons, but once the crop got past a few ratoons all the blocks got lumped together. Having a whole of farm nutrient plan means I can now manage blocks individually if I need to. I now know what each block needs, how much it needs and when it needs it, and that’s made a big difference to the way I manage my farm. It also helped me understand which blocks I could manage in a similar way and which blocks needed to be managed differently”.

“I know a lot of the focus is on nitrogen and phosphorus, but for me it’s about supplying all of the nutrients that my crop needs to be able to better utilise the nitrogen and phosphorus that I do apply. Ameliorants and micronutrients in particular have been much easier to manage since doing a nutrient management plan. I not only know what nutrients my blocks need to grow a crop but also how much it will cost me, what return I might expect and in turn how much I’m prepared to invest for that return prioritising my investment.

Daryl recently went through a compliance audit and explained how the nutrient management plan, developed by HCPSL extension agronomists, helped him provide records for his fertiliser applications.

“Apart from knowing what I need to order and when I need to order it, the nutrient management plan allows me to record my actual applications and any variations in one location and that’s been a game changer for me. During a recent compliance audit I could provide 90% of what they were asking for in one document, it took a lot of the stress out of the process for me”.

Before leaving Daryl to get back to his farming duties we asked him what he would say to another grower who might be considering doing a nutrient management plan under the Herbert RP161 project.

“I admit I was a little sceptical at first but once I saw what it could achieve on my farm and for my farming operations I couldn’t imagine being without it. I would recommend it to any grower who wants to have an easy and effective plan to manage their fertiliser applications.

I know I have mentioned the nutrient management plan a lot, but the project is more than just that. HCPSL and their extension agronomists have always been there to chat about anything relating to my farming operations.”

If you’d like any more information about the Herbert RP161 project give HCPSL a call on 07 47761808 and talk to one of their extension agronomists.

Appendix -4

HCPSL April Newsletter – NMP Update under COVID-19

Nutrient Management Planning Update

Notice to growers working with HCPSL WTSIP, Herbert RP161 and Catalyst staff to develop nutrient management plans in 2020.

Our team of staff have been working to ensure we fulfil our commitment in providing growers with nutrient management plans during the COVID-19 outbreak.

Due to recent social distancing laws, staff will be working from home until further notice. While staff will continue to engage with growers and develop nutrient management plans, growers should be aware that it may not be possible to meet original timeframes for completing all of the nutrient management plans. The way our staff engage with growers may also be different from what has previously been accepted, once again this is primarily due to the evolving COVID-19 situation and social distancing laws.

Please be assured that HCPSL and our staff are still committed to delivering the best service possible. If a grower has any concerns or questions, please contact your extension agronomist to have a chat about how they might be able to best provide for your particular needs.

WSTIP Team

Leanne Carr – 0409077176

Jarrold Sartor – 0499034968

Project Catalyst

Megan Zahmel - 0447317102

Herbert RP161 Team

Adam Royle - 0417610446

Shannon O'Brien – 0409889383

Ellie McVeigh – 0491149245

Appendix - 5

HCPSL RP161 Project Meeting – 08/04/2020

Participants:

HCPSL: Adam Royle, Shannon O'Brien, Ellie McVeigh

Farmacist: Jayson Dowie, Heidi Hatch, Billie White

D.E.S.: Billie Gordon, David Defranciscis

Review of 2019 project outcomes (Yr1 growers)

- Growers & Benchmarking (A & B)
 - o Large proportion of Year 1 grower transition into Year 2
 - o P2R & Social indicator Q's
 - Minimal hesitation regarding growers answering social indicator question
 - Query, is there an update from Tracy regarding the social indicators for 2020?
- NMPs
 - o All NMPs delivered in 2019 season were well received
 - o HCPSL – Farmacist collaboration
 - HCPSL will be keeping majority of NMP processes in house in 2020, but still wish to retain relationship with Farmacist as a failsafe and to continue to review processes in order to achieve best outcomes for project and growers
 - Primary reasons;
 - HCPSL finalising new N&P budget / nutrient planning template, GIS mapping template and have been upskilling staff to deliver NMP's using these tools (all HCPSL Soil & Water staff)
 - Will shorten timeframes and improve efficiencies under Herbert RP161
 - Will help build capacity within HCPSL to deliver NMP in future
 - o David voiced concern that the southern end of the district may be more resistant ("difficult") to reduce fertiliser as they may have poorer yield due to environmental conditions
- Workshops
 - o 'Farming 4 CASH®'
 - o Workshops well received
 - o Roughly ~ 60-70% attendance
 - o Workshop team has reviewed post-delivery and 'tweaks' are planned for 2020
- Comms & Engagement
 - o Grower (who is also fertiliser contractor) selected for case study, will be in SRA publication
 - o Calibration has not had a huge uptake, driven by very active resellers offering that service and work done with growers by HCPSL previously (Herbert RP161 team will continue to encourage growers to use this service)
 - o Soil sampling best management practice advice biggest achievement for Herbert RP161 growers
 - o Several growers participated in EM mapping, strategic soil testing and zonal ameliorant application

Planning and progress for 2020 (Yr1 and Yr2)

- Growers & Benchmarking (A)
 - o P2R & Social Indicators
 - All Yr 1 benchmarked
- NMPs
 - o Some plans have been completed, delayed due to creation of HCPSL NMP Budget template
 - o ArcPro Licenses for all HCPSL Soil & Water staff & were trained in house

- Large proportion of time taken to develop a functional NMP budget template, but now expected to deliver greater efficiencies
- Have change variety plan section
 - CCS main concern for variety recs in Burdekin
 - Herbert main concern is disease
 - Herbert NMPs to now include SRA variety plan
- Workshops
 - 'Farming 4 CASH®'
 - 4 Workshops delivered, hopefully can deliver 2 more (different topics Feb 2020) , pending COVID19 situation
- Comms & Engagement
 - Draft milestone due end of the month but there is some flexibility
 - Will be looking at more videos to provide extension for growers
 - Shannon & Heidi to develop Google Earth Training video

Compliance

- 6-7 growers received audit letter which have been delayed 12 months due to their participation in Herbert RP161
- Never get responses from compliance
- Staff seat in of audits when asked by growers
- One Herbert RP161 grower wanted to go through with the audit to see how he would go
 - Adam and Ellie sat in on audit with 2 compliance officers
 - Issues raised by compliance
 - No proof fertiliser application date was recorded within 3 days of applying
 - Grower to write more records, NMP dating & signing fertiliser recommendation deemed "not enough" records for compliance
 - Didn't have lot plan map even though compliance had brought a Qld Globe maps of grower's farm with lot plan numbers
 - Issues raised by staff to compliance
 - Lack of awareness of new rules, i.e. Prescribed methodology for sugarcane cultivation page 15...

If the more comprehensive sampling method is used and the soil analysis shows that different rates of nitrogen and/or phosphorus are required, then these nutrients should be applied at different rates within the block, however, if it is impractical to vary nutrients within the block, then the most limiting nutrient requirements defined by the samples can be used to inform fertiliser requirements.

- Each visit compliance interprets the rules different
 - HCPSL has formulated an interpretation of the new standard conditions to ensure every staff member is on the same page
- Grower has not heard from compliance, this occurred over 9 weeks ago

N & P Budget

- Need a way for grower to track their N & P budget usage throughout season
 - Would be great to design an App to keep track of N & P application, to help growers stay within budget