



WORKING FOR GOLF



International Turfgrass Seminar

Low input management of golf courses

with news from red fescue research and practical experiences

5-6th October 2015
Copenhagen & Malmö



« *Searching solutions* »
or
« *Fescue on your own* »





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declaring the public utility of protective perimeters of water points,
intended for drinking water supply of neighboring towns



THE GENERAL OUTLINES of Order:

*Maximum 120 units of nitrogen / year / ha
of which 50 are considered to be derived from
clippings*

*Pesticide use should be demonstrated and made absolutely
necessary , Opinion of the DRAF (Regional
Plant Protection Service), the Chamber of Agriculture of
department, and DDASS (Directorate of Health Affairs)*

Maintenance « STANDARD »:

220 à 260 units of N/ Ha / an

5 à 10 fongicides et 1 à 2 insecticides par an

80% Poa, 20% Browntop Bent

2 à 3 cm root depth

H.O.C 3 mm in growing season and 4-4,5 in winter

Good quality during the growing season

The problems are mainly grouped
between October to March



After 1 year of strict application

transition to 120 units on greens and one treatment in March 2007

Winter 2007-2008

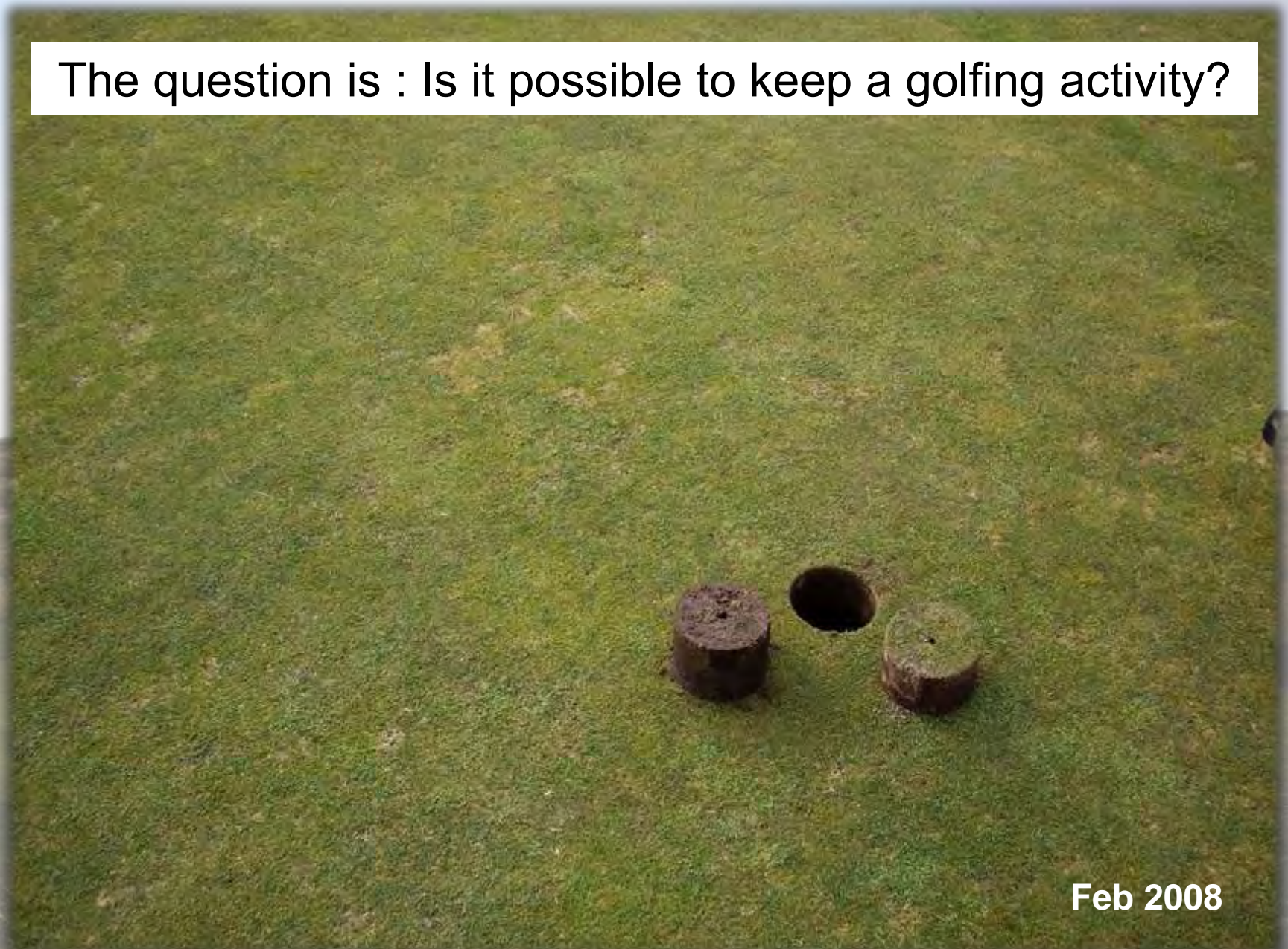
- Less impact diseases
- But very problematic quality for the game



Feb 2008



The question is : Is it possible to keep a golfing activity?



Feb 2008

4 Working directions

Ultra split Nutrition (" spoon feeding ")

First target of 80 units about 40 times 2 units

Change the species (Flora inversion)

Objective installation mixtures of different fescues and Ag Tenuis

Enrichment of fertilization plan related to soil analysis

Seaweed, plant maceration , bacteria, Humic acid, organic matter and T-E

Targeted maintenance & mechanical operations program has adapted species



Full scale comparative test for one year on 9-hole greens

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Objective installation mixtures of different fescues and Ag Tenuis

Enrichment of fertilization plan related to soil analysis

Seaweed, plant maceration , bacteria, Humic acid, organic matter and T-E

Specific trials with own mix
Seaweed, Potassium Humates
and liquid organic matter from
lombric
Same mecanic maintenance program



Mai 2008 à mars 2009

PRODUITS :

1*)algues(60%) + Humyn (85% d'acides humiques) (30%) + fer (forme sulfate) (10%)



2*)algues(50%) + M.O liquide (engrais organique : 2,5-0-7.5 ,35% M.O) (50%)



Fréquence d'application : mensuelle

Dose : 40 litres par Hectare de produit

Dilution : 1 pour 8 d'eau (env. 350 l/Ha)

Site : Greens sable, pH 8,5, 2,8% M.O

Résultats : ① témoin ① mélange 1*) ② mélange 2*)



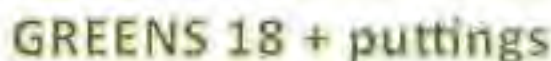
Begin the FIGHT



Far in the will to kill Poa



JUIN 2008

[illegible]

De mai 2008 à avril 2009

62 units of Nitrogen

Average of 40 since 2009



Mai 2009

EVOLUTION YEAR by YEAR

The sward



2008



2009



2010

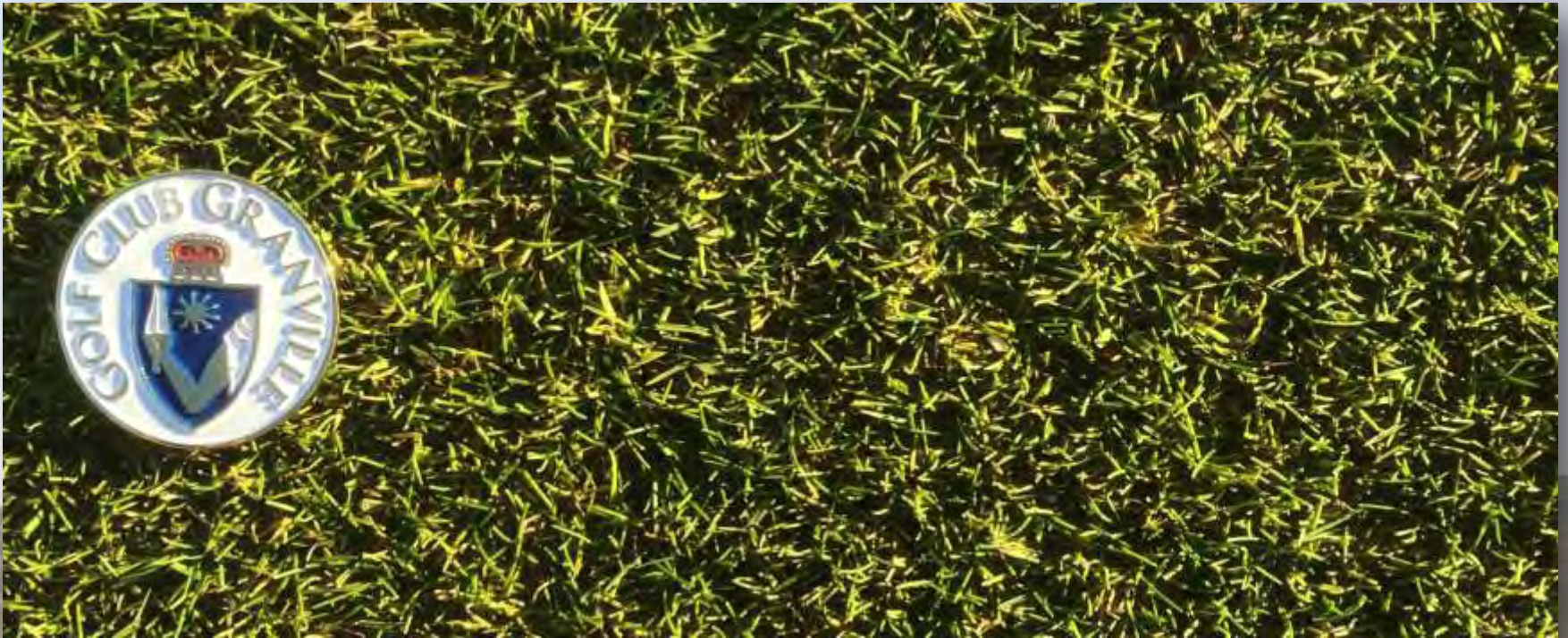


mars 2011



2013

Best year



2015

FESCUE SITUATION

Between 60% (for the worst) and 90% (for the best)

EVOLUTION YEAR by YEAR

profile views



février 2009



février 2010



février 2011

EVOLUTION Year by year

The roots



février 2009



février 2010



février 2014

Practical maintenance

- 0 verticut
- 0 hollow coring
- No cut under 4,5 mm
- Maximum 4 mowing
/week in growing
season



3 to 5 solid tines /year

HOC de 4 à 7,5 mm



130 roulages/an

140 à 175 mow

80 à 120 brush



3000 kg/Ha since 2008

3 to 6 overseed/year



15 à 20 top dressing

Water Reduction de 48 000 à 12 000 m³

Still Far in the will to avoid Poa winning area

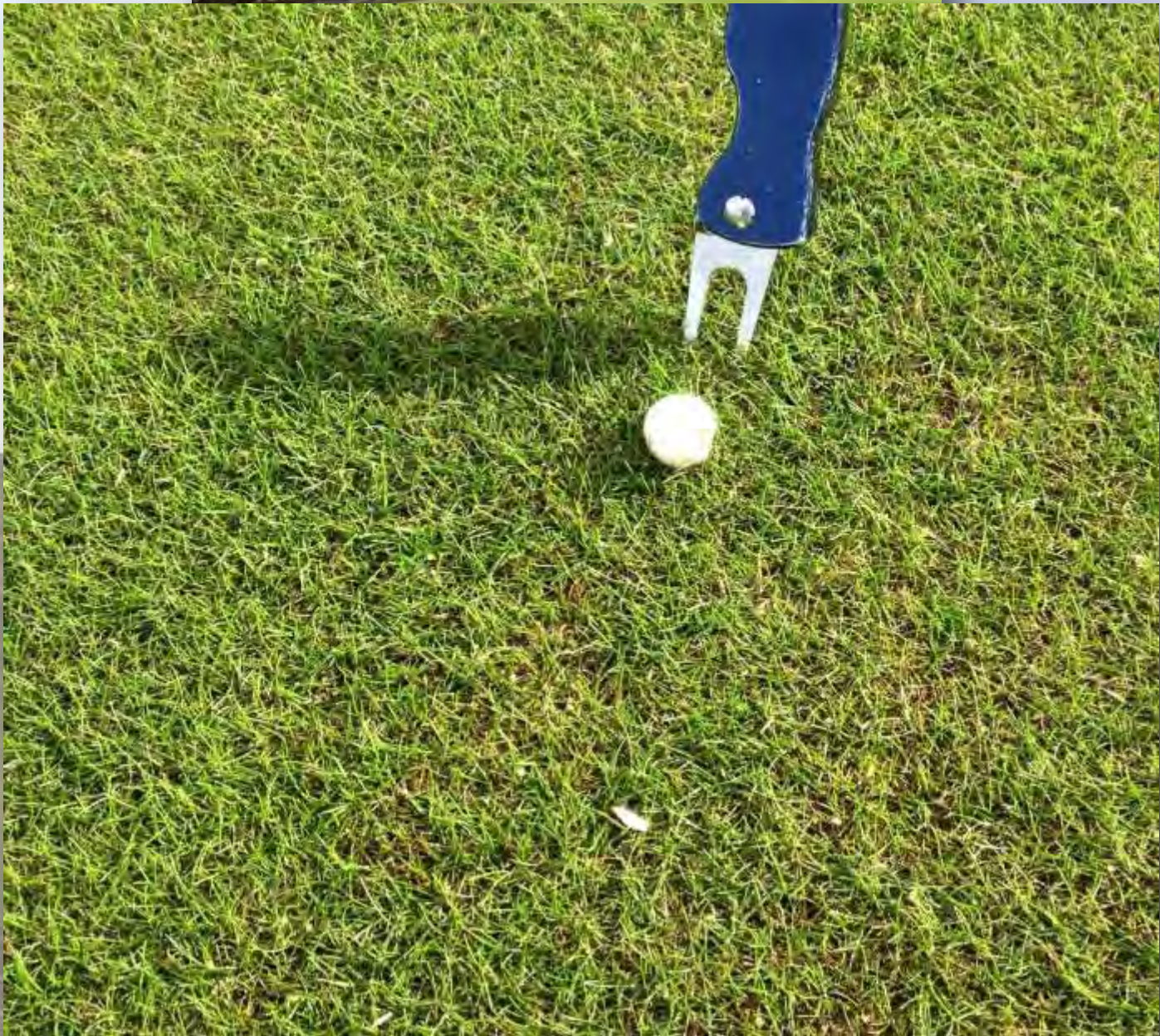


2008 4 attaques (3 types fusar 1 DS) 1 traitement automne



2015

été



Process on fairway since 2011







THE SONS of GOLF

Chris Haspell , Hans Beurling, Ian Tomlinson,

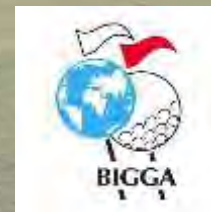
Jan Ebdrup, Per Christensen

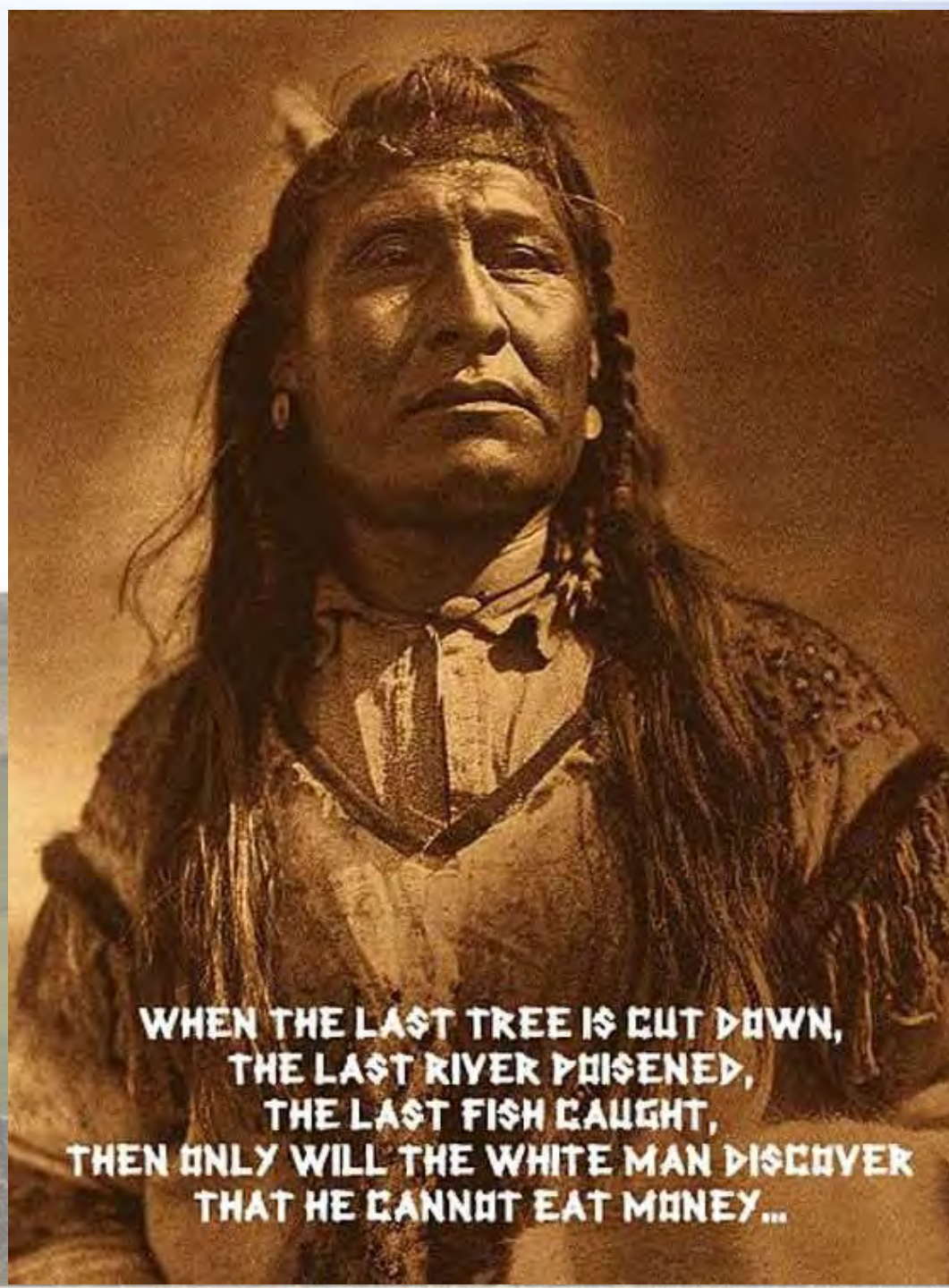
Per Rasmussen and Søren Tømming

From STRI

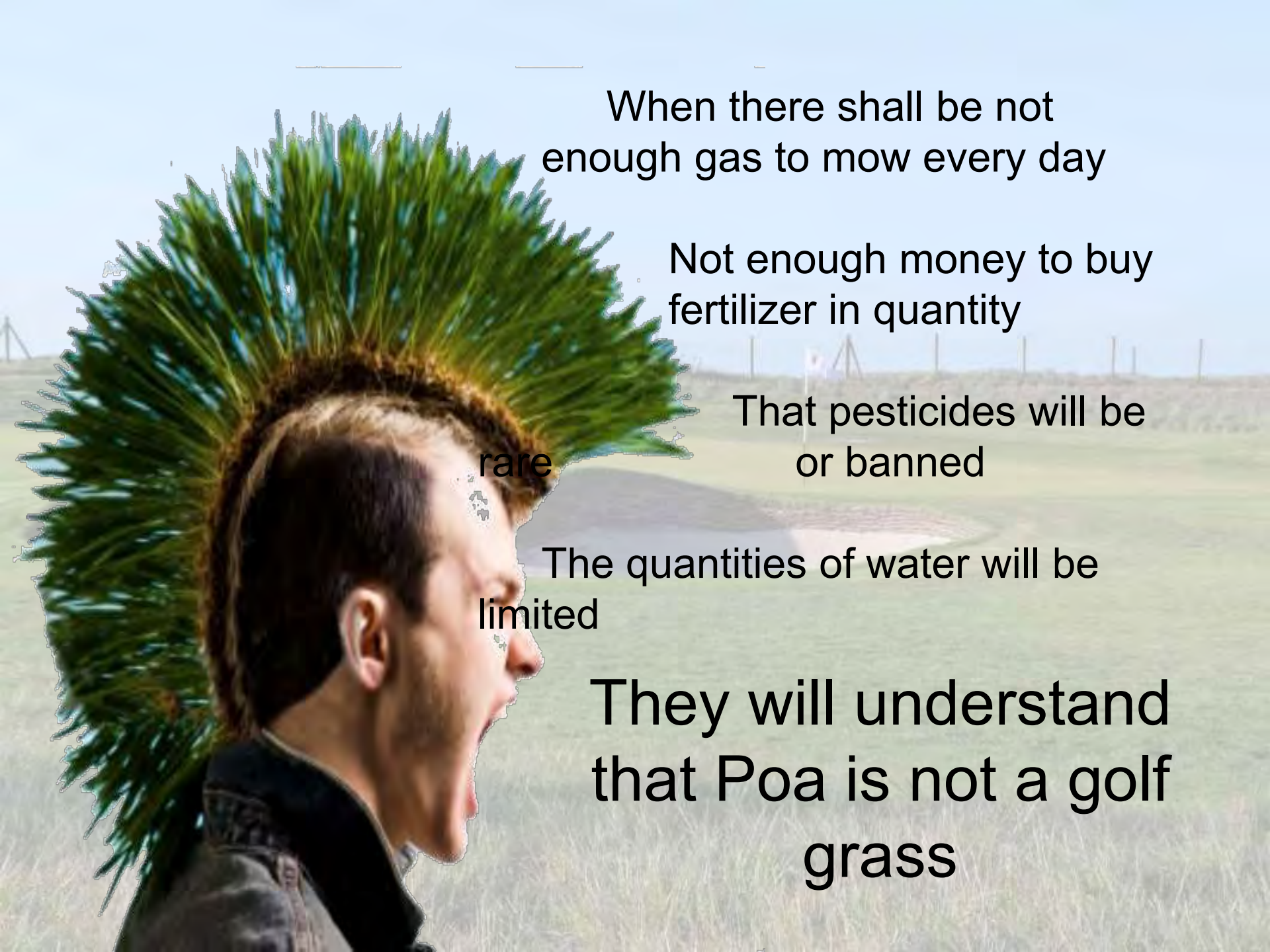
Richard Windows

Henry BECHELET





**WHEN THE LAST TREE IS CUT DOWN,
THE LAST RIVER POISONED,
THE LAST FISH CAUGHT,
THEN ONLY WILL THE WHITE MAN DISCOVER
THAT HE CANNOT EAT MONEY...**

A man with a large, spiky green mohawk made of grass is shown in profile, shouting with his mouth open. He is wearing a dark jacket. The background is a golf course with a green and a sand trap visible under a clear blue sky.

When there shall be not
enough gas to mow every day

Not enough money to buy
fertilizer in quantity

That pesticides will be
or banned

rare

The quantities of water will be
limited

They will understand
that Poa is not a golf
grass

**THANK YOU
for
your attention**

