



BNZGA



**BOWLS**  
NEW ZEALAND  
AOTEAROA

# GREENKEEPERS DIARY

# 2024 - 2025

**MOWERS YOU CAN TRUST, NO MATTER THEIR AGE**



Location thanks to Marne Road BC

## **BABER TURF EQUIPMENT CO**



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# Greenkeepers Strategic Plan 2023-2026

## **Provide the leadership to:**

1. Work in partnership and build relationships with key stakeholders to achieve optimal effectiveness of all greenkeeping activity.
2. Deliver training and information to all affiliated clubs and their greens personnel.
3. Undertake research, audits and controls to promote safe working practices that result in the establishment and ongoing provision of high-quality greens at all clubs.

## **Our Operational Intent:**

### **Work in partnership and build relationships.**

- Work very closely and align with Bowls New Zealand and their strategies. Work with Bowls New Zealand events management team to ensure Bowls New Zealand signature events are played on the best greens available.
- Identify and build relationships with existing and new delivery partners.
- Promote the products and services of current and future key partners. (e.g., Prebbles)

### **Deliver training and information**

- Develop information sheets, websites and/ or newsletters for greenkeeping personnel as required.
- Produce an annual diary for each club's greenkeeper.
- Keep clubs informed by way of regular newsletters.
- Support greenkeepers to be the best they can be by way of training, information, and support.
- Contract NZSTI to deliver Field Days to the regions within New Zealand. Maintain a network of tutors to deliver the NZSTI training programme.
- Provide resources by investing in training packages or opportunities for greens personnel.
- Encourage regular local Greenkeeping Associations to deliver relevant meetings and other communications in their region and for BNZGA to attend where possible.

### **Undertake research. audits and controls**

- Actively promote the Health and Safety message to ensure the bowling club's premises are safe and not compromised by any sub-par greenkeeping practices as well as fully compliant with WorkSafe NZ and the Hazardous Substances Act.
- Identify issues and contract with relevant industry partners to research solutions.
- Support the development of a database of all greenkeepers in New Zealand that will enable delivery of focused training opportunities. e.g., Growsafe certification.





# President's Message

It gives me great pleasure that the NZ Greenkeepers Assn is again involved with providing a greenkeeping diary for all Greenkeepers in New Zealand. The information contained in this diary, in one place, is immense and with all the regulations required for safety and care now, not only the greenkeeper but club members and people watching, this diary is amazing for the information contained with it.

I want to acknowledge the contributions of all our sponsors and sincerely thank them for providing an advert for this diary. This helps keeps the costs of providing this essential tool down to a minimum.

Our Competency and Training Package for Bowls Greenkeeping has continued to gain momentum as this became exposed to Clubs during conferences. We are working on getting more information into the field to show Clubs and greenkeepers the information containing within each module. Greenkeepers don't have to complete each module within the overall Framework. Talk to your BNZGA Executive member in your region if you are interested in completely some or all the modules.

Thanks also to Prebble Seeds, NZSTI, and Bowls NZ for the enormous contributions all these corporates make to Greenkeeping in New Zealand.

Rob Gibson  
President BNZGA

## NORTH ISLAND GREENKEEPER CONFERENCE 2025

**Hosts: Club Mt Maunganui**

Monday 23rd and Tuesday 24th June 2025

- Chairman: TBC
- Contact No. TBC
- Email: TBC
- Registration Club Mt Maunganui Club 4pm Sunday
- Trade show on-site
- Conference Dinner Monday evening 6.30pm
- Motel & Hotel Accommodation available close by.

## SOUTH ISLAND GREENKEEPER CONFERENCE 2025

**Hosts: Central Otago Greenkeepers**

Monday 14th and Tuesday 15th July 2025

- Chairman: John Lockhead
- Contact No 0272 735 785
- Email: [greenkeeperscentral@gmail.com](mailto:greenkeeperscentral@gmail.com)
- Registration Alexander Bowls Club 4pm Sunday
- Trade Show on-site
- Conference Dinner Monday evening 6.30pm
- Motel & Hotel Accommodation close by.

for further information contact Maurice Symes [mauricesymes@xtra.co.nz](mailto:mauricesymes@xtra.co.nz) - or Mob 0274 456 953





# Important Telephone Numbers

## Emergency Numbers



**Ambulance 111**



**Fire 111**



**Police 111**

**The National Poisons and Hazardous Chemicals Information Centre**

**URGENT INFORMATION 03 474 0999**

**NON-URGENT INFORMATION 03 479 1200**

### **Robert Gibson (President)**

**Address:** PO Box 118 Mosgiel Dunedin 9053

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### **Dave Stevenson (Executive)**

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### **David Howard**

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### **NZSTI TRAINING MANAGER**

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### **SPORTS SURFACES & EQUIPMENT MANAGER**

#### **Tara McLeod**

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**CHECK OUT OUR WEBSITE**  
**BOWLSNEWZEALAND.CO.NZ**





## **PROUD SPONSOR OF BNZGA**

**Bowls New Zealand Greenkeeping Association and its membership will once again benefit significantly from the support of the Bowls New Zealand and Prebble's Turf World contract during 2024-25.**

**With the support of Bowls NZ and BNZGA the funding of 23 field days amount to \$1500.00 plus GST for each field day.**

**This comes directly from the ongoing support of bowling club customer's support of the Prebble's contract along with the following areas:**

- Technical advice
- Research Projects
- Trials for Products
  - Field days
  - Conferences
- Green Assessments
- Updating Greenkeepers Handbook
- Greenkeeper Training – 6 modules

**Prebble's team of specialists is also available to provide complimentary assistance and advice on their range of products.**

**The choice of Prebble's as your club's supplier of all your equipment, chemical, fertiliser and seed requirements directly benefit BNZGA and, therefore, all NZ clubs.**

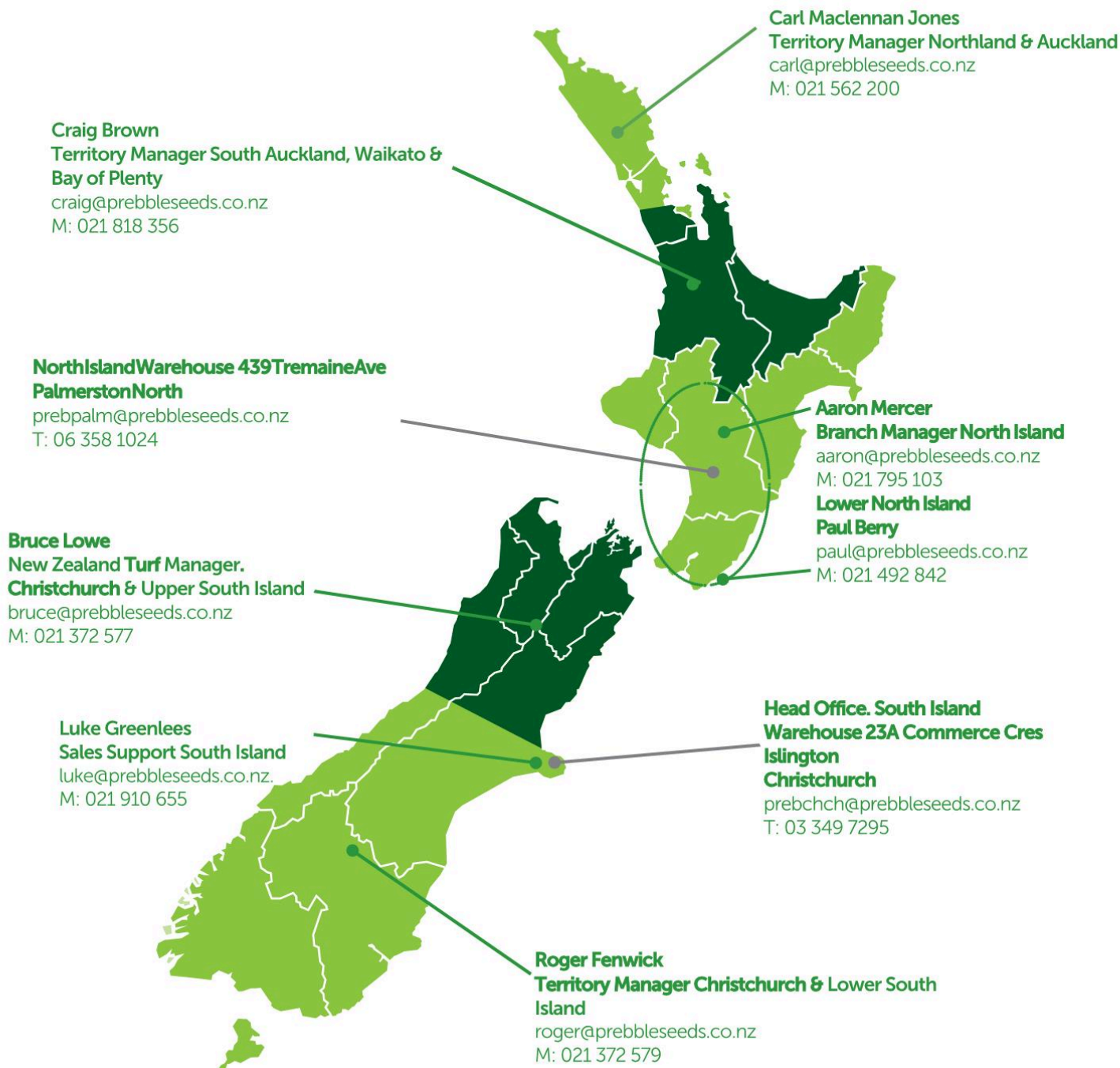
**During the past year 1st May 2023 – 30th April 2024 a total of 27 clubs have now signed up with Prebbles Turf World giving Prebbles 82.5% of all Clubs throughout NZ using them as their preferred supplier.**

**These details do not include artificial green clubs**

**The financial rewards for Greenkeeping are in the BNZGA annual report.**



# Contact Details & Locations



Free Phone 0800 28 00 28



# SECRETARY ADDRESSES FOR REGIONAL ASSOCIATIONS:

## **FAR NORTH BOWLS GREENKEEPING ASSN:**

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# My Greenkeeper



## Welcome to the *My Greenkeeper* portal

Developed by the New Zealand Sports Turf Institute, and supported by Prebbles Turf World the *My Greenkeeper* portal contains a range of training activities and resources to support Bowls New Zealand and especially the Bowls New Zealand Greenkeepers Association in developing people to maintain their natural bowling greens.



A new programme MyGreenkeeper developed specifically for Bowls Greenkeepers aims to train and assess volunteers at regional bowling clubs in the technical skills required to maintain greens ready for play.

MyGreenkeeper has been developed by the New Zealand Sports Turf Institute (NZSTI) specifically for the needs of the Bowls New Zealand Greenkeepers Association (BNZGA). For the BNZGA this is a significant and strategic investment, intended to address the diminishing pool of professional bowls greenkeepers available to clubs, whilst also providing an exciting opportunity for club volunteers.

MyGreenkeeper is part of the NZSTI's wider efforts to have comprehensive training solutions in place for each sector of our industry, and that probably hasn't been the case for the Bowling community for quite some time.

A feature of MyGreenkeeper is the modular design coupled with specialist content, unlike other sports turf programmes which must cater for a wide range of sports surfaces each module of MyGreenkeeper is dedicated to a very specific set of skills on a bowling green, the outcome for any module is obvious, they include:



- Mow and groom a bowling green
  - Irrigate a bowling green
  - Fertilise a bowling green
- Repairs on a bowling green
- Renovate a bowling green
- Prepare a bowling green for play

The training involves a variety of practical tasks performed under supervision and mentoring by the BNZGA regional trainers.

The inaugural regional trainers have all been through NZSTI's 'Train the Trainers' programme and have all the tools necessary to bring this opportunity to life.

MyGreenkeeper will equip volunteer greenkeepers with important skills to ensure the ongoing viability of many regional clubs, and especially their greens.

As well as introducing volunteers to the technical skills of Greenkeeping, MyGreenkeeper will also contribute to clubs' overall health and safety systems, wherein the past selected volunteers may have 'helped out' – there are now dedicated training steps to follow, and importantly for club administrators a formal record of each module achieved.

For the volunteers they are also recognised in their contributions to their club or regional facilities with certification for each module successfully completed.

All the training, assessment and certifications resources are housed in a the dedicated MyGreenkeeper portal which provides a centralised hub for recording all training and assessment. Access is limited to the certified regional trainers and controlled by the Bowls New Zealand Greenkeepers Association executive.

The cost for a club to have a volunteer trained is \$100.00 per module.







# NZSTI

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SPORTS TURF  
INSTITUTE



## Your turf - our experts

### *A Great Team*

We are the only full service sports surface consultancy in New Zealand, we have been entrusted with the nation's bowling greens since our inception 75 years ago!

With our regional coverage, we have a team of Agronomists available to solve any issues you may have with your natural or synthetic green.

Our services include:

- Agrichemical safety & legislation
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- Membership services
- World bowls accredited synthetic testing

For more information visit [www.nzsti.co.nz/bowls](http://www.nzsti.co.nz/bowls)





Region	Host	Dates
<b>North Island</b>		
Far North		
Northland		
Auckland		
Bay of Plenty		
Waikato		
Thames Valley		
Taranaki		
Wanganui		
Manawatu		
Gisborne / Hawke's Bay		
Wellington / Kapiti Coast		
Wairarapa		
<b>South Island</b>		
Marlborough		
Nelson		
West Coast / Buller		
Canterbury		
South Canterbury / North Otago		
Central Otago		
Dunedin / South Otago		
Southland		

## Our Experts

### North Island

Upper North Island	Central North Island	Lower North Island / Laboratory
<b>Tara McLeod</b> tmcLeod@nzsti.org.nz 027 597 2755  <b>Alex Glasgow</b> aglasgow@nzsti.org.nz 027 496 2486	<b>David Ormsby</b> dormsby@nzsti.org.nz 027 442 8053	<b>Andrew Mitchell</b> amitchell@nzsti.org.nz 027 662 0148  <b>Brendan Hannan</b> bhannan@nzsti.org.nz 027 442 8046

### South Island

Upper South Island	Lower South Island
<b>Chris Gribben</b> cgribben@nzsti.org.nz 027 552 4488	<b>David Howard</b> dhoward@nzsti.org.nz 027 446 2875







# NZSTI

NEW ZEALAND  
SPORTS TURF  
INSTITUTE

# GROWSafe

accredited trainer



# AGRICHEMICAL Training

## NEW ZEALAND LEGISLATION

Under current New Zealand legislation, all users of agrichemicals must be competent in their storage, disposal, and use.

GROWSAFE® training and Certified Handler Certification have been designed to meet these requirements.

## GROWSAFE® TRAINING AND CERTIFIED HANDLER

NZSTI are running both Basic and Standard GROWSAFE® Courses in your region, which are specific to, and contextualised for the sports turf industry.

Note: Standard GROWSAFE® Certification is a pre-requisite to applying for a Certified Handler's Certificate.

NZSTI are able to issue Certified Handler's Certificates upon application.



We have over **30 years of experience** in the complete sharpening and servicing of Scott Bonnar mowers.

- Reels are done in our **spin grinder** giving a superior grind to the blades
- **Rear Rollers** are stripped, lubricated and **rebuilt** as a bi annual service at a small extra cost
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## GREEN ISLAND MOWER CENTRE

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WITH BA**



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out more

BA Pumps & Sprayers turf spraying range has been designed in close consultation with the turf industry including greenkeepers and maintenance staff.

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# The Go-to Team Behind Your Team



**Joe Butler** - Auckland Region  
021 719 070



**Grant Bunting** - Canterbury/Wellington Region  
021 719 242



**Oliver Tong** - Technical Services Manager  
021 719 040



**Shaun Davies** - Central Nth Island  
021 959 144



**Bevan Houghton** - Auckland/Northland  
021 719 813



**Brandon Parker** - West Coast/Tasman/Central Otago  
021 958 800



**Craig Gosney** - Canterbury/Otago/Southland  
021 480 900



**Chris Heenan** - Lower Nth Island  
021 552 215

Here to help you with all the expert advice,  
scientifically-backed tools and innovative products you need  
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**LIVING TURF®**  
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— EST. 2003 —



# THE GOLDEN RULES OF AGRICHEMICAL USE



Agrichemicals are a valuable management tool that must be used safely and responsibly. To help users obtain the best results, The Golden Rules of Agrichemical Use have been developed as a guide by the New Zealand

Agrichemical Education Trust (NZAET).

**"Reproduced with Permission of the NZ Agrichemical Education Trust"**

## RULES

### ONE

#### STUDY THE AGRICHEMICAL USERS' CODE OF PRACTICE AND READ THE CONTAINER LABEL

Users should seek training in safe and responsible agrichemical use, and follow the guidelines set out in the Code of Practice developed by the NZAET. Make sure you know what you are using and never leave it to chance.



### TWO



#### KNOW WHY YOU ARE USING AGRICHEMICALS

Always consider the alternatives before using agrichemicals and know why a particular agrichemical is necessary.

### THREE

#### APPLY AGRICHEMICALS AS DIRECTED USING CALIBRATED EQUIPMENT

Accuracy in measurement and use is essential to gain the best results.



### FOUR



#### KEEP AGRICHEMICALS UNDER LOCK AND KEY

Agrichemicals should be stored in a secure, well ventilated, child and animal-proof place. Signage on cupboard and HAZCHEM 2WE on outside of building and a "No Smoking" sign.

### FIVE

#### RECORDS MUST BE KEPT

Material Safety Data Sheet (M.S.D.S.) should be supplied by your supplier for all products. Tracking records should be kept for tracked substances only.





**SIX**

**USE THE APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT FOR THE JOB**

This could include gloves, protective clothing and a mask.



**SEVEN**



**CONTROL AGRICHEMICAL USE AND HELP PROTECT THE ENVIRONMENT**

Careful and accurate application helps reduce contamination.

**EIGHT**

**DISPOSE OF SURPLUS AGRICHEMICALS AND EMPTY CONTAINERS WITH CARE**

Never leave surplus agrichemicals lying around to disintegrate or convert containers to other uses.



**NINE**



**CLEAN YOURSELF AND YOUR EQUIPMENT AFTER USING AGRICHEMICALS**

Wash your hands and face and change into clean clothing after agrichemical use. Make sure your equipment is clean too.

**TEN**

**KNOW THE SYMPTOMS OF AGRICHEMICAL POISONING AND KEEP THE EMERGENCY POISON LINE NUMBER HANDY**



**GROWSAFE ADVISORY LINE**

For further information on safe & responsible agrichemical use training opportunities and Code of Practice please contact your agronomist or contact NZSTI training Lindsay Robertson 06 355 7023

NZSTI is proposing is a Growsafe standard 1-day course + post-course assessment for \$2,500\* for training & assessment + an additional \$125\* per person (which is an external charge we have to pay ASL) \*All costs shown include GST

The breakeven point for is ten people, anything above that and you start generating a saving for either the end users, or and additional revenue opportunity for the Association or Bowls New Zealand.



YOUR NEW ZEALAND DISTRIBUTOR FOR **RAIN BIRD** GOLF AND  
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CONTACT US FOR ALL YOUR IRRIGATION REQUIREMENTS.

**Gavin MacLennan | North Island**

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[info@golfandirrigation.co.nz](mailto:info@golfandirrigation.co.nz)



**RAIN BIRD**  
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## of delivering reliable results.

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## BABECO SUPPLY CO.

- Grooving blades - 1mm, 2mm, 3mm to fit a Jacobsen, Franich, Roh or Scott Bonner
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- Bowls Mats and General Bowls Equipment



### C. BRENT BABER TURF EQUIPMENT CO.

Unit 6/10 Firth Street, Drury, Auckland

Phone: 09-294-6040 - Fax: 09-294-6044

Email: [brent.baber@xtra.co.nz](mailto:brent.baber@xtra.co.nz) - Website: [www.babeco.co.nz](http://www.babeco.co.nz)

A photograph of a bowling green with three balls (two black, one orange) on it. The background is blurred, showing spectators.

## ***Proud supporters of Bowls NZ***

PGG Wrightson Turf are suppliers of seed, fertiliser, agrichemicals and other turf products to Bowls NZ. We also provide additional services including soil testing, water testing and quoting to assist with obtaining funding grants for products and services.

***Contact us directly to discuss how we can help  
your playing surfaces become even better.***

### **CONTACT**

0800 PGW TURF (749 8873)  
**[pggwrightsonturf.com](http://pggwrightsonturf.com)**

The logo for PGG Wrightson Turf, featuring a green stylized leaf icon above the text 'PGG Wrightson Turf' in white and green.

**PGG Wrightson Turf**

*Experts from earth to turf*



**High quality soaker hoses used throughout NZ and across the world****Sumi Soaker Hoses**

High-quality soaker hoses with consistent spray coverage.

Used on bowling greens throughout New Zealand.



**Hanging Rink Numbers and Markers**  
Remove tripping hazards and make your greens safer.

Available in standard or large size, in a range of colours.



**Rink Management Markers**

Clearly define different rink locations for quick and easy rink rotation.



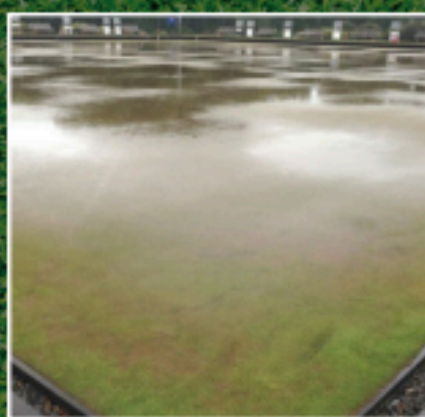
**Bowls Mats**

Non-skid, rot and mildew resistant. Soft underside minimises impact on turf.

**BowDry™  
Water  
Remover**

Quickly dry your bowling greens.

Collects up to 60L of water per minute.



**New 2024 Bowls Flyer out now!**

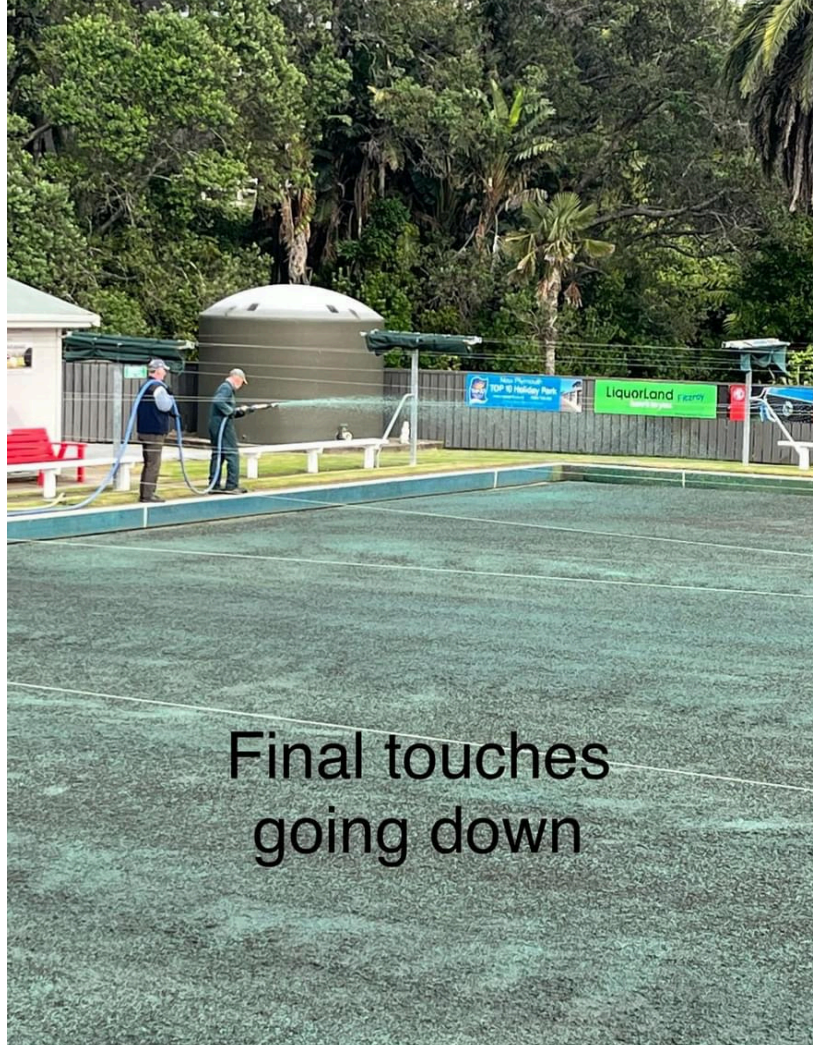
Email [info@perennial.co.nz](mailto:info@perennial.co.nz)  
for a copy to be sent to you.

**We also supply:**

Soil Samplers, Drag Mats, Levelawns, Squeegees,  
Aerators, Mower Ramps, Player Shelters, Rakes & MORE!

**(03) 3666 107**  
**[www.perennial.co.nz](http://www.perennial.co.nz)**





Final touches  
going down



Great support and help from Club Members



# ACKNOWLEDGEMENTS

Bowls New Zealand Greenkeeping Association wish to acknowledge the following for their support.

**BOWLS NEW ZEALAND  
NEW ZEALAND SPORTS INSTITUTE  
PREBBLES TURF WORLD**

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PGG WRIGHTSONS TURF  
BA PUMPS & SPRAYERS  
GOLF & IRRIGATION  
NZSTI GROWSAFE TRAINING  
BABER TURF & EQUIPMENT**

Bowls New Zealand Greenkeeping executive ask that all clubs and greenkeepers support our sponsors as without them we would not be able to give you all the support you so richly deserve.



**Dave Jones, 25 yrs Service**



**Marty Webb, Services to Greenkeeping**



**Brendan Gibson, BNZ Greenskeeper of the Year**





**Maurice Symes,  
Merit Award**



**Ron Sabin, Life Member**



**Tony Gray, 25 yrs Service**

## September Monthly Reminders -

Don't heavy roll green(s), under moist conditions this can cause severe compaction.  
Mower height should be set to early season playing height.  
Keep mowing frequency up, avoid heavy harvests of mower clippings  
Rink movement essential to avoid mat end damage  
Source next seasons topdressing soil  
Check sprayer unit. REPLACE SPRAYER NOZZLES.

**Diseases:** Check for (e.g.) Sclerotinia minor. Spray Preventative fungicide  
Irrigation: check out your system  
Nematodes: monitor for activity – treat as required.  
Harden off plant using Potassium, Potassium Carbonate or Iron.

### Starweed greens:

Treat slime early. Slime will prevent germination of seed and/or smother young plants  
Monitor greens for disease (eg: Sclerotinia sp.).  
From soil test results, apply potassic super if required

### Synthetic Greens:

- Sweep to collect leaves and debris once a week or use a leaf blower.
- Change rinks to reduce wear
- Treat weeds with herbicide – Glyphosate
- Treat moss and algae with ammonium chloride based products (check with installer).
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains
- Carpet greens – inspect seams

SEPTEMBER





# Field Day

## October's Monthly Reminders -

Keep mowing frequency up, avoid heavy harvests of mower clippings  
Continue frequent rink movement

**Diseases:** Check for (e.g.) Sclerotinia minor – Continue preventative spraying

**Pests:** Watch for insect presence or damage

**Weeds:** spray for Toad Rus. Before spraying for this problem on a  
C. Maniototo green wait for summer leaf development of the Maniototo

**Starweed green:** monitor greens for disease

### Synthetic Greens

- Sweep to collect leaves and debris once a week or use a leaf blower.
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains



# OCTOBER 2024

1 TUESDAY

2 WEDNESDAY

3 THURSDAY

# OCTOBER 2024

4 FRIDAY

5 SATURDAY

6 SUNDAY



# OCTOBER 2024

7 MONDAY

8 TUESDAY

9 WEDNESDAY

# OCTOBER 2024

10 THURSDAY

11 FRIDAY

12 SATURDAY



# OCTOBER 2024

13 SUNDAY

14 MONDAY

15 TUESDAY

# OCTOBER 2024

16 WEDNESDAY

17 THURSDAY

18 FRIDAY



# OCTOBER 2024

19 SATURDAY

20 SUNDAY

21 MONDAY

# OCTOBER 2024

22 TUESDAY

23 WEDNESDAY

24 THURSDAY



# OCTOBER 2024

25 FRIDAY

26 SATURDAY

27 SUNDAY

# OCTOBER 2024

28 MONDAY

29 TUESDAY

30 WEDNESDAY

31 THURSDAY





# Signage and Safety

Do you have the appropriate signage for your Hazardous Substances?  
Is it sufficiently detailed and in the required position on your Chemical location.



## November's Monthly Reminders -

Continue frequent rink movement

**Diseases:** Check for e.g. Brown Patch, Summer Spotting/Golden Bractlet

**Irrigation:** Irrigate as necessary so that soil remains moist at depth, core sample for moisture (e.g. 100mm depth)

Remember that over watering can cause serious problems

**Nematodes:** Monitor for activity – treat as required

**Pests:** Watch out for insect activity (e.g. Cotula Weevil)

**Starweed greens:** watch disease activity especially for Rolf's disease.

Avoid excessive soil or nitrogen top dressing during the playing season

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use leaf blower
- Change rinks to reduce wear
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains

# NOVEMBER 2024

1 FRIDAY

2 SATURDAY

3 SUNDAY



# NOVEMBER 2024

4 MONDAY

5 TUESDAY

6 WEDNESDAY

# NOVEMBER 2024

7 THURSDAY

8 FRIDAY

9 SATURDAY

# NOVEMBER 2024

10 SUNDAY

11 MONDAY

12 TUESDAY



# NOVEMBER 2024

13 WEDNESDAY

14 THURSDAY

15 FRIDAY

# NOVEMBER 2024

16 SATURDAY

17 SUNDAY

18 MONDAY

# NOVEMBER 2024

19 TUESDAY

20 WEDNESDAY

21 THURSDAY



# NOVEMBER 2024

22 FRIDAY

23 SATURDAY

24 SUNDAY

# NOVEMBER 2024

25 MONDAY

26 TUESDAY

27 WEDNESDAY

# NOVEMBER 2024

28 THURSDAY

29 FRIDAY

30 SATURDAY





**Rolling**  
**(teach them early)**

## December's Monthly Reminders -

Continue frequent rink movement

If next seasons renovation procedures includes major reconstruction, planning and/or resowing, commence planning early and seek the appropriate advice.

**Diseases:** Check for e.g. Rolf's Disease, Brown Patch, Summer Spotting/Golden Bracket

**Irrigation:** Irrigate as necessary so that soil remains moist at depth, core sample for moisture (e.g. 100mm depth)

Remember that over watering can cause serious problems Nematodes

Monitor for activity – treat as required

**Pests:** Watch out for insect activity (e.g. Cotula Weevil)

**Starweed Greens:** Watch for insect activity (e.g. insects problems are similar to cotula except for cotula weevil) and for disease e.g. Rolf's disease

Avoid excessive soil or nitrogen top dressing during the playing season

## Synthetic greens

- Sweep to collect leaves and debris once a week or use leaf blower
- Treat weeds with herbicide – Glyphosate
- Treat moss and algae with ammonium chloride based products (check with installer).
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – inspect seams
- Carpet greens – vacuum
- Carpet greens – clean stains

# DECEMBER 2024

1 SUNDAY

2 MONDAY

3 TUESDAY



# DECEMBER 2024

4 WEDNESDAY

5 THURSDAY

6 FRIDAY

# DECEMBER 2024

7 SATURDAY

8 SUNDAY

9 MONDAY

# DECEMBER 2024

10 TUESDAY

11 WEDNESDAY

12 THURSDAY



# DECEMBER 2024

13 FRIDAY

14 SATURDAY

15 SUNDAY

# DECEMBER 2024

16 MONDAY

17 TUESDAY

18 WEDNESDAY

# DECEMBER 2024

19 THURSDAY

20 FRIDAY

21 SATURDAY

# DECEMBER 2024

22 SUNDAY

23 MONDAY

24 TUESDAY



# DECEMBER 2024

25 WEDNESDAY

26 THURSDAY

27 FRIDAY

# DECEMBER 2024

28 SATURDAY

29 SUNDAY

30 MONDAY

31 TUESDAY



# Disease

## January's Monthly Reminders

Monitor greens regularly for soil moisture, for prevention of heat stress. This will be more likely to occur in thatch greens

Take soil sample for nutrients and pH analysis

Plan renovation procedures (eg grooving, coring and boring, etc)

Where appropriate survey green for levels

**Diseases:** Check for e.g. Brown Patch, Summer Spotting/Golden Bractlet

**Nematodes:** monitor for activity – treat as required

**Pests:** watch for insect activity (eg Porina and Cotula Weevil)

**Starweed Greens:** watch for insect activity (eg insects problems are similar to cotular except for cotula weevil) and for diseases (eg Rolf's disease)

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use leaf blower
- Change rinks to reduce wear
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains

JANUARY



# JANUARY 2025

1    **WEDNESDAY**

2    **THURSDAY**

*Summerset National Singles and Pairs commences*

3    **FRIDAY**

*Summerset National Singles and Pairs continues*

# JANUARY 2025

4 SATURDAY

*Summerset National Singles and Pairs continues*

5 SUNDAY

*Summerset National Singles and Pairs continues*

6 MONDAY

*Summerset National Singles and Pairs continues*

# JANUARY 2025

7 TUESDAY

*Summerset National Singles and Pairs continues*

8 WEDNESDAY

*Summerset National Singles and Pairs continues*

9 THURSDAY

*Summerset National Singles and Pairs completed*

# JANUARY 2025

10 FRIDAY

11 SATURDAY

12 SUNDAY



# JANUARY 2025

13 MONDAY

14 TUESDAY

15 WEDNESDAY

# JANUARY 2025

16 THURSDAY

17 FRIDAY

18 SATURDAY

# JANUARY 2025

19 SUNDAY

20 MONDAY

21 TUESDAY

# JANUARY 2025

22 WEDNESDAY

23 THURSDAY

24 FRIDAY



# JANUARY 2025

25 SATURDAY

26 SUNDAY

27 MONDAY

# JANUARY 2025

28 TUESDAY

29 WEDNESDAY

30 THURSDAY

31 FRIDAY



# Mowing



## February's Monthly Reminders -

Plan for and execute weed control before renovation (note: weed control on *Cotula maniototo* can affect bulbi initiation). Soil preparation for renovation should be completed

**Diseases:** Check for e.g. Rolf's Disease, Brown Patch, Summer Spotting/ Golden Bractlet

Irrigation: Monitor greens regularly for soil moisture, for the prevention of heat stress

**Nematodes:** monitor for activity – treat as required Pests: watch for insect activity (eg Porina and *Cotula* Weevil)

**Starweed Greens:** watch for insect activity (eg insects problems are similar to cotular except for cotula weevil) and for diseases (eg Rolf's disease)

Avoid excessive soil or nitrogen during the season

Monitor greens for seed set from now until June

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use leaf blower
- Change rinks to reduce wear
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – deep clean carpet by pre-soaking

FEBRUARY

# FEBRUARY 2025

1 SATURDAY

2 SUNDAY

3 MONDAY



# FEBRUARY 2025

4 TUESDAY

5 WEDNESDAY

6 THURSDAY

# FEBRUARY 2025

7 FRIDAY

8 SATURDAY

9 SUNDAY

# FEBRUARY 2025

10 MONDAY

11 TUESDAY

12 WEDNESDAY

# FEBRUARY 2025

13 THURSDAY

14 FRIDAY

15 SATURDAY

# FEBRUARY 2025

16 SUNDAY

17 MONDAY

18 TUESDAY



# FEBRUARY 2025

19 WEDNESDAY

20 THURSDAY

*Summerset National Fours commences*

21 FRIDAY

*Summerset National Fours continues*

# FEBRUARY 2025

22 SATURDAY

Summerset National Fours continues

23 SUNDAY

Summerset National Fours completed

24 MONDAY

Summerset National Mixed Pairs commences

# FEBRUARY 2025

25 TUESDAY

*Summerset National Mixed Pairs continues*

26 WEDNESDAY

*Summerset National Mixed Pairs continues*

27 THURSDAY

*Summerset National Mixed Pairs completed*

28 FRIDAY



# Training

## March Monthly Reminders -

Plan for and execute weed control before renovation (note: weed control on Cotula maniototo can affect bulbi initiation). Soil preparation for renovation should be completed

**Diseases:** Check for e.g. Rolf's Disease, Brown Patch, Summer Spotting/ Golden Bractlet

**Irrigation:** Monitor greens regularly for soil moisture, for the prevention of heat stress

**Nematodes:** monitor for activity – treat as required

**Pests:** watch for insect activity (eg Porina and Cotula Weevil)

**Starweed Greens:** watch for insect activity (eg insects problems are similar to cotular except for cotula weevil) and for diseases (eg Rolf's disease)  
Avoid excessive soil or nitrogen during the season  
Monitor greens for seed set from now until June

### **Synthetic greens:**

- Sweep to collect leaves and debris once a week or use leaf blower  
Change rinks to reduce wear
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – deep clean carpet by pre-soaking

MARCH



# MARCH 2025

1 SATURDAY

2 SUNDAY

3 MONDAY

# MARCH 2025

4 TUESDAY

5 WEDNESDAY

6 THURSDAY

# MARCH 2025

7 FRIDAY

8 SATURDAY

9 SUNDAY

# MARCH 2025

10 MONDAY

11 TUESDAY

12 WEDNESDAY

# MARCH 2025

13 THURSDAY

National Intercentre commences

14 FRIDAY

National Intercentre continues

15 SATURDAY

National Intercentre continues



# MARCH 2025

16 SUNDAY

National Intercentre completed

17 MONDAY

18 TUESDAY

# MARCH 2025

19 WEDNESDAY

20 THURSDAY

21 FRIDAY

# MARCH 2025

22 SATURDAY

23 SUNDAY

24 MONDAY

# MARCH 2025

25 TUESDAY

26 WEDNESDAY

27 THURSDAY

# MARCH 2025

28 FRIDAY

29 SATURDAY

30 SUNDAY

31 MONDAY





# Burnside Planning

## April Monthly Reminders -

Soil analysis results and interpretation should be completed  
Check and discuss results with your agronomist  
Commence nitrogen fertilizer programme

**Disease:** consider preventative spraying

**Pests:** watch for insect activity (Sod webworm, Porina)

**Weeds:** plan for and execute weed control before renovation (eg hydrocotyle) do moss control if necessary (make sure moss is moist if treating)

**Starweed greens:** treat slime early, slime will prevent germination of seed and/or smother young plants

**Monitor** greens for seed set from now until June  
From soil test, ensure that pH is at least 5.8 and apply potassic super if required

### **Synthetic greens:**

- Sweep to collect leaves and debris once a week or use leaf blower Change rinks to reduce wear
- Treat weeds with Herbicide – Glyphosate
- Treat moss and algae with ammonium chloride based products (check with installer)
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains
- Carpet greens – inspect seams

# APRIL 2025

1 TUESDAY

2 WEDNESDAY

3 THURSDAY

*National Interclub Sevens commences*

# APRIL 2025

4 FRIDAY

National Interclub Sevens continues

5 SATURDAY

National Interclub Sevens continues

6 SUNDAY

National Interclub Sevens completed

# APRIL 2025

7 MONDAY

8 TUESDAY

9 WEDNESDAY

# APRIL 2025

10 THURSDAY

11 FRIDAY

12 SATURDAY



# APRIL 2025

13 SUNDAY

14 MONDAY

15 TUESDAY

# APRIL 2025

16 WEDNESDAY

17 THURSDAY

18 FRIDAY

# APRIL 2025

19 SATURDAY

20 SUNDAY

21 MONDAY

# APRIL 2025

22 TUESDAY

23 WEDNESDAY

24 THURSDAY

# APRIL 2025

25 FRIDAY

26 SATURDAY

27 SUNDAY

# APRIL 2025

28 MONDAY

29 TUESDAY

30 WEDNESDAY





# Resurface

## May Monthly Reminders -

Continue repair of any weak areas and upgrades to ditches banks and surrounds

Where growth has been strong commence winter mowing program

Mow and same direction as groove lines

Fertiliser apply late autumn top dressings of nitrogen fertilizer

**Pest:** watch out for insect activity example Sod web worm Porina

**Weeds:** do moss control if necessary (make sure moss is moist if treating)

**Starweed greens:** treat slime early, slime will prevent germination of seed and/or smother young plants

Monitor greens for seed set

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use leaf blower
- Sand filled greens only – iron as required to increase green
- speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains
- Carpet greens – inspect seams

MAY

# MAY 2025

1 THURSDAY

2 FRIDAY

3 SATURDAY

*National Bowls3Five Finals commence*

# MAY 2025

4 SUNDAY

*National Bowls3Five Finals completed*

5 MONDAY

6 TUESDAY

# MAY 2025

7 WEDNESDAY

8 THURSDAY

9 FRIDAY

# MAY 2025

10 SATURDAY

11 SUNDAY

12 MONDAY



# MAY 2025

13 TUESDAY

14 WEDNESDAY

15 THURSDAY

# MAY 2025

16 FRIDAY

17 SATURDAY

18 SUNDAY

# MAY 2025

19 MONDAY

20 TUESDAY

21 WEDNESDAY

# MAY 2025

22 THURSDAY

23 FRIDAY

24 SATURDAY

# MAY 2025

25 SUNDAY

26 MONDAY

27 TUESDAY

# MAY 2025

28 WEDNESDAY

29 THURSDAY

30 FRIDAY

31 SATURDAY





# Centre Sprinkler



## June Monthly Reminders -

Continue repair of any weak areas and upgrades to ditches banks and surrounds

Mow as required Bulbil harvesting

**Disease:** check for occurrence of winter diseases e.g. golden Bractlet, Sclerotinia minor, winter Pythium. important to ID diseases correctly

**Weeds:** spray for grass if using Polka (kerb) use when soil temperatures are low and make sure you keep your greens very moist afterwards

**Starweed greens:** treat slime early, slime will prevent germination of seed and/or smother young plants

Monitor greens for disease (eg Sclerotinia sp) Apply magnesium (Mg) to balance POTUS ratio if necessary

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use leaf blower
- Change links to reduce wear
- Treat weeds with herbicide glyphosate
- Treat moss and algae with ammonium chloride based products (check with installer)
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains
- Carpet greens – inspect seams

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# JUNE 2025

1 SUNDAY

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7 SATURDAY

8 SUNDAY

9 MONDAY

# JUNE 2025

10 TUESDAY

11 WEDNESDAY

12 THURSDAY

# JUNE 2025

13 FRIDAY

14 SATURDAY

15 SUNDAY



# JUNE 2025

16 MONDAY

17 TUESDAY

18 WEDNESDAY

# JUNE 2025

19 THURSDAY

20 FRIDAY

21 SATURDAY

# JUNE 2025

22 SUNDAY

23 MONDAY

24 TUESDAY

# JUNE 2025

25 WEDNESDAY

26 THURSDAY

27 FRIDAY

# JUNE 2025

28 SATURDAY

29 SUNDAY

30 MONDAY



# Conference

## July Monthly Reminders -

Ensure that summer mower and renovation equipment are in sound mechanical repair. Prepare a green(s) budget for the coming year, including stocktake of all chemicals supplies etc.

Mow as required Bulbil harvesting

Continue repair of any weak areas and upgrades to ditches banks and surrounds Mow as required Bulbil harvesting

**Diseases:** check for occurrence of winter diseases

**Weeds:** spray for grass. And warmer climatic zones the use of Gallant may give better results. Regular mowing will keep unwonted board with under control (e.g. clover)

**Starweed greens:** treat slime early, slime will prevent germination of seed and/or smother young plants

Monitor greens for disease (eg Sclerotinia sp)

### Synthetic greens

- Sweep to collect leaves and debris once a week or use leaf blower
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains

JULY



# JULY 2025

1 TUESDAY

2 WEDNESDAY

3 THURSDAY

# JULY 2025

4 FRIDAY

5 SATURDAY

6 SUNDAY

# JULY 2025

7 MONDAY

8 TUESDAY

9 WEDNESDAY

# JULY 2025

10 THURSDAY

11 FRIDAY

12 SATURDAY

# JULY 2025

13 SUNDAY

14 MONDAY

15 TUESDAY

# JULY 2025

16 WEDNESDAY

17 THURSDAY

18 FRIDAY

Champ of Champs Singles commences

# JULY 2025

19 SATURDAY

*Champ of Champs Singles continues*

20 SUNDAY

*Champ of Champs Singles completed*

21 MONDAY



# JULY 2025

22 TUESDAY

23 WEDNESDAY

24 THURSDAY

# JULY 2025

**25 FRIDAY**

Champ of Champs Pairs commences

**26 SATURDAY**

Champ of Champs Pairs continues

**27 SUNDAY**

Champ of Champs Pairs completed

# JULY 2025

28 MONDAY

29 TUESDAY

30 WEDNESDAY

31 THURSDAY

# PROTRIM 760

## Fine Turf Reel Mower

Manufactured and proven in New Zealand.  
Designed for New Zealand Conditions.  
Bowling clubs, Croquet clubs, Councils, Schools, Cricket pitches.

Available in  
Petrol, Electric (mains powered electric)  
PLUS OUR BRAND NEW MODEL, the

## SILENT GREEN

World's first battery electric greens mower.  
Incorporates all of the best qualities of our existing greens mowers and much more  
A true green mower - zero pollution  
Very quiet - great for built up areas.  
No cables - On board charging - No fuel  
Dead man drive - Let go and it stops  
Soft start - no lurching or sudden take off.

Brand New  
Battery  
Model

Electric

Petrol

KAWARANGA ENGINEERING  
GROUP LTD  
**PROTRIM  
SILENT  
GREEN**

# Sponsors

## August Monthly Reminders -

Commence increasing the frequency of mowing  
Frequent mowing will help to firm green surface  
Lower mower height slowly

All established greens should now be ready for play, subject to prevailing weather conditions Source an order next seasons top dressing soil. Soil should be clean (weed and stone free) and of low organic matter. If possible visit the site of extraction.

Ensure that summer mower and renovation equipment are in sound mechanical repair. Prepare a green(s) budget for the coming year, including stocktake of all chemicals supplies etc.

**Diseases:** check for occurrence of winter and early spring diseases (e.g. golden bracelet Sclerotinia Minor) Fertiliser: Omit nitrogen usage from now on. They continue to use of nitrogen will increase the incidence of disease. Harden Cotula greens with potash applications during early spring

**Pests:** worms become a problem Weeds: moss control if necessary

**Starweed greens:** treat slime early, slime will prevent germination of seed and/or smother young plants Monitor greens for disease (eg Sclerotinia sp)

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use leaf blower
- Change rinks to reduce wear
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains

# AUGUST 2025

1 FRIDAY

Champ of Champs Triples commences

2 SATURDAY

Champ of Champs Triples continues

3 SUNDAY

Champ of Champs Triples completed

# AUGUST 2025

4 MONDAY

5 TUESDAY

6 WEDNESDAY



# AUGUST 2025

7 THURSDAY

8 FRIDAY

Champ of Champs Fours commences

9 SATURDAY

Champ of Champs Fours continues

# AUGUST 2025

10 SUNDAY

Champ of Champs Fours completed

11 MONDAY

12 TUESDAY

# AUGUST 2025

13 WEDNESDAY

14 THURSDAY

15 FRIDAY

Champ of Champs Mixed Pairs commences

# AUGUST 2025

16 SATURDAY

*Champ of Champs Mixed Pairs continues*

17 SUNDAY

*Champ of Champs Mixed Pairs completed*

18 MONDAY

# AUGUST 2025

19 TUESDAY

20 WEDNESDAY

21 THURSDAY

# AUGUST 2025

22 FRIDAY

23 SATURDAY

24 SUNDAY

# AUGUST 2025

25 MONDAY

26 TUESDAY

27 WEDNESDAY



# AUGUST 2025

28 THURSDAY

29 FRIDAY

30 SATURDAY

31 SUNDAY



# Hydroseeding

## September's Monthly Reminders -

Don't heavy roll green(s), under moist conditions this can cause severe compaction.

Mower height should be set to early season playing height. Keep mowing frequency up, avoid heavy harvests of mower clippings

Rink movement essential to avoid mat end damage

Source next seasons topdressing soil

Check sprayer unit. REPLACE SPRAYER NOZZLES.

**Diseases:** Check for (e.g.) Sclerotinia minor. Spray Preventative fungicide

**Irrigation:** check out your system

**Nematodes:** monitor for activity – treat as required.

Harden off plant using Potassium, Potassium Carbonate or Iron.

### Starweed greens:

Treat slime early. Slime will prevent germination of seed and/or smother young plants Monitor greens for disease (eg: Sclerotinia sp.).

From soil test results, apply potassic super if required

### Synthetic greens:

- Sweep to collect leaves and debris once a week or use a leaf blower.
- Change rinks to reduce wear Treat weeds with herbicide – Glyphosate
- Treat moss and algae with ammonium chloride based products (check with installer).
- Sand filled greens only – iron as required to increase green speed
- Sand filled greens only – irrigate prior to play (unless rain)
- Sand filled greens only – groom sand and check levels
- Carpet greens – vacuum
- Carpet greens – clean stains
- Carpet greens – inspect seams

# CONVERSIONS

## VOLUME

### 1 cubic centimetre (c.cm)

0.06102 cu.in = 1,000 cu.mm =  
0.000001 cu.m

### 1 cubic inch (cu.in.)

16.38716 cu.cm = 0.0005787 cu ft =  
0.004329 gal

### 1 cubic foot (cu.ft.)

0.80356 bushel = 1.728 cu.in = 0.037037 cu.yd  
= 0.028317 cu.m = 7.4805 US gal = 6.229  
British gal = 28.316L = 29.922 quart (liquid) =  
25.714 quarts (dry)

### 1 cubic foot (cu.ft.) of water

62.43lb (1 lb of water = 27.68 cu.in = 0.1198  
US gal = 0.01602 cu.ft)

### 1 cubic foot (cu.ft.) of dry soil

sandy (90 lb), loamy (100lb), clayey (75lb)

### 1 bushel (bu.) dry soil

sandy (112lb), loamy (100lb), clayey (94lb)

### 1 cubic yard (cu. yd)

27 cu.ft = 46,656 cu.in = 764.559 L = 202  
US gal = 168.17 British gal = 1,616 pints  
(liquid) = 807.9 quarts (liquid) = 21.694 bushels  
= 0.764559 cu.m

### 1 cubic metre (cu.m)

1.30794 cu.yd = 35.3144 cu.ft = 28.3776  
bushels = 264.173 gal = 1.000 cu.m = 1,056.7  
quarts (liquid) = 2,113.4 pints (liquid) = 61,023  
cu.in =  $1 \times 10^6$  cu. cm

### 1 millilitre (mL.)

1 cu.cm = 0.1dL = 0.001 L = 0.061 cu.in =  
0.0084538 gill = 0.03815 fl.oz

### 1 fluid ounce (fl.oz)

2 tablespoons = 0.125 cup = 0.0625 pint =  
0.03125 quart = 0.00781 gal = 29.573 mL =  
1.80469 cu.in = 8 fluid drams = 0.25 gill =  
0.029573 L

### 1 cup

16 tablespoons = 8 fl oz = 0.5 pint = 2 gills =  
236.6 cu cm or mL

### 1 pint (pt)

16 fl. oz = 32 tablespoons = 2 cups = 4 gills  
= 0.125 gal = 473.167 mL = 1.04 lbs of water  
= 28.875 cu in = 0.473167 L = 128 fl drams  
= 0.0167 cu ft

### 1 litre (L)

2.1134 pints = 1.0567 liquid quarts (US) =  
0.9081 dry quarts (US) = 0.264178 gal (US) =  
10 dL = 1,000 ml or cu. cm = 33.8147 fl.oz =  
270.5179 fl.drams = 61.025 cu.in = 0.0353 cu.ft  
= 0.028378 bushel = 0.001308 cu.yd

### 1 quart (qt.)

2 pints = 4 cups = 8 gills = 32 fl.oz = 57.749  
cu.in = 64 tablespoons = 0.25 gal = 0.946333L  
= 0.3342 cu.ft = 256 fluid drams

### 1 gallon (gal) US

4 quarts = 8 pints = 128 fl.oz = 0.1337 cu.ft  
= 0.83268 British gal = 3,785.4 ml or cu.cm  
= 231 cu.in = 8.337 lbs of water = 3.782 kg  
= 9810 N

## Measurement of Volume

English System to		Metric System	
Unit	Multiplied by	Equals	
Cubic Inches	x 16.4	= Cubic Centime- tres	
Cubic Feet	x 0.0283	= Cubic Inches	
Cubic Yards	x 0.765	= Cubic Metres	

Metric System to		English System	
Unit	Multiplied by	Equals	
Cubic Centimetres	x 0.06	= Cubic Inches	
Cubic Metres	x 35.3	= Cubic Feet	
Cubic Metres	x 1.31	= Cubic Yards	

## TEMPERATURE

Degrees Celsius ( $^{\circ}\text{C} \times 1.8$ ) + 32 = degrees Fahrenheit ( $^{\circ}\text{F}$ )

Degrees Fahrenheit ( $^{\circ}\text{F} - 32$ ) x 0.555 = degrees Celsius ( $^{\circ}\text{C}$ )

### Fahrenheit to Centigrade      Centigrade to Fahrenheit

Def. F to Deg. C.	Deg. C to Deg. F
-40 = -40	-40 = -40
-30 = -34.4	-30 = -22
-20 = -28.9	-20 = -4
-10 = -23.3	-10 = +14
0 = -17.8	0 = +32
+10 = -12.2	+10 = +50
+20 = -6.67	+20 = +68
+32 = 0.00	+30 = +86
+50 = +10.0	+50 = +122
+60 = +15.6	+60 = +140
+80 = +26.7	+80 = +176
+100 = +37.8	+100 = +212
+212 = +100.0	

# CONVERSIONS

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## WEIGHT

Weight is the force exerted by a mass by the acceleration due to gravity. Consider 1m cube of fresh water. It has a mass of 1,000 kg or 1 tonne. Its weight is the vertical force on its bottom surface due to gravitational acceleration, i.e.

$$\text{weight} - (1000 \text{ kg}/9.82\text{m/s}^2) = 9810 \text{ kg/m/s}^2 \text{ grain (gr.)} \\ = 9810 \text{ N}$$

### 1 grain (gr.)

$$64.7989 \text{ mg} = 0.03657 \text{ grams} = 0.0020833 \text{ oz} \\ = 0.0648 \text{ gm}$$

### 1 milligram (mg.)

$$0.001 \text{ gm} = 0.015432 \text{ grain}$$

### 1 gram (gm.)

$$1,000 \text{ m. Gm} = 0.035274 \text{ oz avoirdupois} = \\ 15.42356 \text{ grains} = 0.56438 \text{ dram avoirdupois} \\ = 0.0022046 \text{ lb} = 0.001 \text{ kg}$$

### 1 ounce avoirdupois (oz. Av.)

$$0.911458 \text{ oz} = 28.349527 \text{ gm} = 437.5 \text{ grains} = \\ 16 \text{ drams} = 0.0625 \text{ lb}$$

### 1 kilogram (kg.)

$$1,000 \text{ gm} = 35.273957 \text{ oz av.} = 2.20462 \text{ av. Lb} \\ = 15,432.35639 \text{ grains} = 0.00098421 \text{ ton (long)} \\ = 0.0011023 \text{ ton (short)}$$

### 1 ton (short)

$$2,000 \text{ av. Lb} = 2,430.56 \text{ troy lb} = 0.892857 \text{ long} \\ \text{ton} = 0.907185 \text{ metric tonne} = 907.18486 \text{ kg} \\ = 32,000 \text{ oz}$$

### 1 tonne (metric)

$$2,204 \text{ lb} = 1.1023 \text{ short tons} = 0.984 \text{ long ton} \\ = 1,000 \text{ kg}$$

## Metric Weight

$$\begin{aligned} 1 \text{ grain} &= 0.065 \text{ gram} \\ 1 \text{ apothecaries' scruple} &= 1.296 \text{ grams} \\ 1 \text{ avoirdupois ounce} &= 28.350 \text{ grams} \\ 1 \text{ troy ounce} &= 31.103 \text{ grams} \\ 1 \text{ avoirdupois pound} &= 0.454 \text{ kilogram} \\ 1 \text{ troy pound} &= 0.373 \text{ kilogram} \\ 1 \text{ gram} &= 15.432 \text{ grains} \\ 1 \text{ gram} &= 0.772 \text{ apothecaries' scruple} \\ 1 \text{ gram} &= 0.035 \text{ avoirdupois ounce} \\ 1 \text{ gram} &= 0.032 \text{ tray ounce} \\ 1 \text{ kilogram} &= 2.205 \text{ avoirdupois pounds} \\ 1 \text{ kilogram} &= 2.679 \text{ tray pounds} \end{aligned}$$

## FLOW

$$\begin{aligned} 1 \text{ cu.m/sec (1,000 L/s)} &= 35.31 \text{ cu ft/sec} \\ 1 \text{ cu.m/sec (m}^3\text{/s)} &= 15,850 \text{ gal/min} \\ 1 \text{ m}^3\text{/hr} \times 0.278 &= \text{L/s, } 1 \text{ m}^3\text{/hr} \times 16.7 \text{ L/min} \\ \text{Ls} \times 3.60 &= \text{m}^3\text{/hr, L/m} \times 0.060 = \text{m}^3\text{/hr} \\ 1 \text{ gal/min} &= 0.00006309 \text{ m}^3\text{sec} \\ 1 \text{ gal/min} &= 0.06309 \text{ l/sec} \\ 1 \text{ ft}^3\text{/sec} &= 0.02832 \text{ m}^3\text{/sec} \\ 1 \text{ ft}^3\text{/sec} &= 28.32 \text{ l/sec} \\ \text{gpm} \times 0.272 &= \text{m}^3\text{/hr} \\ \text{gpm} \times 0.0759 &= \text{L/sec} \\ \text{gpm} \times 4.55 &= \text{L/min} \\ \text{m}^3\text{/hr} \times 3.68 &= \text{gpm} \\ \text{L/sec} \times 13.2 &= \text{gpm} \\ \text{L/min} \times 0.220 &= \text{gpm} \end{aligned}$$

## PRESSURE

$$\begin{aligned} 1 \text{ pascal (Pa, = to 1 Newton/m}^2\text{)} \\ &= 0.0001450 \text{ psi} \\ 1 \text{ pascal} &= 0.004019 \text{ inch water (60|F)} \\ 1 \text{ inch water (60|F)} &= 248.8 \text{ pascals} \\ 1 \text{ psi} &= 6894.0 \text{ pascals} \\ \text{psi} \times 0.704 &= \text{m} \\ \text{psi} \times 6.89 &= \text{kPa} \\ \text{psi} \times 0.0680 &= \text{bar, psi} \times 2.31 = \text{ft} \\ \text{ft} \times 0.305 &= \text{m, ft} \times 0.433 = \text{psi} \\ \text{m} \times 1.42 &= \text{psi, m} \times 9.80 = \text{kPa} \\ \text{kPa} \times 0.145 &= \text{psi, kPa} \times 0.102 = \text{m} \\ \text{bar} \times 14.7 &= \text{psi, bar} \times 10.34 = \text{m} \\ \text{m} \times 3.28 &= \text{ft, m} \times 0.0967 = \text{bar} \end{aligned}$$

## Atmospheric Pressure

$$\begin{aligned} 1 \text{ bar} &= 100,000 \text{ Pa} = 10^5\text{P} \\ (\text{standard atmospheric pressure} - 1 \text{ atm} &= \\ &1.01325 \text{ bar}) \end{aligned}$$

## DILUTIONS

$$\begin{aligned} 1 \text{ part per million (ppm)} \\ 1 \text{ m gm/L or kg} &= 0.0001\% = 0.013 \text{ oz by} \\ \text{weight in 100 gal} &= 0.379 \text{ gm in 100 gal} = \\ 1 \text{ inch in nearly 16 miles} &= 2 \text{ crystals of sugar} \\ \text{in a pound} &= 1 \text{ oz of salt in 62,500 lb of sugar} \\ = 1 \text{ oz of sand in 31.25 tonnes of cement} &= \\ 1 \text{ oz of dye in 7,530 gal of water} &= 1 \text{ lb in 500} \\ \text{tonnes} &= 0.007 \text{ grain per lb.} \end{aligned}$$

### 1 per cent (%)

$$\begin{aligned} 10,000 \text{ ppm} &= 10 \text{ gm/L} = 1.28 \text{ oz by weight} \\ \text{per gal} &= 8.336 \text{ lb per 100 gal} \\ 0.1\% &= 1000 \text{ ppm} = 1000 \text{ m gm/L} \\ 0.01\% &= 100 \text{ ppm} = 100 \text{ m gm/L} \\ 0.001\% &= 10 \text{ ppm} = 10 \text{ gm/L} \\ 0.0001\% &= 1 \text{ ppm} = 1 \text{ m gm/L} \end{aligned}$$

# CONVERSIONS

Multiply	By	To Get	Multiply	By	To Get
Acres	43,560	Square feet	Metres	3.2181	Feet
Acres	160	Square rods	Metres	39.37	Inches
Acres	4840	Square yards	Miles	5,280	Feet
Bushels	4	Pecks	Miles	63,360	Inches
Bushels	64	Pints	Miles	320	Rods
Bushels	32	Quarts	Miles	1,760	Yards
Centimetres	0.3937	Inches	Miles per hour	88	Feet per minute
Centimetres	0.01	Metres	Miles per hour	1.467	Feet per second
Cubic Centimetres	0.03382	Ounces (liquid)	Miles per minute	60	Miles per hour
Cubic feet	1,728	Cubic Inches	Ounces (dry)	0.0625	Pounds
Cubic feet	0.03704	Cubic Yards	Ounces (liquid)	0.0625	Pints (liquid)
Cubic feet	7.4805	Gallons	Ounces (liquid)	0.03125	Quarts (liquid)
Cubic feet	29.92	Quarts (liquid)			Pounds per million
Cubic yards	27	Cubic feet	Parts per million	8.345	Gallons water
Cubic yards	48,656	Cubic Inches	Pecks	16	Pints (dry)
Cubic yards	202	Gallons	Pecks	8	Quarts (dry)
Feet	30.48	Centimetres	Pints (dry)	0.5	Quarts (dry)
Feet	12	Inches	Pints (liquid)	16	Ounces (liquid)
Feet	0.3048	Metres	Pounds	453.5924	Grams
Feet	0.060606	Rods	Pounds	16	Ounces
Feet	1/3 or 0.33333	Yards	Pounds of water	0.1198	Gallons
Gallons	0.1337	Cubic Feet	Quarts (liquid)	0.9463	Litres
Gallons	4	Quarts (liquid)	Quarts (liquid)	32	Ounces (liquid)
Gallons of water	8.0453	Pounds of water	Quarts (liquid)	2	Pints (liquid)
Grams	15.43	Grains	Rods	16.5	Feet
Grams	0.001	Kilograms	Rods	5.5	Yards
Grams	1,000	Milligrams	Square feet	144	Square inches
Grams	0.0353	Ounces	Square feet	0.1111	Square yards
Grams per litre	1,000	Parts per million	Square inches	0.00694	Square feet
Inches	2.54	Centimetres	Square miles	640	Acres
Inches	0.08333	Feet	Square miles	27,878,400	Square feet
Kilograms	1,000	Grams	Square rods	0.00625	Acres
Kilograms	2.205	Pounds	Square rods	272.25	Square feet
Kilometres	3,281	Feet	Square yards	0.0002066	Acres
Kilometres	0.6214	Miles	Square yards	9	Square feet
Litres	1,000	Cubic centmtrs	Square yards	1,296	Square inches
Litres	0.0353	Cubic feet	Ton	1016.05	Kilograms
Litres	61.02	Cubic inches	Ton	2,240	Pounds
Litres	0.2642	Gallons	Yards	3	Feet
Litres	1.057	Quarts (liquid)	Yards	36	Inches
Metres	100	Centimetres	Yards	0.9144	Metres

## CHEMICAL PURCHASES

[illegible]



# AGRICHEMICAL TRACKING RECORD (EXAMPLE)

(One sheet per agrichemical, only required for agrichemicals with a 6.1A or 6.1B HSNO classification)

Certified Handler name: J Brown		Product name: Taratek 5F	
Address of workplace: 123 Smith Street		Hazard classifications: 6.1B, 6.4A, 6.6B, 6.7B, 6.9A, 9.1A, 9.2B, 9.3C	
CH certificate number / expiry date: CH12345 (12/2/2023)		Location of product: Agrichemical cabinet inside greens shed	
Date	Activity	Quantity received/ used/ transferred	Quantity left
3/8/17	Purchased from Prebble Seeds	10L	10L
10/9/17	Applied to Green A	1.5L	8.5L
26/9/17	Applied to Green A and B	3L	5.5L
Container disposal method and date:			

# AGRICHEMICAL TRACKING RECORD

(One sheet per agrichemical, only required for agrichemicals with a 6.1A or 6.1B HSNO classification)

Certified Handler name:		Product name:	
Address of workplace:		Hazard classifications:	
CH certificate number / expiry date:		Location of product:	
Date	Activity	Quantity received/ used/ transferred	Quantity left
Container disposal method and date:			

# AGRICHEMICAL TRACKING RECORD

(One sheet per agrichemical, only required for agrichemicals with a 6.1A or 6.1B HSNO classification)

Certified Handler name:		Product name:	
Address of workplace:		Hazard classifications:	
CH certificate number / expiry date:		Location of product:	
Date	Activity	Quantity received/ used/ transferred	Quantity left
Container disposal method and date:			

## HAZARDOUS SUBSTANCES INVENTORY

Your Inventory PIN: .....

The Hazardous Substances Calculator will assign you with a pin so you can access your inventory again in future.

Name of Inventory:..... Date:...../...../.....

[illegible]

# CHEMICAL USE

## Summary of chemical use for control of weeds, moss and slime, pests and diseases.

Application date / time	Chemical used (trade name)	HSNO / HSR Number*	Rate (ml or kg/ green)	Green No.	Control achieved 0 = poor 5 = excellent	Problem

**Note:** \* **Some common weed problems:** Grasses - browntop, poa annua, Sedges - toad rush, scirpus. Broad weeds - hydrocotyle, pratia, clovers, starweed, carrot weed and pearlwort.  
\* **Other weeds:** moss & slime, tillea.  
\* **Some common pest problems:** cotula weevil, porina, sod web worm, cut worms, earth worms, black beetle, grass grub, mealy bug and nematodes.  
\* **HSNO / HSR** number only required for products with 9.1A, 9.2A, 9.3A, 9.4A

## Weather and soil conditions at spraying.

**\* Some common disease problems:** black patch, brown patch, fairy rings, gold bracelet, Phytophthora Pythium, Rolf's disease, Sclerotinia minor, summer spotting and white patch.

**Note:** When uncertain of control measure required, always check with your consultant or argonomist.

Wind direction N, NE, E, SE, S, SW, W, NW

Wind Speed 0-2 km/hr 2-5 km/hr 5-7 km/hr above 7km/hr

## FERTILISER INPUTS

[illegible]

soil pH

Date of test ...../...../2....

Green 1:

Green 2:

Green 3:

Green 4:

Green 5:

**NOTES:**



# MACHINERY MAINTENANCE

## Greens mower 1

Maintenance record									
		Sharpen & Set		Base Plate		Bearings		Other	
Date									
Mower height adjustments (mm) made during the season									
Date	Height	Date	Height	Date	Height	Date	Height	Date	Height
NOTES:									

## Greens mower 2

Maintenance record									
		Sharpen & Set		Base Plate		Bearings		Other	
Date									
Mower height adjustments (mm) made during the season									
Date	Height	Date	Height	Date	Height	Date	Height	Date	Height
NOTES:									

## Surrounds mower 1

Maintenance record									
		Sharpen & Set		Base Plate		Bearings		Other	
Date									
NOTES:									

## Grooming Roller

Maintenance record									
		Oil and Filter		Bearings		Hydrostatic oil		Belts	
Date									
NOTES:									

# BOWLS NEW ZEALAND GREENKEEPING ASSOCIATION

## Greens Inspection Form

Club..... Date Inspected.....

Green Supervisor..... Phone No. ....

GREEN No..... GREEN Name.....

Factors to be recorded	For each factor place tick in that part of the box that best describes the visual appearance or playability of the green.			
Surface Cover	Bare	Thin	Good	Very Good
Green Surface	Dioica	Maniototo	Dioica + Maniototo	
General Growth	Weak	Uneven	Lush	Very Good
Colour	Dark Green	Light Green	Brown or Bronze	
Problem Weeds Diseases and Pests	Grass Hydrocotyle Pratia Colbanthus Pearlwort Moss and Slime Other		<b>Disease</b>	Yes      No
			<b>Pests</b>	Yes      No
Groove Lines	Filled      Yes      No	Faint	Not Visible	
Mowing Height	High	Medium	Low	Cleanness of Cut Good      Poor
Surface Firmness	Very Soft	Soft	Firm	Very Hard
Draw of Bowl	Uneven or Narrow	Poor Draw off Ditch	Even Draw	Wide to Very Wide      Draw
Green Speed	14 sec or Under	15 to 16 sec	17 to 18 sec	Over 18 sec
Ditches	Narrow	Deep	Uneven	Regulation
Banks	Height to Low	Obvious Rebounding	Acceptable	Regulation
<b>Overall Green Rating Criteria: A+ to B.</b> Surface and ditches/banks all acceptable - suitable for all Centre and/or National events and as HQ greens.  <b>B- and C+</b> Surface acceptable, but ditches and banks below regulatory standard - suitable only for Centre qualifying events.  <b>C or Less</b> General green standard below standard. - Unsuitable for Centre or National events				
<b>Comments:</b>				

<b>Bowling Club:</b> .....					<b>Natural or Artificial surface</b> <i>(please circle)</i>				
<b>Green Number/Name:</b> .....					<b>Date inspected:</b> .....				
<b>Grading</b> <i>(please circle)</i>		<b>International</b>		<b>National</b>		<b>Centre</b>		<b>Club</b>	
Natural greens		>57/60 points		55-56/60 points		50-54/60 points		<49/60 points	
Artificial greens		40/40 points		35-39/40 points		30-34/40 points		<29/40 points	
<b>1.0 LEGAL REQUIREMENTS</b> <i>(Tick appropriate box [description]) under scoring. Then add up the points)</i>								<b>Total Score</b> ...../15	
Item	Testing process	Scoring		Issues to consider					
		5 points	0 points						
<b>1.1 Bank height</b>	At one location for <u>each</u> bank, use a tape measure to measure the height between the green surface and the top of the bank.	All banks are at least 230mm above the green surface.	One or more banks are less than 230mm above the green surface.	Measuring should be completed at any point where the bank is obviously low.					
<b>1.2 Ditch width</b>	At one location for <u>each</u> ditch use a tape measure to measure the distance between the green edge and bank skirt.	All ditches are between 200 and 380mm wide.	One or more ditches are <u>either</u> less or more than the acceptable range of between 200 and 380mm wide.	Measuring should be completed at any point where the ditch is obviously too narrow or wide.					
<b>1.3 Ditch depth</b>	At one location for <u>each</u> ditch use a tape measure to measure the distance between the top of the green and the base of the ditch.	All ditches are between 50 and 200mm deep.	One or more ditches are <u>either</u> less or more than the acceptable range of between 50 and 200mm deep.	Measuring should be completed at any point where the ditch is obviously too shallow or deep.					
<b>2.0 PLAYING REQUIREMENTS</b> <i>(Tick appropriate box [description]) under scoring. Then add up the points)</i>								<b>TOTAL SCORE</b> ...../25	
Item	Testing process	Scoring		Issues to consider					
		5 points	0 points						
<b>2.1 Holding ditches</b>	Providing all the ditches have the same playing surface, identify the boundaries and centre of a rink. Deliver a jack 5m from the ditch at the centre of the rink on a 45° angle and observe whether the jack remains inside the rink. Refer to the diagram in the general instructions. Repeat this procedure three times.	The jack <u>remains</u> within the rink on 2 or 3 of the test deliveries. (ie the ditch is a holding surface).	<u>Either:</u> The jack remains within the rink on one test delivery only. <u>Or:</u> The jack <u>does not</u> remain within the rink on any of the test deliveries. (ie the ditch is not a holding surface).	The weight for this test shall be equivalent to that used for delivering the jack the full length of a green. If the jack bounces out of the ditch during testing, it shall be replayed. Where the ditches <u>do not</u> have a similar surface then each ditch should be tested.					
<b>2.2 Pace of the green</b>	Deliver a bowl in both the N→S and E→W direction. Measure the time taken for the bowl to come to rest 27m from the mat line.	The speed of the green in <u>both directions</u> is between 15 and 17 sec.	In one or both directions, the green speed is either 14 seconds or less, or quicker than 18 sec.	Green speed can be measured in conjunction with determining the uniformity of draw?					
<b>2.3 Draw N→S</b>	Deliver a bowl on both hands in one rink for each direction (N→S & E→W). Determine whether there are any obvious straighteners.	The draw on <u>both hands</u> in the North → South direction is uniform.	The draw on <u>one or both hands</u> in the North → South direction is not uniform.	From the point of delivery a continuous draw as opposed to obvious straighteners is required. For the purposes of this test whether the draw is slightly different (wider or narrower) from one hand to the next is not considered important.					
<b>W→E</b>		The draw on <u>both hands</u> in the West → East direction is uniform.	The draw on <u>one or both hands</u> in the West → East direction is not uniform.						
<b>2.4 Ditch hand draw</b>	Deliver a bowl along each side of the green on the ditch hand and determine whether a uniform draw occurs.	The ditch hand draw is uniform for <u>all</u> ditches.	The ditch hand draw for <u>one or more</u> ditches is not uniform.	Does the bowl either roll into the ditch or fail to draw into the green?					

3.0 GREEN REQUIREMENTS (Tick appropriate box [description]) under scoring. Then add up the points)					TOTAL SCORE ...../20
Item	Testing process	Scoring			Issues to consider
		5 points	3 points	0 points	
<b>3.1 Evenness of cover</b>	<p>Consider whether the green has a pure or mixed turf cover.</p> <p>If the cover is mixed, is it a uniform mixture or are there distinct patches of a given type of plant?</p> <p>What size are the individual plant patches?</p>	<p><u>Either:</u> The turf cover is made up of one plant type <u>Or:</u> With mixed greens there are no individual patches greater than 300mm.</p>	<p>The green has a mixed cover with obvious patches and these patches are between 300 &amp; 500mm.</p>	<p>The green has a mixed cover with obvious patches and these patches are greater than 500mm.</p>	<p>A mixed green is either:</p> <ol style="list-style-type: none"> <li>1. Starweed mixed with dioica and/or maniototo</li> <li>2. maniototo and dioica</li> </ol> <p>Dioica greens with obvious and different patches of dioica are <u>not</u> considered as a mixed green.</p> <p>Other plant mixtures including grass are considered as weeds.</p>
<b>3.2 Bare areas</b>	<p>When walking across the green consider:</p> <ol style="list-style-type: none"> <li>1. Are there any bare areas present?</li> <li>2. How many bare areas are present?</li> <li>3. What is the size of each bare area(s)?</li> </ol>	<p>The green has a complete cover.</p> <p>No bare areas are present.</p>	<p>The green has less than ten (10) bare areas <u>and</u> each area is <u>less than</u> 150mm in diameter</p>	<p><u>Either:</u> The green has a lot (11+) of bare areas <u>Or:</u> The individual bare areas are <u>larger than</u> 150mm in diameter.</p>	<p>Bare areas include obvious bare areas and cover that has been lost due to disease or insect activity.</p>
<b>3.3 Weed content</b>	<p>When walking across the green consider:</p> <ol style="list-style-type: none"> <li>1. Are there any weeds present?</li> <li>2. How many weeds are present?</li> <li>3. What is the size of the individual weed patches (<i>Hydrocotyle</i>, grass, <i>pratia</i>)?</li> </ol>	<p><u>Either:</u> The green is completely free of weeds <u>Or:</u> There are less than 20 individual weeds and each weed does not exceed 20mm in diameter.</p>	<p>There are a few weeds present (ie 20 - 50 weed plants) and individual patches of weeds are no larger than 100mm in diameter.</p>	<p><u>Either:</u> There are a lot of weeds present (&gt;50 weeds) <u>Or:</u> Large patches (&gt;100mm diameter) of weeds are present.</p>	<p>This assessment procedure considers grass as a weed, even where it is the dominant or desired plant.</p> <p>Where Starweed is the desired plant it is not considered a weed.</p> <p><i>Colobanthus</i> is not considered as a weed.</p>
<b>3.4 Groove lines /core holes</b>	<p>When walking across the green consider:</p> <ol style="list-style-type: none"> <li>1. Are the groove/slice lines or core holes obvious?</li> <li>2. Are there any groove/ slice lines or core holes that have not been fully backfilled with soil?</li> </ol>	<p>There are no obvious groove/slice lines or core holes present on the green.</p>	<p>The groove lines/core holes are just visible, but the roll of the jack is unaffected or the green surface feels smooth.</p>	<p>The groove lines or core holes on part of the green are very obvious or have not been completely filled with soil.</p>	<p>If the groove/slice lines or holes can be seen, <u>Either</u> :</p> <ol style="list-style-type: none"> <li>1. Run your hand over them to see if the surface is smooth</li> </ol> <p><u>Or:</u></p> <ol style="list-style-type: none"> <li>2. Roll a jack over them and see if this bobbles.</li> </ol>
OTHER OBSERVATIONS (please add any relevant comments)					

## SUMMARY OF IRRIGATION USE

[illegible]

## SUMMARY OF DAILY RAINFALL

[illegible]







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