

# Turf Clippings

AUTUMN 2014

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## WELCOME TO THE AUTUMN EDITION

Welcome to the autumn edition of Turf Clippings 2014. Reflecting on the summer season it seemed to be one of two halves; in the south there were continuous storms making summer almost non-existent in some areas, and in the north, the split season of a wet winter/spring and dry summer/autumn seemed to repeat itself again this year!

We've seen many international turf ryegrasses come and go, but the ryegrasses we supply are primarily bred for the attributes our customers have told us they want. These still seem to be New Zealand bred for New Zealand conditions, including true winter activity and winter wear tolerance attributes enhanced by endophyte. The environmentally sound options with endophyte help provide persistence and associated savings, such as the use of less pesticide. Avanex® endophyte technology is now firmly entrenched in the market with Jackal tall fescue (mainly for airports), but also in Colosseum ryegrass for sports field use. We are already seeing persistence advantages associated with these endophyte enhanced grasses.

In this newsletter you will be able to read about Grant Bunting's recent trip to help Steve Marsden at the Australian Open at Royal Sydney Golf Club and hear experiences of Baseline nutrition as it catches on in New Zealand. Mark Shaw gives us a very interesting account of business in the Middle East, which includes contact made with a number of ex New Zealand turf managers who now work over there. In addition, there is some great information about transitioning ryegrasses into couchgrass, which is timely with winter just around the corner, and an interesting interview with Blair Dibley on his introduction to the business via an interview from Bill Walmsley. We hope you enjoy the read.

All the best for a productive and safe season ahead.

**George Tohill**  
Sales and Marketing Manager





Royal Golf Club Bahrain

**PGG Wrightson Turf has, in recent years, started doing business in parts of the Middle East where there are a number of venues wishing to utilise the benefits of our unique germplasm.**

Mark Shaw visited Dubai, Bahrain and Qatar meeting with a number of sporting facilities and distributors.

The Middle East region has a large number of elite golf courses, football stadiums, training fields and landscape areas maintained to a very high level. Most of these turf surfaces have been established in Bermudagrass and Paspalum from vegetative propagation. A number of these facilities overseed with cool season grasses during the cooler months when play increases and televised events occur. Species used for this purpose are turf type perennial ryegrass (tees, fairways, rough and sports fields) and *Poa trivialis* (mainly for greens and approaches).

The Royal Golf Club Bahrain (RGCB) was one of PGG Wrightson Turf's first clients in this region. The RGCB first opened on 1st January, 2009. Mark Hooker was involved as the Director of Agronomy and completed the grow-in process on the island's only grass golf course. The RGCB comprises of an 18-hole Montgomerie-designed Championship course and the par 3 'Wee Monty'. They have also successfully hosted many prominent tournaments including Bahrain's first European Tour event, the Volvo Golf Champions.

The RGCB was established using Paspalum stolons and they overseed their tees, fairways and rough with PGG Wrightson Turf's Colosseum perennial ryegrass and the greens with *Poa trivialis*. The process begins in November when

the course is closed. The grass is then transitioned out around April and this is done by reducing mowing heights and opening up the canopy allowing the Paspalum to start moving.



Royal Golf Club Bahrain

Doha, in Qatar, is another interesting area where a number of New Zealanders are working. Wayne Holmes, formerly from Eden Park, is now the Sports Turf Section Head for Aspire Logistics which is the home of Khalifi Stadium. The stadium was originally opened in 1976, but was fully renovated and expanded in 2005 prior to the 2006 Asian Games in order to increase its capacity from 20,000 to 40,000.

Wayne also looks after 20 plus hectares of sports fields, including one outdoor and one indoor artificial surface. The main complex is set up as a training venue with the indoor facility providing practice areas for all Olympic sports other than canoeing! No expense is spared at this amazing venue and Wayne oversees the annual overseeding of Colosseum ryegrass into these

fields. Seeding rates of 450kg per hectare are used and this process takes place in November.



Training fields Khalifi Stadium

The Doha Golf Club is another venue where a number of New Zealanders and Australians work. David Cassidy is the Course Superintendent at the Doha Golf Club which is home to the Qatar Masters Tournament. A few years ago David employed Corey Finn, formerly from The Hills Golf Club in Queenstown, as his 2IC.



Doha Golf Club 18th Hole

Darren Shaw, also from New Zealand, looks after a number of sports field maintenance contracts and landscaping works. On site at the golf club is a large plant nursery which provides plants for their contract requirements and direct sales to end users.

In recent times Darren Shaw employed one of PGG Wrightson Turf's former staff members, Brandon Parker. Brandon is now the Sports Field Manager for the Doha Golf Club where he looks after approximately 50 football fields (60 plus hectares) in the Doha region. This is a contract that was set up years ago and the Doha Golf Club is now regarded as one of the best operators for sports turf construction and maintenance in this region.



**Brandon Parker Sports Field Manager**

The Doha Golf Club has recently purchased Colosseum ryegrass for the overseeding of the sports fields under their maintenance programmes. This process is once again conducted in the November period and seeding rates of 400-500kg per hectare are used.



**Al Sado Sports Club Doha**

The sports fields in Doha receive an extreme amount of play therefore wear is a huge issue. Many of the fields have play on them days after the overseeding process takes place, basically tearing the young ryegrass plants out and creating the need to do the whole process again!

In the Dubai region Russell Hewitt is in charge of the Arabian Ranches Golf Club which is owned by the EMMAR group.



**Russell Hewitt Arabian Ranches Polo Field**

Arabian Ranches Golf Club, located in the heart of the Arabian Ranches development, opened its doors in February, 2004. It was built as a true 18-hole, par 72, desert-style grass course; a signature course designed by Ian Baker-Finch in association with Nicklaus Design. Part of the facility that Russell looks after is the Dubai Polo & Equestrian Club. This has become the heart of equestrian activity among residents in Dubai as well as visitors to the city. The club hosts local and international polo events at two international size polo fields. The riding, show jumping and dressage arenas have sandplaster surfaces considered to be the best in the region. There are 336 stables and an international standard exercise track where the horses are kept in top form.

Arabian Ranches Golf Course is currently undergoing a massive drainage project to remove standing water from a majority of the golf course. This has been caused by the development of housing projects on surrounding land sitting higher than the golf course and runoff/drainage feeding into the low areas of the golf course. Russell is in control of this large scale project and is also using this as an opportunity to upgrade the current irrigation system.



**Drainage project Arabian Ranches Golf Club**

Recently Karl Johnson (Rugby and Seddon Parks in Hamilton) took up the position of Stadium Manager for Emirates Stadium which is the home of the Dubai Sevens. Karl looks after this facility which houses the main playing field along with a number of other playing and training grounds for not just rugby but football and cricket.

Marks last visit to Dubai coincided with the 2013 Dubai Sevens tournament which is a huge event in this region. Mark met Karl on site during the lead up to this event where the main fields had recently been overseeded with perennial ryegrass for the tournament.

Michael Clarke, another Kiwi, is the Golf Course Superintendent at Yas Links Golf Club in Abu Dhabi. Michael has worked in this region for many years and is now in charge of the first Links golf course in the Middle East region. This course was designed by Kyle Phillips, one of the world's leading golf course designers. An eighteen-hole course, a nine-hole academy course, clubhouse, golf academy and floodlit practice facilities, set against dramatic views of the Arabian Gulf.



**Yas Links Golf Course Abu Dhabi**

There are many more amazing turf facilities in this unique part of the world and the quality of the turf produced is a credit to those involved. Growing grass in a desert sounds impossible but has been achieved to an extremely high level.

The transition phase from cool season back to warm season grasses is the most stressful period for the Superintendents and Turf Managers in these regions. A go-slow approach with reducing heights and exposing the warm season grasses during the heating up period appears to be the preferred option, allowing the warm season grasses to come through and dominate. Chemical control of cool season grasses isn't required due to the extremities of the temperatures.

It is great to see so many New Zealanders working and applying their trade in the Middle East. The skills learnt here in New Zealand and the ability to adapt to different cultures has enabled them to work on some of the most spectacular turf facilities in some of the most amazing places in the world.

## SUCCESS WITH BASELINE NUTRITION

Whangarei Golf Club is a popular member's course in the heart of Whangarei. Carrying a small team of passionate greens staff, Course Superintendent Dan Quelch manages his time diligently to produce quality surfaces. After trialling many different products and programmes he decided to use the Emerald Isle true foliar programme along with the Andersons Baseline granular fertiliser. The thought behind this programme is to maintain optimum plant health which will last over the most challenging times of the year. The Baseline granular Andersons Nutri DG 18-3-18 (18-1-14) 93% MUtech™ slow release nitrogen fertiliser was applied mid-November followed three weeks later by an application of Emerald Isle True Foliar N + CPR + True Foliar K. The liquid application follows every 3-4 weeks with the benefits of being able to mix a fungicide in with the foliar application. Course superintendent Dan says "I have been running this programme for roughly two years now in some of Northlands most trying conditions. The plant health has never been better and with the addition of a Baseline fertiliser this has now reduced spraying requirements which is a major plus for us with such a small crew." The feedback from members has been great, with many favorable comments. In summary, the benefits of this programme



Course Superintendent Dan Quelch

include great plant health, no flushes of growth, less disease pressure, great natural colour that lasts and reduced spray input.

Bay of Islands Golf Club in the far north town of Kerikeri has also been successfully using the Baseline fertility programme. Colin Smith, Course Superintendent, has definitely noticed the benefits of a Baseline programme. The last few years in the north has seen many challenging seasons, with record droughts in the summer and unusually dry conditions in the winter. Colin says "the Baseline programme which I have been



Course Superintendent Colin Smith

using over the last few years has helped with the many challenges which have come our way. The plant health, the long lasting natural colour and the reduced disease pressure are all major benefits of running this programme. Also the reduced spray inputs allow us more time for more cultural practices such as verti-cutting and dusting."

If you require more information on Baseline fertility programmes please contact your local PGG Wrightson Turf representative.

## NZ FINE TURF SEMINAR 15TH-17TH JUNE 2014

The Northland Superintendents Association is hosting the 2014 seminar at the Copthorne Resort & Hotel, Waitangi. The event kicks off with a Parkland Products-sponsored golf tournament at Waitangi on the Sunday.

**Keynote speaker** will be Dr Karl Danneberger, a Turfgrass Science Professor from Ohio State University, USA. Visiting New Zealand courtesy of Jacobsen, he will be covering a number of important topics from "Growing Degree Days", "Poa Annua – Ally or Enemy?", "Innovative Strategies for Dollar Spot Control" and "The Use of Predictive Models in Golf Course Management".

### Other speakers include:

- NZSTI's Megan Cushnahan on disease.
- NZSTI's Alex Glasgow and PGG Wrightson's Bill Walmsley on the acid theory.
- Murray Beare and Darren Faire on maintaining and calibrating spray equipment whilst reducing spray drift.
- Nutritionist, Jason Shon Bennett, on eating well, getting well and staying well.
- Dr Phillip Ford from Ballarat University.
- The Metropolitan Golf Club's Superintendent, Glenn Stuart, on poa controls.



THE SEMINAR INCLUDES A FIELD TRIP TO  
THE KAURI CLIFFS GOLF COURSE AND LODGE.



Early bird registrations close on 2nd May 2014 and each one will be entered into a draw for one night's accommodation for two and golf at Kauri Cliffs Resort.

All delegate and accommodation information can be found on the New Zealand Golf Course Superintendents website [www.nzgcsa.org.nz](http://www.nzgcsa.org.nz).

## 2013 AUSTRALIAN OPEN – ROYAL SYDNEY GOLF CLUB



In late November our PGG Wrightson Turf South Island representative, Grant Bunting, experienced one of his career highlights, helping out friend and colleague Steve Marsden in hosting the 2013 Emirates Australian Open at Royal Sydney Golf Club where Rory McIlroy came from 5 shots behind to beat Adam Scott during the final round.



*Royal Sydney Golf Club Clubhouse*

Royal Sydney Golf Club (RSGC) was established in 1893 and has long been regarded as one of Australia's premier social and sporting clubs which offer superb facilities, including a 27 hole golf course (18 hole Championship course and a 9 hole course that was built to celebrate 100 years), tennis and squash courts, bowling and croquet lawns, as well as a fitness centre complete with a gymnasium and swimming pools. In addition, the clubhouse boasts accommodation, fine dining restaurants and other food and bar outlets to cater for any occasion. It's no wonder RSGC employs over 200 staff with approximately 45 of those staff looking after the Golf course and ground facilities.

**Induction** - Grant would be lying if he told you he wasn't nervous prior to the induction day! As you may be aware he has been off the 'tools of

his trade' for 20 months but the induction process put his mind at ease. Grant was given bunker duties, with only 140 of them to do and luckily Steve recruited well, by growing the original team of 40 to 62.

The induction provided all the 'newbies' a great opportunity to get to know each other and the current team as they walked the 18 hole course. There were a number of the young, and not so young, trainees who took time off work to get an event like this under their belt and be able to learn from Steve, information which will prove beneficial for them in years to come.



*Steve Marsden (Course Superintendent) and the volunteer group going through their induction of the golf course.*

**Volunteers** - 22 extra staff were required to help the existing staff and it was great to see that they travelled far and wide from Melbourne, Newcastle, Queensland, China and New Zealand for the event. There was a great mix of Sales Representatives, Foremen, Trainees, Assistant Supers and five Superintendents (Darren Moore - Shadow Creek Golf & Country Club Beijing China, Phil Beal - Australian Golf Club, Dan Cook - Glenory Golf Club, Mathew Feely - Charleston Golf Club and Nathan Reynolds - Morisset Country Club NSW)



*The Divot crew about to commence duty*

**Tournament Preparation** - The start times proved to be very interesting for people that struggle to get out of bed, with roll call commencing at 4:15am every morning followed by a team briefing by Steve Marsden and his Assistant, Cameron Stuart.

At approximately 4:30am over 60 staff would head out to start the day's preparation. Most days the large bunker crew would go out as a group and work together, this brought team harmony in what was a big job raking all 140 bunkers.

Starting so early caused lighting issues around the bunkers and made for some unhappy locals, restless about the noise of 60+ staff and machinery out on the course at 4:30am.

The morning shift would end around 9am with the exception of the 'Pro Am' day where staff had to be off the course by 7am. During the day, six permanent staff would stay on call while the rest of the team had a well-earned rest until 3pm. They would then meet with the Foremen for the afternoon debrief.

Grant's duties varied from bunkers in the morning to occasionally finishing off the odd

fairway for divoting while in the afternoon it ranged from pitch mark repair, divots and assisting in watering the greens.

With the amount of staff present it was near impossible to have vehicles for getting around the course. It was estimated that most members of the group walked 8-12km a day which accumulated to be over 70km in total, not to mention the additional kilometres walked following the golfers around the course all day.



*Bunkers at 6th-9th holes getting groomed before the day of play.*

**Greens** - The greens were G2 creeping bentgrass and they were being maintained at 2.6mm. Grant was surprised to see the amount of *Poa annua* in the greens and noticed seed head regulation was a challenge for the team due to chlorethephon (Ethrel) not being allowed to be used in NSW. Steve's management was using a combination of Paclobutrazol with trinexacpac ethyl to try to dissipate this and it did a great job.



*Perennial Poa annua in the 1st green at RSGC*

**Green Speed** - As per the norm, green speed came under scrutiny from Australian Golf with regulated control being applied, rightfully so with the pending weather forecast of 50kmph winds for much of the tournament on greens that had subtle movement. Therefore 11ft was targeted by Steve Marsden and the officials.

To achieve consistency, staff had to determine flat areas on the greens to measure the green. Once the green speed was recorded, a decision on mowing frequency, in extreme circumstances even three times, was decided with each green being measured after each mow. This is how crucial green speed has become in Australia for such high profile events like the Australian Open. It was interesting to see that the rollers only

came out once, on the Monday prior to the event.

With rollers not being allowed, and seed head becoming apparent, a decision to lightly broom the greens prior to mowing provided great results. The reason for the light brooming in one direction was to stand up the seed head which smoothed the surface out and quickened the greens, very similar to what a roller could have done but with a less dramatic outcome of increased speed.



**Bunkers** - All the green side bunkers had been recently refurbished with a bunker mat. As part of the bunker crew Grant noticed the sand was very fine around the base (as per the natural condition of the site) and had a tendency to move around the bunker in high winds. The players found the sand to be challenging but proved to be a test of good golf.



*Preparing bunkers for the days play*



*Wintergreen Couch – Fairways (11mm), Tees (8mm) and Rough (65mm)*

Each day would end between 8:30-10pm, with the time in between the shifts being filled up with sleep, catching up on NZ events and of course primarily watching some great golf.

During the week all the staff were formally thanked by Tournament Director, Trevor Herden, CEO of the Australian Golf Association, Stephen Pitt, and the General Manager of RSGC, Paul Hinton. All the staff had the opportunity to hold the Stonehaven Cup, which was first presented at the Championship in 1930 at the Metropolitan Golf Club in Melbourne.

Being involved in this event rates as a career highlight for Grant and this could not have happened without the support of PGG Wrightson Turf, Guy Thomas, Steve Marsden and his team and his family, Paula, Luke & Zoey who kindly hosted Grant over the seven days at Royal Sydney.

The friendships made and connections reinforced will be invaluable for years to come and it shows what a great industry we are all a part of.



*Grant Bunting holding the Stonehaven Cup following the legends of the game like Jack Nicklaus, Arnold Palmer, Gary Player, Greg Norman, Tom Watson, Adam Scott, and Lee Westward, just to name a few.*

# INTRODUCING OUR NEW TURF TEAM MEMBERS

Mark Shaw has recently taken up the role of Turf Group Manager, based in Christchurch, overseeing the company's turf operation and continuing in the international role building our overseas business. We have also recently employed three more logistics coordinators. These are Adam Townsing in Australia (which brings our staff in Australia to five), Muneel Kumar in Auckland assisting the logistics team (now at three) and in Christchurch, Hamish Chapman has been replaced in logistics by Joel Richards. Kate Goldsmid has replaced Sarah Cashmore in the team as our Marketing Coordinator. Phil Gould (Auckland Technical Turf representative) is now on the road full time and Blair Dibley joins the team as Turf Research Technician based at Kimihia Research Centre, in Christchurch. We congratulate and welcome all these new faces.

## KATE GOLDSMID, MARKETING COORDINATOR, CHRISTCHURCH



- **Describe yourself in three words**  
Adventurous, determined, enthusiastic.
- **Hobbies:** Photography, walking, getting lost in the hills, baking and cooking.
- **What is your favourite food?** Anything Mexican with spicy everything.
- **What do you like to do in the weekends?**  
Exercise, relax, go away on trips, shop, go for big walks in the hills and visit all my favourite people.

- **How long have you been in the turf industry and where have you worked prior to PGG Wrightson Turf?** 6 months. It's my first time in the industry, prior to working at PGG Wrightson Seeds I was teaching English in Spain.
- **Career highlight so far?** Nailing down my first degree related job at PGG Wrightson Seeds.
- **What do you enjoy about working for PGG Wrightson Turf?** The incredible people I get to work with, they are so supportive and ridiculous amounts of fun.
- **What PGG Wrightson Turf product appeals to you the most and why?** Avanex® - I had no idea bird strike even existed let alone giraffe strike!
- **What is your most memorable moment within the turf team so far?** Getting to experience 185kmph, in a Porsche, around the track at Cromwell Motorsport Park.

- **What is your funniest moment at work?**  
Sitting next to Albie, from Syngenta, at 185kmph – worth its weight in gold!
- **What is your favourite New Zealand sports venue?** Forsyth Barr – pretty incredible upgrade from Carisbrook and quite unbelievable to see the effort that goes into looking after “turf under roof”.
- **What sports have you played?** Netball, rugby, touch, volleyball, hockey and basketball.
- **What your favourite sports team that you follow?** I love following and supporting friends so I'm a fan of the ITM cup – I tend to lean toward Otago though (they need the support!)
- **Last words...** There are lots of exciting things happening this year, I look forward to a big 2014 with the turf team.

## JOEL RICHARDS, CUSTOMER SERVICE REPRESENTATIVE, CHRISTCHURCH



- **Describe yourself in three words.** Easy-going, friendly and competitive.
- **Hobbies:** Reading and lots of Xbox!
- **What is your favourite food?** I do love a good steak meal.
- **What do you like to do in the weekends?**  
Spend quality time with my partner, catch up with friends and family, eat lots of food,

- enjoy a few beverages and practise my golf game if I get the chance.
- **How long have you been in the turf industry and where have you worked prior to PGG Wrightson Turf?** I've been in Turf for about two and a half months but I have worked for PGG Wrightson Seeds since January 2013. Prior to that I worked at a company called Turners and Growers as night shift supervisor for three and a half years.
- **Career highlight so far?** Definitely has to be becoming a supervisor of 17 staff at the age of 20, which was massive learning curve!
- **What do you enjoy about working for PGG Wrightson Turf?** I think it's the team for me, they're a really great bunch of people and easy to get along with. Also the industry itself. I'm a big fan of sports and just seeing how much work goes into a sports field before a team can play on it is really cool.

- **If you were in traffic and your CD player was stuck on repeat what CD would you choose to be playing?** The latest Sons of Zion album.
- **What is your favourite New Zealand sports venue?** I enjoy the new AMI stadium in Addington, Christchurch, you're really close to the action and I played two league grand finals there when I was younger - U15 and U16 grades.
- **What sports have you played?** I've played Rugby, Rugby league, Touch, Volleyball, Cricket, and a bit of Softball when I was slimmer. More recently I've been playing netball with work mates.
- **What your favourite sports team that you follow?** Warriors fan all day!!

# INTERNATIONAL DISTRIBUTOR OF THE YEAR

PGG Wrightson Turf in New Zealand and Australia were each awarded an International Distributor of the Year award by Profile Products. This is the second year PGG Wrightson Turf has won this award for the sales of Profile Products hydro mulch and Turface soil amendment products. The award recognises both the growth and support that we have achieved with our re-vegetation customers.

Mark Stidwill (PGG Wrightson Turf Representative in Queensland, Australia) was awarded Profile's All-Pro Team 2013 Outstanding Promoter award (one of only four people internationally) and Grassmaster Environmental, a customer of Guy Thomas (PGG Wrightson Turf Representative in New South Wales, Australia), was awarded the International Contractor of the Year award.



George Tohill and Jason Weller with the awards presented by Derek Oosterhouse

## WALMSLEY'S WORD

### AN INTERVIEW WITH BLAIR DIBLEY – TURF RESEARCH TECHNICIAN



Bill Walmsley  
Turf Agronomist  
PGG Wrightson Turf

Blair Dibley has joined Bob Bradley as a turf research technician at Kimihia Research Centre.

I asked Blair about his background and how he has found the job so far.

#### **How are you enjoying your new job?**

There is great variety in the work and I get on well with Bob Bradley. I have always trialled products previously and this is an opportunity to do more of it. It is good to be at the cutting edge trialling the latest turfgrasses and other products, I'm really enjoying it.

#### **You have won a number of awards in your greenkeeping career, what are they?**

I won trainee of the year in 2001 at Royal Auckland Golf Club and subsequently at Millbrook Resort. The prize was a trip to the GCSAA conference at Atlanta. It was a mind boggling event many times larger than the Australian conference.

Last year I won the PGG Wrightson Turf Environment Award and the John Deere Excellence

Award. The project for this last award was lifting greens and surrounds to remove thatch.

#### **You have had an interesting career path into greenkeeping.**

My first career was with the Reserve Bank. One of the tasks was passing out millions of dollars of new banknotes to the banks each day. I originally obtained a BA in economic history and thought I would have a career with the Reserve Bank. It was while playing representative golf for Auckland that I took an interest in greenkeeping. I began by helping out Garth Williams at the Grange Golf Club. There was an opening for a trainee greenkeeper at Auckland Golf club and so I did my training there under Warren Mann.

#### **Leaving greenkeeping when you are at the top raised a few eyebrows. How is it for you?**

You tend to become insulated in greenkeeping, and narrowly focused. It has been refreshing to stand back and see the broader picture. You don't realise the size of the seed industry and the turf market until you step away from golf. The pressures on the golf course superintendent are relentless and they are 24 hours a day. Then there is the added pressure from members and committees.

#### **Have you worked with Bob Bradley before?**

Bob had left Millbrook before I arrived. Bob is very sharp and is a mine of information, especially about irrigation which is his speciality. I have found Keith Saulsbury very approachable and I remember Murray Kelly from a browntop symposium held a few years ago where he showed us seed production paddocks and explained the process.

#### **Which grass species have you had experience managing?**

I began with *Poa annua* greens and bermudagrass fairways at Auckland Golf Club. When I moved to Millbrook it was browntop and fine fescue, ryegrass was banned. I have not had any experience with tall fescue.

#### **How do you see the industry heading?**

I went from high inputs at Auckland Golf Club to low inputs at Millbrook Resort. I see a trend to low inputs, and away from *Poa annua*, due to financial constraints. This is a much more sustainable situation and will gain increasing traction, even up north.

## PGG Wrightson Turf Stores and staff contacts

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**South Waikato/Taranaki**  
Karen Crane  
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**Lower North Island/Wellington/Hawke's Bay**  
Matt Kidby - 027 487 4002

**Upper South Island/Christchurch**  
Jason Weller - 027 596 3974

**Otago/Southland/West Coast**  
Joe Johnson - 027 596 3565

**Christchurch/Central Otago**  
Grant Bunting - 027 704 7520

**International**  
Mark Shaw - 027 499 8327

