

[G+](#) [More](#) ▾

Ideas about growing grass

[Home](#)[Jason's Productivity Files](#)

THURSDAY, 22 DECEMBER 2011

Mower Efficiency Comparison

So here are some more numbers and graphs. This week I have been analysing all of the data that I have collected this past year to try and make some meaningful sense out of it. There are many ways to compare one course to another but by simply using a \$ figure doesn't always work. Some courses are simply more expensive to maintain, even with cost-cutting, sustainable practices. Labour is usually the biggest part of any golf course maintenance budget so it makes sense to see how efficient you are for particular tasks.

I have put together some data that shows how efficient our course is to mow. To measure how efficient a particular mower is you need to know how long it takes to mow a specific area and also how big that area is. You could also add in the costs of maintaining the mower to get a real good set of statistics.

Sadly my records just aren't complete enough for that to happen this year. It is a real challenge keeping track of everything when the crew consists of 3 full time people including myself.

Pender Harbour Areas : Efficiency

Area	M2	Time to cut(hrs)	Efficiency (m2/hr)
Greens	3,273.10	1.48	2,211.55
Tees	2,647.40	2.84	932.18
Fairways	39,743.70	4.76	8,349.52
Rough	73,767.50	13.37	5,517.39

Efficiency

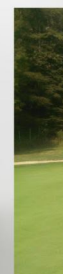


As can be seen the most efficient area to mow is our fairways at a little over 8000m2 per hour. This is due to the large mower and relatively easy terrain that makes up the fairways. Our fairways are clearly defined and for the most part are open and clear of trees and other obstacles. This number changes widely and is actually quite inefficient when it comes to fairways. Different mowing patterns and

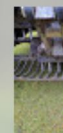
FEAT

Turf
Tha

Every
gues
prior
on th



POP



pretty
why i



is pe

Turf
I've t
and a
goug

amount of golfers can quickly change this number. At Pender Harbour we have narrow, bumpy fairways which limit our mowing speed to 6.5km/h. Some courses can mow at double that speed effectively doubling the efficiency. I know for a fact that the course down the road can cut over 16000m² per hour on their fairways and it all comes down to the shape, and smoothness at their course.



Steep slopes take longer to cut

Next is our putting greens at 2200 m²/hr. The greens mower is much slower, narrower and requires many turns. By using a triplex mower we effectively double the efficiency of mowing our greens. We can hand cut our greens in 3 hours or twice the time that it takes with the triplex.

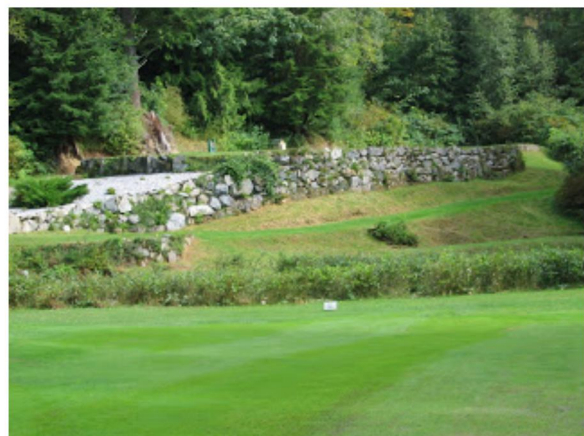
The least efficient area of the course to mow is our tee boxes. As can be seen on the above picture, our tees are surrounded with large walls and steep drop offs. The tees require the mower operator to carefully turn and run at an even slower speed.

Cutting the tee boxes also requires the operator to get on and off the mower often to remove and set the tee markers.

By continually monitoring the time it takes to perform a particular task we can really see how changes we make effect our efficiency and bottom line.



Really steep slopes are very expensive to mow, and are often best left unmowed.



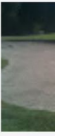
Many tees at PHGC are surround by big rock walls.

Posted by [Jason Haines](#)

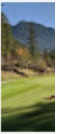


Labels: [efficiency](#), [Sustainability](#)

Location: [British Columbia 101, Garden Bay, BC V0N 1S0, Canada](#)



main
Supe



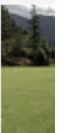
2018



Last
I cou
into r
weatl



and a



have



While
sit in.

BLO

▶ 21

▶ 21

▶ 21

▶ 21

No comments:

Post a Comment

Enter your comment...



Comment as: Force Of Nature --

Sign out

Publish

Preview

Notify me

[Newer Post](#)

[Home](#)

[Older Post](#)

Subscribe to: [Post Comments \(Atom\)](#)

- ▶ 21
- ▶ 21
- ▶ 21
- ▼ 21
- ▼

- ▶
- ▶
- ▶
- ▶
- ▶
- ▶
- ▶

- LABI
- [#clip](#)
- [aerat](#)
- [anthr](#)
- [apps](#)
- [Bent](#)
- [biolo](#)
- [Budg](#)
- [clima](#)
- [clippi](#)
- [clove](#)
- [comr](#)
- [Cyan](#)
- [Dew](#)
- [digita](#)
- [Disea](#)
- [disea](#)
- [Dolla](#)
- [drou](#)
- [effici](#)
- [EIQ \(](#)

environment (5)

equipment (4)

experiment (1)

fairways (3)

fertilizer (29)

Form (4)

funny (1)

Fusarium Patch (35)

Google docs (17)

Greenspeed (4)

Growth Potential (28)

growth rates (16)

grubs (1)

hack (6)

Height of Cut (5)

hud (2)

IPM (34)

iron (3)

irrigation (9)

job board (4)

labor (2)

learning experiences (2)

M. nivale (11)

math (1)

Microdochium nivale (19)

minimalist (9)

MLSN (17)

moss (9)

Mulch (1)

newt (1)

nitrogen (18)

opinion (2)

Organic (16)

other stuff (1)

Pesticide Ban (3)

Pesticides (36)

pH (2)

phosphite (13)

pigments (2)

Poa annua (27)

primo (1)

putting green moss (7)

putting greens (5)

R. cerealis (2)

robot mowers (4)

rolling (19)
salamander (1)
sand (1)
sand trap (3)
Seed head (6)
Shade (10)
silica (1)
silvery thread moss (7)
Smart phone (2)
social media (1)
soil moisture (5)
STIMP (3)
Sunseeker (1)
super interview (1)
Sustainability (43)
technology (2)
Turf disease (44)
UAV (1)
urea (5)
VMC (1)
Water Use (5)
weeds (3)
wetting agents (3)
white yarrow (3)
winterkill (1)
wood ash (1)
yellow patch (5)

FOLLOW BY EMAIL



Google Sheets

Sorry, unable to open the file at this time.

Please check the address and try again.

Get stuff done with Google Drive

Apps in Google Drive make it easy to create, store and share online documents, spreadsheets, presentations and more.

Learn more at drive.google.com/start/apps.