



B N Z G A

GREENKEEPERS DIARY 2023 - 2024



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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.





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 keep the costs of providing this essential tool down to a minimum.

Our Competency and Training Package for Bowls Greenkeeping is slowly gaining momentum as this becomes exposed to Clubs during conferences. We are working on getting more information into the field to show Clubs and greenkeepers the information contained 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 completing some or all of the modules.

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

Support each other, help each other and happy greenkeeping.

Rob Gibson
President BNZGA

SOUTH ISLAND GREENKEEPER CONFERENCE 2024

South Island Conference: Greymouth,
Monday 15th and Tuesday 16th July 2024 – Greymouth
Contact details:

- Mr Stuart Oliver
- Phone (03) 768 5531
- Email bwcgreenkeepers@gmail.com
- Address: 3 Fox Street Cobden Greymouth 7802

NORTH ISLAND GREENKEEPER CONFERENCE 2024 - Venue Kamo Club

North Island Conference: Hosts: Northland
Monday 26th and Tuesday 27th June 2024

- Chairman: Marty Webb
 - Contact Mob 021 137 7322
 - Email mwebb007@gmail.com
 - Registration Kamo Bowling Club - Trade show on-site
 - Conference Dinner Monday evening 6.30pm
 - Motel & Hotel Accommodation at Kensington close
-



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 2023-24.

With the support of Bowls NZ and BNZGA the funding of 20 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
- Field days
- Conferences
- Green Assessments
- Field Days
- Greenkeeper Training – 7 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 benefits BNZGA and, therefore, all NZ clubs.

During the past year 1st May 2022 – 30th April 2023 23 new clubs signed up with Prebbles Turf World giving Prebbles 78.5% 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.



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

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Address: 6B Kilsyth Street Karori Wellington 6012

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Email: libby@mfsventures.co.nz

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Tauranga 3116

Email: steve@bowlsnewzealand.co.nz

NZSTI DELEGATE TO BNZGA

David Howard

Ph 03 477 7333 Mob 027 446 2875

Address: PO Box 6289 Dunedin North Dunedin 9059

Email: dhoward@nzsti.org.nz

NZSTI TRAINING MANAGER

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Ph (06) 355 7023 Mob 027 253 6777

Address: PO Box 347 Palmerston North 4440

Email: lrobertson@nzstито.org.nz

Tara McLeod

Mob 027 597 2755

Address: Building 1/Unit C, Level 4

4 Pavilion Drive Mangere Auckland 2022

Email: tmcleod@nzsti.org.nz

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My Greenkeeper



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.

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.

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.

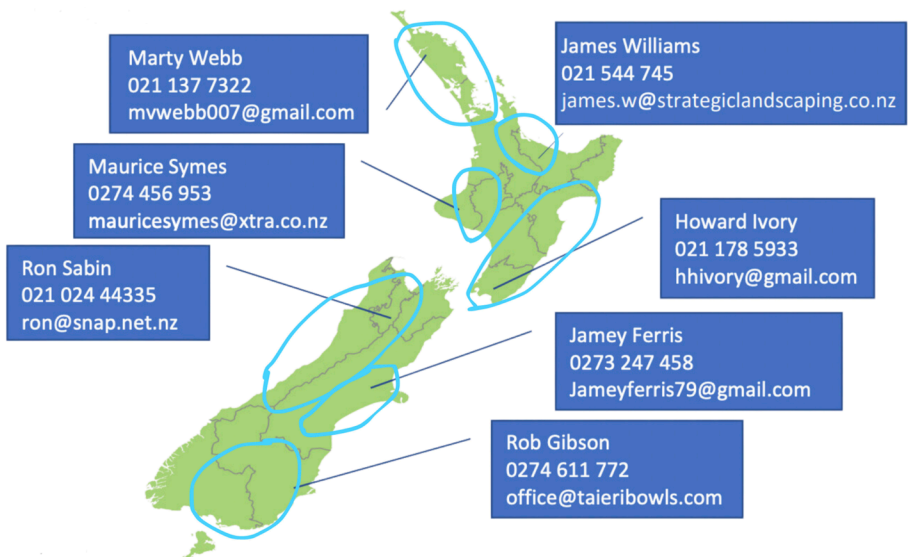
For the volunteers they are also recognised in their contributions to their club or regional facilities with certification for each module successfully completed.

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.

How to do I enroll someone from my club in the training?

If your club wants to nominate a volunteer for training or want further information on the training, contact your nearest regional trainer.

Who is my regional trainer?



What is the cost?

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



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Training

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BOWLS FIELD DAYS 2023-24

NORTH ISLAND

FAR NORTH	COMBINED NORTHLAND (To Host)	DTBC
NORTHLAND		DTBC
AUCKLAND	NTH HARBOUR (to Host) & COUNTIES	DTBC
BAY OF PLENTY	COMBINED THAMES	DTBC
WAIKATO		DTBC
THAMES VALLEY	COMBINED BAY OF PLENTY	DTBC
TARANAKI	Coastal Clubs	Sept 13 th
	Northern Clubs	Feb 14 th
WANGANUI		DTBC
MANAWATU		DTBC
GISBORNE/EC/HAWKES BAY	Hawkes Bay to Host	DTBC
WELLINGTON/KAPITI COAST	Wellington to Host	DTBC
WAIKARAPA		DTBC

SOUTH ISLAND

MARLBOROUGH	NNELSON/MARLBOROUGH COMBINED	DTBC
NELSON		DTBC
WEST COAST/BULLER	COMBINED	DTBC
CANTERBURY	COMBINED MID CANTERBURY	DTBC
STH CANTERBURY/NTH OTAGO		DTBC
CENTRAL OTAGO		DTBC
DUNEDIN/STH OTAGO	COMBINED	DTBC
SOUTHLAND		DTBC



'GROWSAFE TRAINING'

Are you meeting your legal obligations?

For further information on safe & responsible agrichemical use please contact your agronomist or Tara McLeod on 027 597 2755/tmcLeod@nzsti.org.nz

NZSTI have an Association rate for a standard 1-day Growsafe course for a minimum of 10 trainees including post course assessment costs - \$2500 + \$125/person resource costs (incl. GST)

Numbers above 10 generates further savings for the end users or to the Association organising the training.



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David Howard (NZSTI) holding Field Day at Southland in the cold.



Volunteer
Greens Staff at
Working Bee
enjoying time
out.

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Is it sufficiently detailed and in the required position on your Chemical location.



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Gisborne East Coast Flood Damaged Greens

Report by Jamey Ferris. NZ Bowls Greenkeepers Association.

Wairoa Greens:

The two Natural greens had upwards of 200mls of river silt wash through their site. The greens sat like this for two weeks and it set. The greens filled the top boards with silt. With the help of funding, diggers and bobcats were used to clear both greens. The machines on top of the flooding damage left the surface destroyed. There has been no growth recovery, levels are totally out, and the green is covered in some silty black slime. Boards have taken damage, especially the plinths and all the matting, leaving no alternative but to resurface the green. The machinery shed was also washed out but thankfully all the gear looks ok and will just need cleaning and servicing.

Wairoa may need to look at replacing their plinth boards and so I told them to start getting some quotes for this.

Jamey's thoughts to the club that it is possible to be able to get the green up and going so members can be out playing by November this year meaning their season is not too disrupted.

Te Karaka Bowling Green:

There Green had around 100mls of silt wash through and sit on the green. They removed the silt by hand with a large working bee, but the green levels are a major problem.

They have some recovery of Starweed in one area of the green and this seemed to be the highest point on the green, and the rest of the green was dead. The plinth boards were in good condition and matting seemed good. The green levels were what concerned most, including one large hollow in the green which would affect 3 rinks in play. It would be possible to scarify and sow this green as is, but the club believes now is the time to fix their level problems and resurface.

Jamey spoke to those present telling them resurfacing now would mean back playing on the same timeline as Wairoa...early to mid-November.

Tolaga Bay Club:

After viewing Tolaga bay Bowling club Jamey advised the club that due to the bad condition of the green they should follow the same lead as both other clubs and resurface the green. I put it too them the same option as Wairoa and Te Karaka.

The plan to repair.

1. First day take levels and find a height to plane to a new level surface. Peg the green and set the rails, then proceed to plane and remove the debris.
Many hands make light work and multiple people have multiple tasks, from leveling the pegs using the laser (Two people usually the greenkeepers of the clubs) Five to Six people working on and setting the Rails and Fifteen people moving soil into windrows and off the green.
2. On the second day our team of three and the club greenkeeper and help will prepare a seed bed over the green, this will involve loosening up the top 5mls of the green's surface using a light grooving machine and nail rakes. We can also tidy up any imperfections in the levels we see around the plinths, and We will also work in starter fertilisers.

3. Day three we will sow the green with seed and again lightly work some in. As there is no hydro seeder in the area, we will use a product from Prebble seeds that is sprayed onto the sowed surface using a water pump and hosing. This product acts like a glue or polymer and will help seal the green and stop seed washing out.
4. Both clubs will receive a Program on how to grow in the green as fast as possible using both solid and liquid feeds, the correct irrigation and all the maintenance required leading up to the opening of the green. With the warm growing climate play could start early November as it continues to establish itself.
5. All clubs will receive ongoing support from myself and NZBGA and the local greenkeeping Association.



Wairoa Bowling Club following Storm Damage from Cyclone Gabrielle showing surface after removing Silt and Mud.

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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 an additional revenue opportunity for the Association or Bowls New Zealand.

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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PREBBLE SEEDS

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.



AERATION OF GREEN

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 nest 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

Personal reminders:

SEPTEMBER 2023

1 FRIDAY

2 SATURDAY

SEPTEMBER 2023

3 SUNDAY

4 MONDAY

5 TUESDAY

SEPTEMBER 2023

6 WEDNESDAY

7 THURSDAY

8 FRIDAY

SEPTEMBER 2023

9 **SATURDAY**

10 **SUNDAY**

11 **MONDAY**

SEPTEMBER 2023

12 **TUESDAY**

13 **WEDNESDAY**

14 **THURSDAY**

SEPTEMBER 2023

15 FRIDAY

16 SATURDAY _____

17 SUNDAY _____

SEPTEMBER 2023

18 MONDAY

19 TUESDAY

20 WEDNESDAY

SEPTEMBER 2023

21 THURSDAY

22 FRIDAY

23 SATURDAY

SEPTEMBER 2023

24 SUNDAY

25 MONDAY

26 TUESDAY

SEPTEMBER 2023

27 WEDNESDAY

28 THURSDAY

29 FRIDAY

30 SATURDAY



**SUPPORT YOUR
ADVERTISERS**

OCTOBER

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

Personal reminders:

OCTOBER 2023

1 SUNDAY

2 MONDAY

3 TUESDAY

OCTOBER 2023

4 WEDNESDAY

5 THURSDAY

6 FRIDAY

OCTOBER 2023

7 SATURDAY

8 SUNDAY

9 MONDAY

OCTOBER 2023

10 TUESDAY

11 WEDNESDAY

12 THURSDAY

OCTOBER 2023

13 FRIDAY

14 SATURDAY

15 SUNDAY

OCTOBER 2023

16 MONDAY

17 TUESDAY

18 WEDNESDAY

OCTOBER 2023

19 THURSDAY

20 FRIDAY

21 SATURDAY

OCTOBER 2023

22 SUNDAY

23 MONDAY

24 TUESDAY

OCTOBER 2023

25 **WEDNESDAY**

26 **THURSDAY**

27 **FRIDAY**

OCTOBER 2023

28 SATURDAY

29 SUNDAY

30 MONDAY

31 TUESDAY



**THE USE OF SOAKER HOSES CAN
SAVE CLUBS HUGE MONEY AS ALL
WATER GOES ONTO THE GREEN.**

November's Monthly Reminders -

Continue frequent rink movement

Diseases: Check for e.g. 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 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

Personal reminders:

NOVEMBER 2023

1 WEDNESDAY

2 THURSDAY

3 FRIDAY

NOVEMBER 2023

4 SATURDAY

5 SUNDAY

6 MONDAY

NOVEMBER 2023

7 TUESDAY

8 WEDNESDAY

9 THURSDAY

NOVEMBER 2023

10 FRIDAY

11 SATURDAY

12 SUNDAY

NOVEMBER 2023

13 MONDAY _____

14 TUESDAY _____

15 WEDNESDAY _____

NOVEMBER 2023

16 THURSDAY

17 FRIDAY

18 SATURDAY

NOVEMBER 2023

19 SUNDAY

20 MONDAY

21 TUESDAY

NOVEMBER 2023

22 WEDNESDAY

23 THURSDAY

24 FRIDAY

NOVEMBER 2023

25 SATURDAY _____

26 SUNDAY

27 MONDAY _____

NOVEMBER 2023

28 TUESDAY

29 WEDNESDAY

30 THURSDAY



**WATCH FOR DISEASES
SEPTEMBER TO DECEMBER**

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 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 for insect activity (e.g. insects problems are similar to cotula except for cotula weevil) and for diseases 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

Personal reminders:

DECEMBER 2023

1 **FRIDAY**

2 **SATURDAY**

3 **SUNDAY**

DECEMBER 2023

4 MONDAY

5 TUESDAY

6 WEDNESDAY

DECEMBER 2023

7 THURSDAY

8 FRIDAY

9 SATURDAY

DECEMBER 2023

10 SUNDAY

11 MONDAY

12 TUESDAY

DECEMBER 2023

13 WEDNESDAY

14 THURSDAY

15 FRIDAY

DECEMBER 2023

16 SATURDAY

17 SUNDAY

18 MONDAY

DECEMBER 2023

19 TUESDAY

20 WEDNESDAY

21 THURSDAY

DECEMBER 2023

22 FRIDAY

23 SATURDAY

24 SUNDAY

DECEMBER 2023

25 MONDAY

[illegible]

26 TUESDAY

[illegible]

27 WEDNESDAY

[illegible]

DECEMBER 2023

28 THURSDAY

29 FRIDAY

30 SATURDAY

31 SUNDAY

**Are You
Delivering Your
Bowls
Correctly?**



Please Respect Our Green

**KIND WORDS FOR
DUMPERS**

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 insect problems are similar to cotula 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

Personal reminders:

JANUARY 2024

1 MONDAY

2 TUESDAY

Summerset National Singles and Pairs commences

3 WEDNESDAY

Summerset National Singles and Pairs continues

JANUARY 2024

4

THURSDAY

Summerset National Singles and Pairs continues

5

FRIDAY

Summerset National Singles and Pairs continues

6

SATURDAY

Summerset National Singles and Pairs continues

JANUARY 2024

7

SUNDAY

Summerset National Singles and Pairs continues

8

MONDAY

Summerset National Singles and Pairs continues

9

TUESDAY

Summerset National Singles and Pairs completed

JANUARY 2024

10 WEDNESDAY

11 THURSDAY

12 FRIDAY

JANUARY 2024

13 SATURDAY _____

14 SUNDAY

15 MONDAY _____

JANUARY 2024

16 TUESDAY

17 WEDNESDAY

18 THURSDAY

JANUARY 2024

19 FRIDAY

20 SATURDAY _____

21 SUNDAY _____

JANUARY 2024

22 MONDAY

23 TUESDAY

24 WEDNESDAY

JANUARY 2024

25 THURSDAY

26 FRIDAY

27 SATURDAY _____

JANUARY 2024

28 SUNDAY

29 MONDAY

30 TUESDAY

-31 WEDNESDAY



RESURFACE LASER LEVELLING

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

Personal reminders:

FEBRUARY 2024

1 THURSDAY

2 FRIDAY

3 SATURDAY

FEBRUARY 2024

4 SUNDAY

5 MONDAY

6 TUESDAY

FEBRUARY 2024

7 WEDNESDAY

8 THURSDAY

9 FRIDAY

FEBRUARY 2024

10 SATURDAY

11 SUNDAY

12 MONDAY

FEBRUARY 2024

13 **TUESDAY**

14 **WEDNESDAY**

15 **THURSDAY**

FEBRUARY 2024

16 FRIDAY

17 SATURDAY

18 SUNDAY

FEBRUARY 2024

19 MONDAY

20 TUESDAY

21 WEDNESDAY

FEBRUARY 2024

22 THURSDAY

Summerset National Fours Commences

23 FRIDAY

Summerset National Fours Continues

24 SATURDAY

Summerset National Fours continues

FEBRUARY 2024

25 SUNDAY

Summerset National Fours completed

26 MONDAY

Summerset National Mixed Pairs Commences

27 TUESDAY

Summerset National Mixed Pairs Continues

FEBRUARY 2024

28 WEDNESDAY

Summerset National Mixed Pairs Continues

29 THURSDAY

Summerset National Mixed Pairs Completed



RESURFACING A BOWLING GREEN

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

Personal reminders:

MARCH 2024

1 FRIDAY

2 SATURDAY

3 SUNDAY

MARCH 2024

4 MONDAY

5 TUESDAY

6 WEDNESDAY

MARCH 2024

7 THURSDAY

8 FRIDAY

9 SATURDAY

MARCH 2024

10 SUNDAY

11 MONDAY

12 TUESDAY

MARCH 2024

13 **WEDNESDAY**

14 **THURSDAY** *National Intercentre Commences*

15 **FRIDAY** *National Intercentre Continues*

MARCH 2024

16 SATURDAY

National Intercentre Continues

17 SUNDAY

National Intercentre Completed

18 MONDAY

MARCH 2024

19 TUESDAY

20 WEDNESDAY

21 THURSDAY

MARCH 2024

22 FRIDAY

23 SATURDAY

24 SUNDAY

MARCH 2024

25 MONDAY

26 TUESDAY

27 WEDNESDAY

MARCH 2024

28 THURSDAY

29 FRIDAY

30 SATURDAY

31 SUNDAY



ITS NOT JUST A MAN'S JOB

April Monthly Reminders -

Soil analysis results and interpretation should be completed
Checks 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

Personal reminders:

APRIL 2024

1 MONDAY

2 TUESDAY

3 WEDNESDAY

APRIL 2024

4 THURSDAY

National Interclub Sevens Commences

[illegible]

5 FRIDAY

National Interclub Sevens Continues

[illegible]

6 SATURDAY

National Interclub Sevens Continues

[illegible]

APRIL 2024

7 SUNDAY *National Interclub Sevens Completed*

National Interclub Sevens Completed

8 MONDAY _____

9 TUESDAY _____

APRIL 2024

10 WEDNESDAY

11 THURSDAY

12 FRIDAY

APRIL 2024

13 **SATURDAY**

14 **SUNDAY**

15 **MONDAY**

16 TUESDAY

17 WEDNESDAY

18 THURSDAY

APRIL 2024

19 FRIDAY

20 SATURDAY _____

21 SUNDAY _____

APRIL 2024

22 MONDAY

23 TUESDAY

24 WEDNESDAY

APRIL 2024

25 THURSDAY

26 FRIDAY

27 SATURDAY

APRIL 2024

28 SUNDAY

29 MONDAY

30 TUESDAY



SERVICE MOWERS & EQUIPMENT

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

Personal reminders:

MAY 2024

1 WEDNESDAY

2 THURSDAY

3 FRIDAY

Bowls3Five Interclub Commences

4 SATURDAY

Bowls3Five Interclub Continues

5 SUNDAY

Bowls3Five Interclub Completed

6 MONDAY

MAY 2024

7 TUESDAY

8 WEDNESDAY

9 THURSDAY

MAY 2024

10 FRIDAY

11 SATURDAY

12 SUNDAY

MAY 2024

13 MONDAY

14 TUESDAY

15 WEDNESDAY

MAY 2024

16 THURSDAY

17 FRIDAY

18 SATURDAY

MAY 2024

19 SUNDAY

20 MONDAY

21 TUESDAY

22 WEDNESDAY

23 THURSDAY

24 FRIDAY

MAY 2024

25 SATURDAY

26 SUNDAY

27 MONDAY

MAY 2024

28 TUESDAY

29 WEDNESDAY

30 THURSDAY

31 FRIDAY



**SUPPORT ALL
CONFERENCES**

June Monthly Reminders -

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 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

Personal reminders:

JUNE 2024

1 SATURDAY

2 SUNDAY

3 MONDAY

JUNE 2024

4 TUESDAY

5 WEDNESDAY

6 THURSDAY

JUNE 2024

7 FRIDAY

8 SATURDAY _____

9 SUNDAY _____

JUNE 2024

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12 WEDNESDAY

JUNE 2024

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16 SUNDAY

17 MONDAY

18 TUESDAY

JUNE 2024

19 WEDNESDAY _____

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20 THURSDAY _____

[illegible]

21 FRIDAY

[illegible]

JUNE 2024

22 SATURDAY

23 SUNDAY

24 MONDAY

JUNE 2024

25 TUESDAY

26 WEDNESDAY _____

27 THURSDAY _____

JUNE 2024

28 FRIDAY

29 SATURDAY

30 SUNDAY



**DRAINAGE FOR BOTH
GREEN AND CENTRE
SPRINKLER**

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 unwanted 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

Personal reminders:

JULY 2024

1 MONDAY

2 TUESDAY

3 WEDNESDAY

JULY 2024

4 THURSDAY

5 FRIDAY

6 SATURDAY

JULY 2024

7 SUNDAY _____

8 MONDAY _____

9 TUESDAY _____

10 WEDNESDAY

11 THURSDAY

12 FRIDAY

JULY 2024

13 SATURDAY _____

14 SUNDAY _____

15 MONDAY _____

16 TUESDAY

17 WEDNESDAY

18 THURSDAY

JULY 2024

19 FRIDAY

20 SATURDAY

21 SUNDAY

JULY 2024

22 MONDAY

23 TUESDAY

24 WEDNESDAY

JULY 2024

25 THURSDAY _____

26 FRIDAY

27 SATURDAY _____

JULY 2024

28 SUNDAY

29 MONDAY

30 TUESDAY

31 WEDNESDAY



PREBBLES TURF WORLD

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

Personal reminders:

AUGUST 2024

1

THURSDAY

2

FRIDAY

3

SATURDAY

AUGUST 2024

4 SUNDAY

[illegible]

5 MONDAY

[illegible]

6 TUESDAY

[illegible]

AUGUST 2024

7

WEDNESDAY

[illegible]

8

THURSDAY

[illegible]

9

FRIDAY[illegible]

AUGUST 2024

10 SATURDAY

11 SUNDAY

12 MONDAY

AUGUST 2024

13 TUESDAY

14 WEDNESDAY

15 THURSDAY

AUGUST 2024

16 FRIDAY

17 SATURDAY

18 SUNDAY

AUGUST 2024

19 MONDAY _____

20 TUESDAY

21 WEDNESDAY

AUGUST 2024

22 THURSDAY

23 FRIDAY

24 SATURDAY

AUGUST 2024

25 SUNDAY

26 MONDAY _____

27 TUESDAY

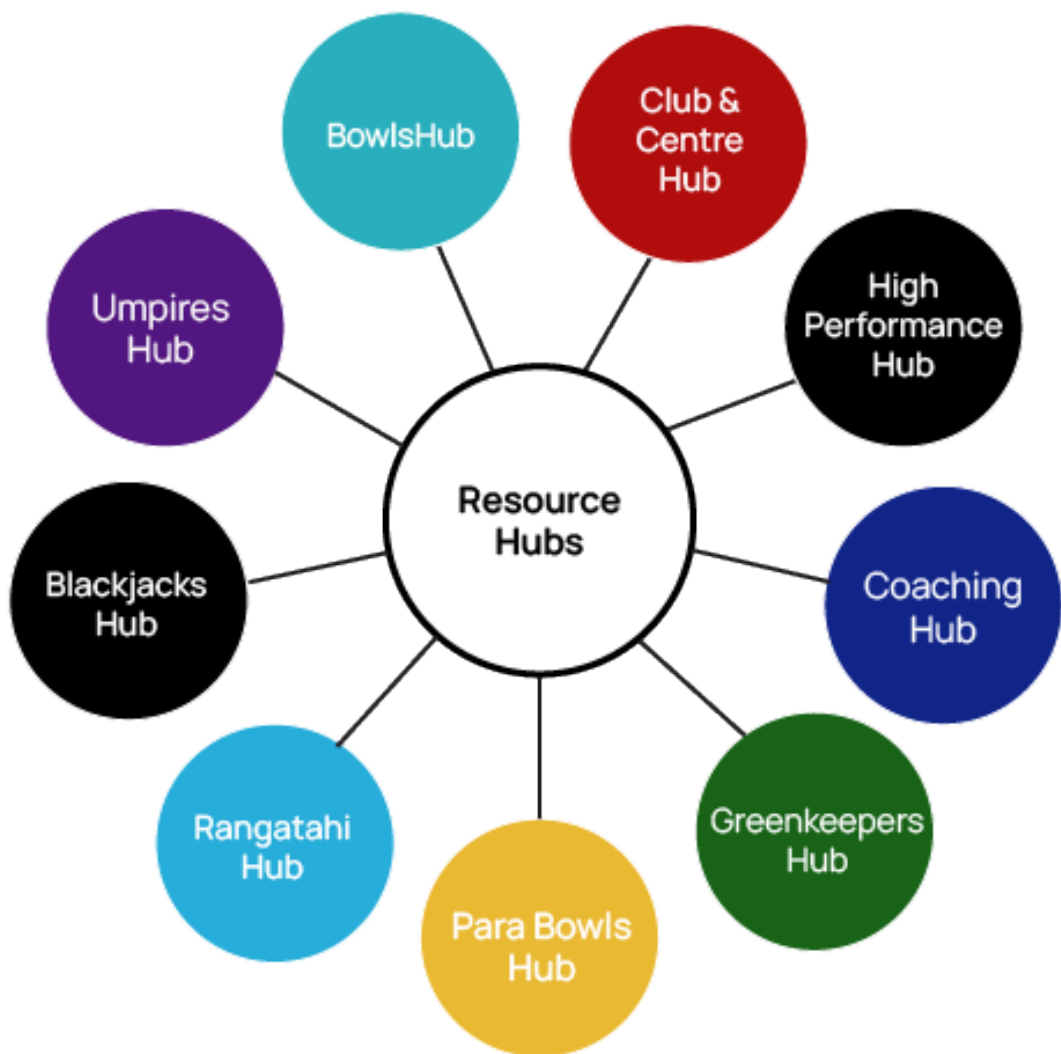
AUGUST 2024

28 WEDNESDAY

29 THURSDAY

30 FRIDAY

31 SATURDAY



**CHECK OUT OUR NEW
WEBSITE**

BOWLSNEWZEALAND.CO.NZ

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 nest 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

Personal reminders:

SEPTEMBER 2024

1 SUNDAY

2 MONDAY

3 TUESDAY

SEPTEMBER 2024

4 WEDNESDAY

5 THURSDAY

6 FRIDAY

SEPTEMBER 2024

7 **SATURDAY**

8 **SUNDAY**

9 **MONDAY**

SEPTEMBER 2024

10 TUESDAY

11 WEDNESDAY

12 THURSDAY

SEPTEMBER 2024

13 FRIDAY _____

14 SATURDAY _____

15 SUNDAY _____

SEPTEMBER 2024

16 MONDAY

17 TUESDAY

18 WEDNESDAY

SEPTEMBER 2024

19 THURSDAY

20 FRIDAY

21 SATURDAY

SEPTEMBER 2024

22 SUNDAY

23 MONDAY

24 TUESDAY

SEPTEMBER 2024

25 WEDNESDAY

26 THURSDAY

27 FRIDAY

SEPTEMBER 2024

28 SATURDAY

29 SUNDAY

30 MONDAY

OCTOBER 2024

1 TUESDAY

2 WEDNESDAY

3 THURSDAY

OCTOBER 2024

4 FRIDAY

5 SATURDAY

6 SUNDAY

CONVERSIONS

LENGTH

1 millimetre (mm)

0.1 centimetre = 0.01 decimetre = 0.001 metre = 1,000 microns = 0.03937 inch (about 1/25 inch)

1 centimetre (cm)

10 millimetres = 0.01 metre = 0.3937 inch = 0.0328 foot = 0.010936 yard

1 decimetre (dm)

10 centimetres = 0.1 metre = 3.937 inches

1 inch (in.)

25.4 millimetres = 2.54 centimetres = 0.0254 metre = 0.083333 foot = 0.027778 yard = 0.00505 rod

1 foot (ft)

12 inches = 0.3336 yard = 0.060606 rod = 30.48 centimetres = 0.3048 metre = 0.16667 fathom

1 yard (yd)

36 inches = 3 feet = 0.181818 rod = 0.9144 metre = 0.00454545 furlong

1 metre (m)

100 centimetres = 39.37 inches = 3.2808 feet = 1.09361 yards = 0.1988 rod = 0.001 kilometre = 0.5468 fathom

1 rod (r.)

5.5 yards = 16.5 feet = 198 inches = 5.02921 metres = 0.003125 mile = 0.025 furlong = 25 links

1 kilometre (km.)

1,000 metre = 3,280.8 feet = 1093.6 yards = 0.62137 mile

1 mile (mi.)

5,280 feet = 1,760 yards = 1,609.35 metres = 320 rods = 8 furlongs = 63,360 inches = 80 chains

AREA

1 square millimetre (sq.mm.)

0.01 sq cm = 0.000001 sq m = 0.00155 sq in.

1 square centimetre (sq.cm.)

100 sq mm = 0.155 sq inch = 0.001076 sq ft

1 square inch (sq.in.)

6.45 sq cm = 0.0069 sq ft

1 square foot (sq.ft.)

144 sq inches = 0.111111 sq yd = 0.0929 sq m = 0.003673 sq rod

1 square yard (sq.yd.)

9 sq ft = 1,296 sq inches = 0.83616 sq m = 0.03306 sq rod

1 square metre (sq.m.)

10.76387 sq ft = 1,500 sq in = 1.195985 sq yd = 0.039537 sq rod = 1×10^6 sq mm = 10,000 sq cm

1 square rod (sq.r.)

30.25 sq.yd = 25.29295 sq.m = 272.25 sq.ft = 0.00625 sq.acre = 0.0025293 hectare = 625 sq.links

1 acre (a)

43,560 sq.ft = 4840 sq.yd = 160 sq.rod = 4,046.873 sq.m = 0.404687 ha. = 0.0015625 sq.mile = 10 sq.chain = 8 ft.wide strip by 1 mile long (approx)

1 hectare (ha.)

2,471 acres = 395.367 sq.rods = 10,000 sq.m = 0.01 sq.km = 0.0039 sq.mile

1 square kilometre (sq. km.)

0.3861 sq.mile = 247.1 acres = 100 ha = 1×10^6 sq.m

1 square mile

640 acres = 1 section = 258.9998 ha. = 102,400 sq.rods = 3,097,600 sq.yd = 2.589×10^6 sq.m

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 x 10⁶ 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 (°C x 1.8) + 32 = degrees Fahrenheit (°F)

Degrees Fahrenheit (°F - 32) x 0.555 = degrees Celsius (°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

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.

weight - $(1000 \text{ kg}/9.82 \text{ m/s}^2) = 9810 \text{ kg/m/s}^2$ 1 grain (gr.)
= 9810 N

1 grain (gr.)

64.7989 mg = 0.03657 grams = 0.0020833 oz
= 0.0648 gpm

1 milligram (mg.)

0.001 gm = 0.015432 grain

1 gram (gm.)

1,000 m. Gm = 0.035274 oz avoirdupois =
15.42356 grains = 0.56438 dram avoirdupois
= 0.0022046 lb = 0.001 kg

1 ounce avoirdupois (oz. Av.)

0.911458 oz = 28.349527 gm = 437.5 grains =
16 drams = 0.0625 lb

1 kilogram (kg.)

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

1 ton (short)

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

1 tonne (metric)

2,204 lb = 1.1023 short tons = 0.984 long ton
= 1,000 kg

Metric Weight

1 grain = 0.065 gram
1 apothecaries' scruple = 1.296 grams
1 avoirdupois ounce = 28.350 grams
1 troy ounce = 31.103 grams
1 avoirdupois pound = 0.454 kilogram
1 troy pound = 0.373 kilogram
1 gram = 15.432 grains
1 gram = 0.772 apothecaries' scruple
1 gram = 0.035 avoirdupois ounce
1 gram = 0.032 tray ounce
1 kilogram = 2.205 avoirdupois pounds
1 kilogram = 2.679 tray pounds

FLOW

1 cu.m/sec (1,000 L/s) = 35.31 cu ft/sec
1 cu.m/sec (m3/s) = 15,850 gal/min
1 m3/hr x 0.278 = L/s, 1 m3/hr x 16.7 L/min
Ls x 3.60 = m3/hr, L/m x 0.060 = m3/hr
1 gal/min = 0.00006309 m3sec
1 gal/min = 0.06309 l/sec
1 ft3/sec = 0.02832 m3/sec
1 ft3/sec = 28.32 l/sec
gpm x 0.272 = m3/hr
gpm x 0.0759 = L/sec
gpm x 4.55 = L/min
m3/hr x 3.68 = gpm
L/sec x 13.2 = gpm
L/min x 0.220 = gpm

PRESSURE

1 pascal (Pa, = to 1 Newton/m2)
= 0.0001450 psi
1 pascal = 0.004019 inch water (60°F)
1 inch water (60°F) = 248.8 pascals
1 psi = 6894.0 pascals
psi x 0.704 = m
psi x 6.89 = kPa
psi x 0.0680 = bar, psi x 2.31 = ft
ft x 0.305 = m, ft x 0.433 = psi
m x 1.42 = psi, m x 9.80 = kPa
kPa x 0.145 = psi, kPa x 0.102 = m
bar x 14.7 = psi, bar x 10.34 = m
m x 3.28 = ft, m x 0.0967 = bar

Atmospheric Pressure

1 bar = 100,000 Pa = 10^5 P
(standard atmospheric pressure - 1 atm =
1.01325 bar)

DILUTIONS

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

1 per cent (%)

10,000 ppm = 10 gm/L = 1.28 oz by weight
per gal = 8.336 lb per 100 gal
0.1% = 1000 ppm = 1000m gm/L
0.01% = 100 ppm = 100m gm/L
0.001% = 10 ppm = 10 gm/L
0.0001% = 1 ppm = 1m gm/L

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.

[illegible]

Note: * Some common weed problems: Grasses - brown top, 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.

[illegible]

* **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 ergonomist.

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
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FERTILISER INPUTS

Date	Type of N Fertiliser	Rate (kg/green)				
		1	2	3	4	5

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		Disease	Yes No
	Hydrocotyle			
	Pratia			
	Colbanthus			
	Pearlwort			
	Moss and Slime		Pests	Yes No
	Other			
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
Overall Green Rating Criteria: A+ to B. Surface and ditches/banks all acceptable - suitable for all Centre and/or National events and as HQ greens. B- and C+ Surface acceptable, but ditches and banks below regulatory standard - suitable only for Centre qualifying events. C or Less General green standard below standard. - Unsuitable for Centre or National events				
Comments:				

Bowling Club:					Natural or Artificial surface (please circle)				
Green Number/Name:					Date inspected:				
Grading (please circle)		International	National	Centre		Club			
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			
1.0 LEGAL REQUIREMENTS (Tick appropriate box [description]) under scoring. Then add up the points)								Total Score/15	
Item	Testing process	Scoring		Issues to consider					
		5 points	0 points						
1.1 Bank height	At one location for <u>each bank</u> , use a tape measure to measure the height between the green surface and the top of the bank.	All <u>banks</u> are at least 230mm above the green surface.	<u>One or more banks</u> are less than 230mm above the green surface.	Measuring should be completed at any point where the bank is obviously low.					
1.2 Ditch width	At one location for <u>each ditch</u> use a tape measure to measure the distance between the green edge and bank skirt.	All <u>ditches</u> are between 200 and 380mm wide.	<u>One or more ditches</u> are either 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.					
1.3 Ditch depth	At one location for <u>each ditch</u> use a tape measure to measure the distance between the top of the green and the base of the ditch.	All <u>ditches</u> are between 50 and 200mm deep.	<u>One or more ditches</u> are either 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.					
2.0 PLAYING REQUIREMENTS (Tick appropriate box [description]) under scoring. Then add up the points)								TOTAL SCORE/25	
Item	Testing process	Scoring		Issues to consider					
		5 points	0 points						
2.1 Holding ditches	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.					
2.2 Pace of the green	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?					
2.3 Draw N→S	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.					
W→E		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.						
2.4 Ditch hand draw	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	
3.1 Evenness of cover	<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>	The green has a mixed cover with obvious patches and these patches are between 300 & 500mm.	The green has a mixed cover with obvious patches and these patches are greater than 500mm.	<p>A mixed green is either:</p> <ol style="list-style-type: none"> 1. Starweed mixed with dioica and/or maniototo 2. maniototo and dioica <p>Dioica greens with obvious and different patches of dioica <u>are not</u> considered as a mixed green.</p> <p>Other plant mixtures including grass are considered as weeds.</p>
3.2 Bare areas	<p>When walking across the green consider:</p> <ol style="list-style-type: none"> 1. Are there any bare areas present? 2. How many bare areas are present? 3. What is the size of each bare area(s)? 	<p>The green has a complete cover.</p> <p>No bare areas are present.</p>	The green has less than ten (10) bare areas <u>and</u> each area is <u>less than</u> 150mm in diameter	<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>	Bare areas include obvious bare areas and cover that has been lost due to disease or insect activity.
3.3 Weed content	<p>When walking across the green consider:</p> <ol style="list-style-type: none"> 1. Are there any weeds present? 2. How many weeds are present? 3. What is the size of the individual weed patches (<i>Hydrocotyle</i>, grass, <i>pratia</i>)? 	<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>	There are a few weeds present (ie 20 - 50 weed plants) and individual patches of weeds are no larger than 100mm in diameter.	<p><u>Either:</u> There are a lot of weeds present (>50 weeds) <u>Or:</u> Large patches (> 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>
3.4 Groove lines /core holes	<p>When walking across the green consider:</p> <ol style="list-style-type: none"> 1. Are the groove/slice lines or core holes obvious? 2. Are there any groove/slice lines or core holes that have not been fully backfilled with soil? 	There are no obvious groove/slice lines or core holes present on the green.	The groove lines/core holes are just visible, but the roll of the jack is unaffected or the green surface feels smooth.	The groove lines or core holes on part of the green are very obvious or have not been completely filled with soil.	<p>If the groove/slice lines or holes can be seen, <u>Either</u> :</p> <ol style="list-style-type: none"> 1. Run your hand over them to see if the surface is smooth <u>Or:</u> 2. Roll a jack over them and see if this bobbles.
OTHER OBSERVATIONS (please add any relevant comments)					

SUMMARY OF IRRIGATION USE

[illegible]

SUMMARY OF DAILY RAINFALL

[illegible]

2023

JANUARY							FEBRUARY							MARCH							APRIL						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
30	31				1				1	2	3	4	5			1	2	3	4	5						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28						27	28	29	30	31			24	25	26	27	28	29	30

MAY							JUNE							JULY							AUGUST						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7				1	2	3	4	31					1	2		1	2	3	4	5	6
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31			

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
				1	2	3	30	31					1			1	2	3	4	5					1	2	3
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31

2024

JANUARY							FEBRUARY							MARCH							APRIL						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7				1	2	3	4					1	2	3	1	2	3	4	5	6	7
8	9	10	11	12	13	14	5	6	7	8	9	10	11	4	5	6	7	8	9	10	8	9	10	11	12	13	14
15	16	17	18	19	20	21	12	13	14	15	16	17	18	11	12	13	14	15	16	17	15	16	17	18	19	20	21
22	23	24	25	26	27	28	19	20	21	22	23	24	25	18	19	20	21	22	23	24	22	23	24	25	26	27	28
29	30	31					26	27	28	29				25	26	27	28	29	30	31	29	30					

MAY							JUNE							JULY							AUGUST						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
		1	2	3	4	5						1	2	1	2	3	4	5	6	7				1	2	3	4
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31					26	27	28	29	30	31	

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
30					1			1	2	3	4	5	6					1	2	3	30	31					1
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29



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