

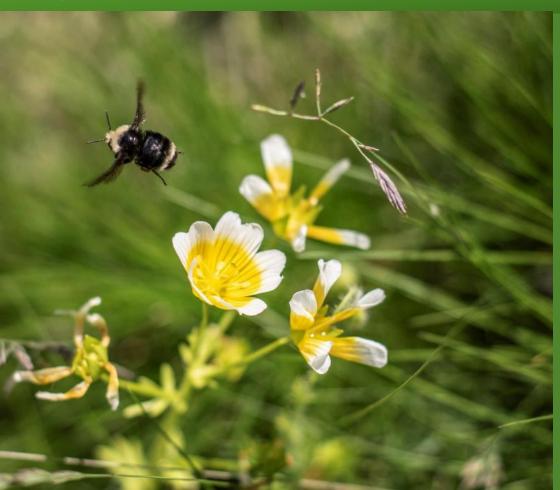
LOW INTENSITY TURF MAINTENANCE – INTERIM UPDATE Naturalized Meadows Update and 2021 Plan

Regular Park Board Meeting Monday, April 26, 2021



Purpose of Presentation





Provide staff updates on the low-intensity turf maintenance motion:

- To present the alternative maintenance plan for select sites in 2021
- To share the tracking and documenting plan

Approved Motion (March 10, 2021)



THEREFORE BE IT RESOLVED:

- A. THAT the Vancouver Park Board direct staff to establish incremental targets and develop an implementation plan, including any new equipment required, to defer and/or alter mowing regimes on appropriate turf surfaces maintained by Park Board staff, with consideration to park typologies and usage intensity;
- B. THAT the current temporary changes in mowing practices (COVID-19-related pilot) be tracked and documented as to quantify and qualify their effect on biodiversity, ecological benefits, operational efficiency/diversification, emission comparability, and financial sustainability; and
- C. FURTHER that staff to report back to the Board with their findings.

Policy Alignment





VanPlay Alignment – Access to Nature





Nature N.3.6

Provide access to a naturally managed area of at least 0.2 ha within a 10 minute walk of all residents.

VanPlay Alignment - Biodiversity





Diversity P.5.5

Exhibit ornamental native species, bird and pollinator friendly gardening, and appropriate and beautiful naturally managed areas in parks by expanding public education and outreach campaigns such as demonstration gardens.

VanPlay Alignment - Decolonization





Groundwork

G 6.1 Instill the Mission,
Vision and Values of Park
Board Reconciliation and
Decolonisation into the
Park Board's
organizational culture of
learning, respect and truth
telling.

VanPlay Alignment – Citizen Science





Nature N.4.1

Engage residents in fun and easy environmental monitoring, citizen science and environmental education programs to demonstrate the benefits of an ecological approach to horticulture and naturally managed spaces in parks.



Implementation Plan

Staff Roles





Pilot Site Selection - Turf Typologies





Pilot Site Mapping – New Brighton Park





2021 Pilot Sites



MEADOW SITES

2020 Park Board Meadows

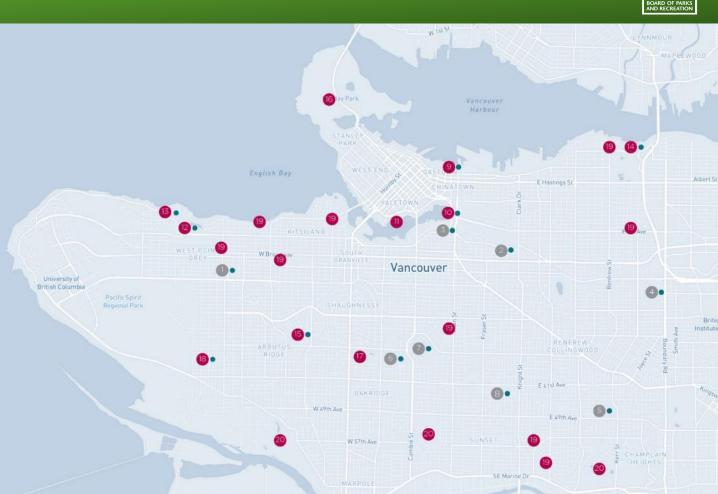
1.	Almond Park	0.39	
2.	China Creek North Park	0.34	
3.	East Park	0.30	
4.	Falaise Park	0.99	
5.	Killarney Park	2.97	
6.	Oak Meadows	1.30	
7.	Queen Elizabeth	6.73	

2021 New Meadows

8. Memorial South Park

TOTAL		37.3Ha
20.	Golf Courses	9.6
19.	Road Boulevards	1.29
18.	West Memorial Park	2.56
17.	VanDusen	0.99
16.	Stanley Park	5.26
15.	Prince of Wales	1.02
14.	New Brighton Park	0.74
13.	Locarno Park	0.37
12.	Jericho Park	0.68
11.	David Lam Park	0.06
10.	Creekside Park	0.10
9.	CRAB Park at Portside	0.03

Research Sites



Mowing Regimes





- No Mow Meadows
 Managed for invasive plants, as needed
- Low Mow MeadowsMown up to twice annually
- Enhanced Low Mow Meadows
 Over-seeded & mown up to twice annually
- Wildflower Meadows
 Seeded on bare soil & mown up to twice annually

Internal Resources





A 'No Mow' Meadow is an area of existing lawn that is no longer mown, as a means of encouraging native and naturalised wildflower species to germinate, bloom and self-seed. Manual maintenance is required to control

- · Supports native species of flora and fauna
- Reduces maintenance demands and costs Improves soil health & hydrology

ARRIVINATIONS

Waturalised meadows should be grown in areas of parks and landscapes that are away from heavy Foot traffic. bleathy carriers accupied the bases of these or on speed grades, grassland masteres can efeviate difficult to mov areas of larms and sid the reduction of regular

Around the perimeter of meedows, 1-2m lawns should be interlicently accurs and not forentten sources.

MAINTENANCE

there is an extrame risk of fire in some cases. The trid year. Wildflowers - To encourage a diverse wildflower count mow can abcounge a secondary fall bloom. A GEP should. Hattve wildflower plage can be planted when available. assess the sites for nesting species before any moving

ideally, dead matter and cuttings should be left on site for up to one week after outling, allowing seeds to drosand native spaces to forage within the cuttings or escape. should they be trapped. These cuttings should then be

from low natitient soils which restricts weed growth. The removal of outtings limits the return of nutrients to the

Spot mow wents & tree supplings

· Mow petitic traits through meadows

meadow

Only requires mowing during extreme fire risk

· Mow a perimeter lawn edge (1-2m) around

. Sow wildflower seed to encourage species

Spot Maintanance - Wheels are appreciate opportunities species and should be expected wiften any meadows. sensor. To limit the provide these wearts have ensure they are regularly removed prior to setting seed or spreading Danageling upon the species. His nan he done with seen herbicide (applied by a qualified mainber of staff).

and citizen science opportunities to plant the plugs and with these proups, with a mixture of seeds, rolled in of wildflower and holds mostlure for cerminated seeds. reducing drought impact



KEY POINTS

diversity

A 'low mow' meadow is an existing passiveuse furf area that has its maintenance reduced to once or twice per year, to allow native and naturalised plant species to bloom and establish.

- Improves ecological value of a site Supports native species of flora and fauna
- Reduces maintenance demands and costs. Improves soil health & hydrology

APRILICATIONS AND LIMITATIONS After assessing the site, to see whether it can support

The reduced maintenance aesthetic and avoid conflict with suisting uses, how mow meadows can be placed on the fringes of busy landscapes to provide interesting and diverse analystics to a space.

The perimeter edge and pathways panile grown on a regular basis, however, agold moving the larger meadow during May - August 15th as birds and mammals may be resting within the vegetation.

Perimeter Strip - Ensure meadows have a move 1-2m laws skip around the perimeter to exhibit ongoing care and - the properly trained and well coordinated with the site maintenance. Mow with the same regularity as adjacent.

Processed Maddle - more freshoothing and securitive area in there with the meadow to encourage public use along predeter paths. This encourages public interaction incorporates the meadows into usable park space.

. Mow once/twice year (spring and/or summer)

Mow public trails through meadows

· Mow a perimeter tawn edge (1-2m) around

· Overseed wildflower send to encourage species

Heathering - Regular inspertions should be performed to control excessive site litter and observe any unexpected names that mer arms.

A late summer mow (after August 15th) can reduce risk of fire and encourage a second bloom, depending on

All staff expected to maintain the grassland should



DEFINITION

- A low most meadow is an existing passive use furf area that has its maintenance reduced to once or twice per year, to allow native and naturalised plant species to bloom and establish
- Improves ecological value of a site Supports native species of flora and fauna
- Reduces maintenance demands and costs Improves soil health & hydrology

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ARRESCATIONS AND LIMITATIONS

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. All staff expected to maintain the grassland should laws ship around the perineter to exhibit ongoing care and ... be properly trained and well coordinated with the site



ower meadows are an incredibly valuable Manually remove weeds and tree sapplings habitat for native beneficial species of flora and facna. Enjoyed by many, the flower spectacle

- · Mow a perimeter lawn edge (1-2m) around encourages public interaction and observation throughout the year, and offers visual stimulation Mow public trails through meadows · Resert every third year (approx)
 - . Can be mown during extreme risk of fire

Improves soil health & hydrology

APPLICATIONS AND LIMITATIONS

Reduces moving requirements

he stropped back to here and and treated with a sale. harbootic Wildflower seeds prefer low nutrient soils so word adding any fertilizer to the site for the duration of the wildflower meadow.

Supports rative species of flora and fauna

Use wither a bit-session to apply seed, after which it needs: to be lightly present into the soit (with a roter or feet) and ... additional impation in try periods during establishment ised days for the duration of the establishment native. Native eventreen many seed criump formanch should also the incorporated into the meadow to statelise the salis (25% minimum of the wildflower mix)

 How meedows in spring before the growing season.

Ward - Spot weed any inverse weeds or tree sapplings before top roots have spread and before setting seed to minimise future maintenace.

Report - Screen additional speciments three years to top up the wildflower species and ensure the meadows look appealing to the public, Seed can be distributed in approp or fall sharing periods of rain and will need Concernies study & disposite)

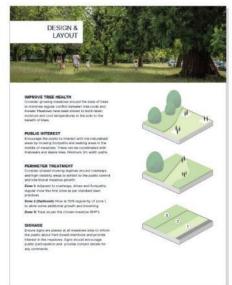
Community Groups - Consider partnerships with community drougs, schools etc. to spread the west and main for mentions. "Send help" can be constant with a sold class/seart triss, neoclassed and distribution by community

examples of information sheets prepared for Operations staff for each maintenance strategies.

Internal Resources







examples of information sheets prepared for Operations staff



Tracking & Documentation

Select Research Sites



MEADOW RESEARCH SITES

2020 Park Board Meadows

1. Almond Park 0.39

2. China Creek North Park 0.34

3. East Park 0.30

4. Falaise Park 0.99

5. Killarney Park 2.97

Oak Meadows 1.30

Queen Elizabeth 6.73

8. Memorial South Park 1.60

2021 New Meadows

9. CRAB Park at Portside 0.03

10. Creekside Park 0.10

11. Jericho Park 0.68

12. Locarno Park

0.37

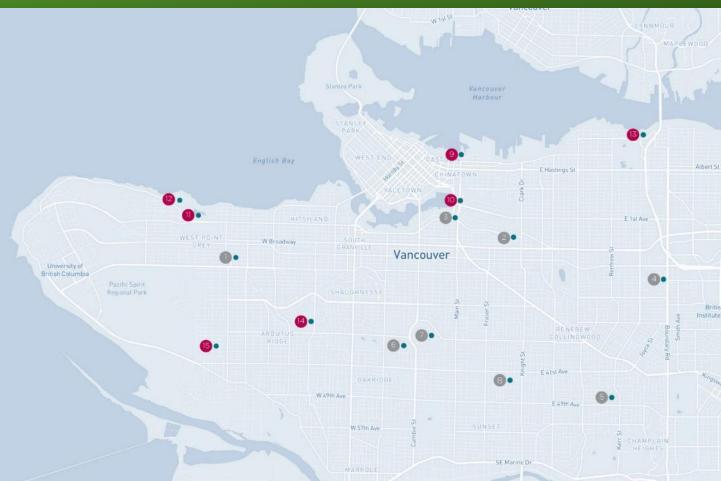
1.02

13. New Brighton Park 0.74

14. Prince of Wales

15. West Memorial Park 2.56

Research Sites



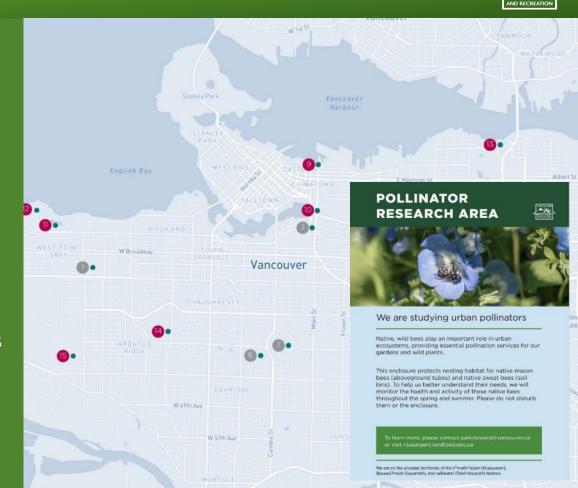
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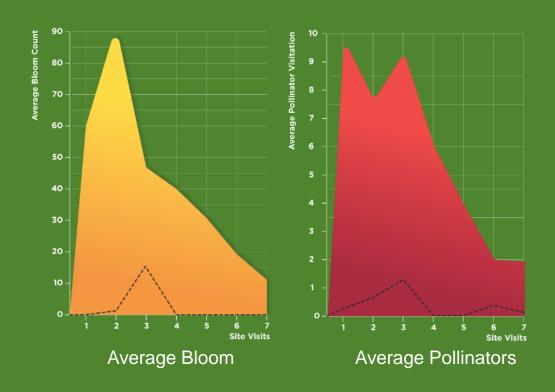
- 6 Meadow Research Sites
- Visited every week between June & August
- Weekly data collected:

 Pollinator counts, Flowering species and bloom abundance, Soil temperatures moisture. Plus, any additional field notes of importance.



Biodiversity Benefits





^{*}mowed lawn comparison represented with the black dashed line.

2020 Biodiversity data (6 sites):

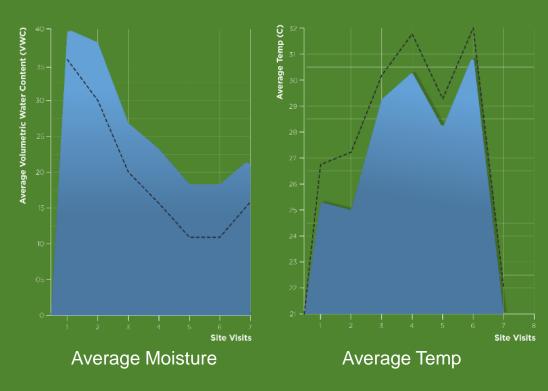
 The reduction in mowing saw dramatic increases in bloom count and subsequently pollinators. An increase in birds sightings was also noted.

2021 Biodiversity Research:

Additional Blooms & pollinators data will be collected, as well as insectivores (bats & swallows) (5 sites)

Ecological Benefits





2020 Ecological data (8 sites):

- Increased soil moisture
- Decreased soil temperature

2021 Ecological Research:

- Soil moisture & temperature
- Soil microbes & fungi

^{*}mowed lawn comparison represented with the black dashed line.

Equipment Requirements



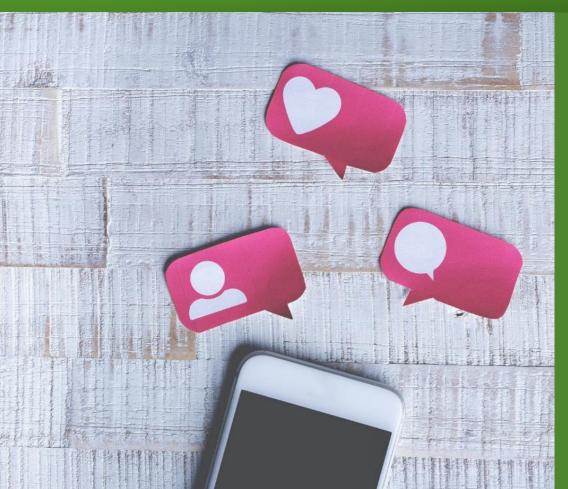


Staff will complete an evaluation of existing equipment to assess:

- Which equipment currently owned can be repurposed
- What preparation is required
- Is any additional equipment needed?

Communication Campaign





Media outreach will be a key component to the meadow sites in 2021.

- Vancouver.ca updates, dedicated page
- Press release, to encourage residents to do same in May
- Interactive social media campaign, with images
- Improved explanatory signage

Next Steps





- Implement pilot projects
- Expand social media campaign, site signage & public education
- Track environmental metrics and data
- Report back to Board in Q3 2021 results and proposed further incremental targets going forward

2021 Pilot Sites



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