

Golf Course Quality Lawns and Landscapes

Dave Phipps - Stone Creek Golf Course

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Clair Klock - Clackamas Soil & Water Conservation District

in cooperation with ???



Clair – Introduction

“Soil testing”

“Reading Labels”

Dave – “Turf Management”



????? – “Right Plant in the Right Place”

????? – “Lawn Irrigation and Aeration”



Goals

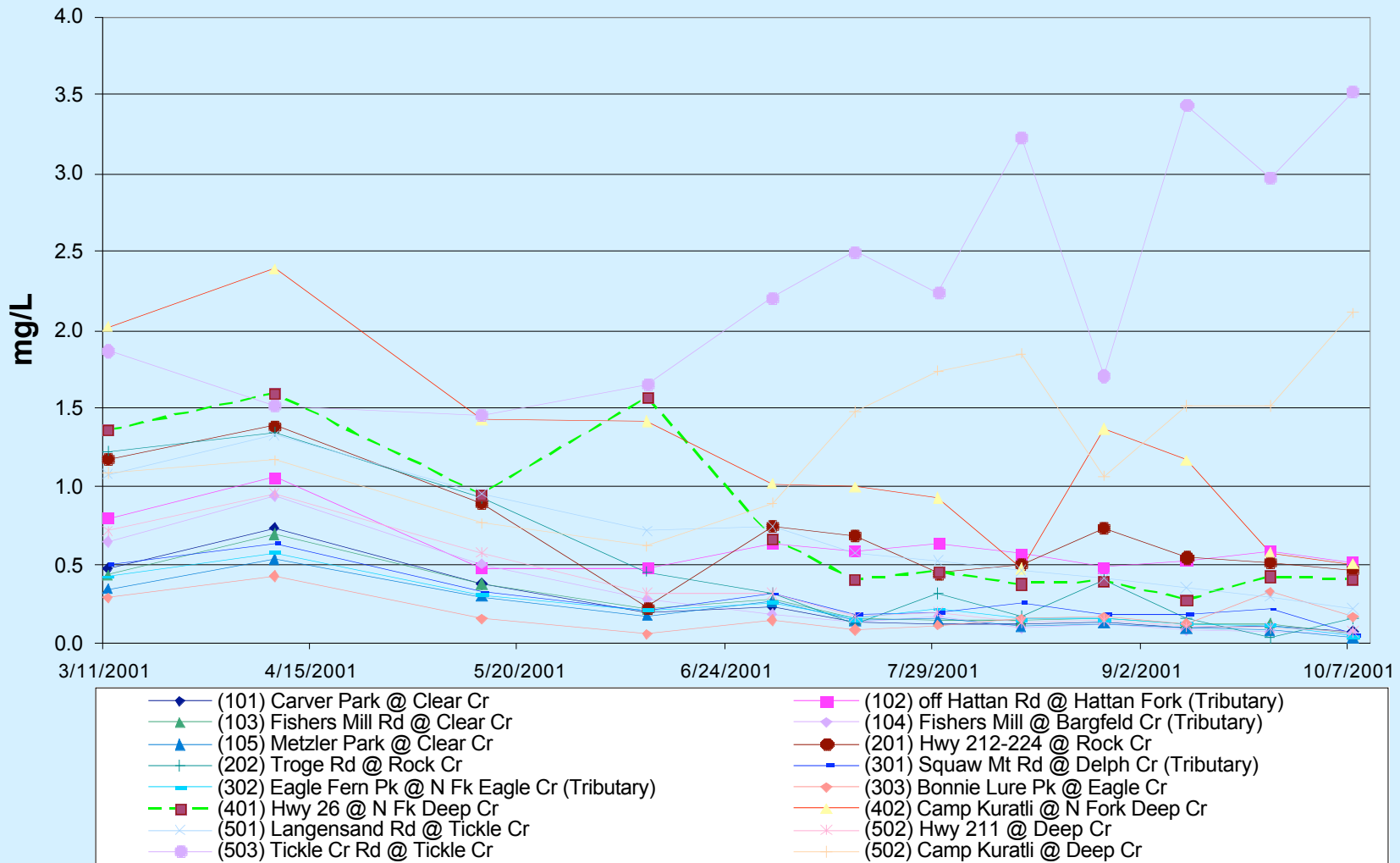
- Have a better looking lawn and landscape
- Cut cost of fertilizers and pesticides
- Cut cost of water
- Less Work
- ???????



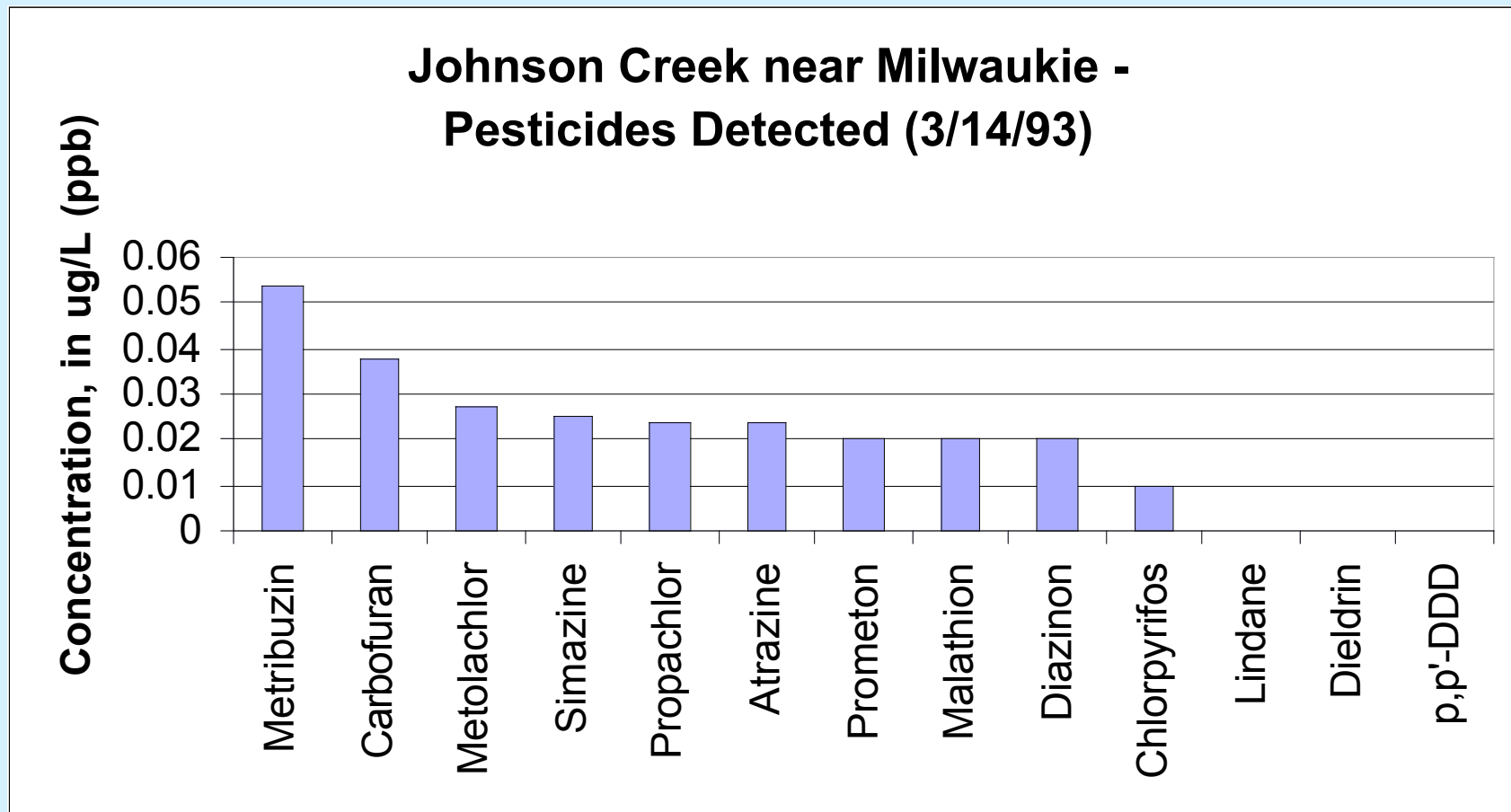
WHY – Conservation



NITRATE CLACKAMAS RVIER WATERSHEI



Pesticides in Johnson Creek



*“Conservation Practices
are the Same*

No Matter What the Size of
the Property”

50x75 foot lot or 500 acre
golf course



Quality Anything!!

Attention to Detail



Living with Your Soil

Soil Preparation

Soil Type

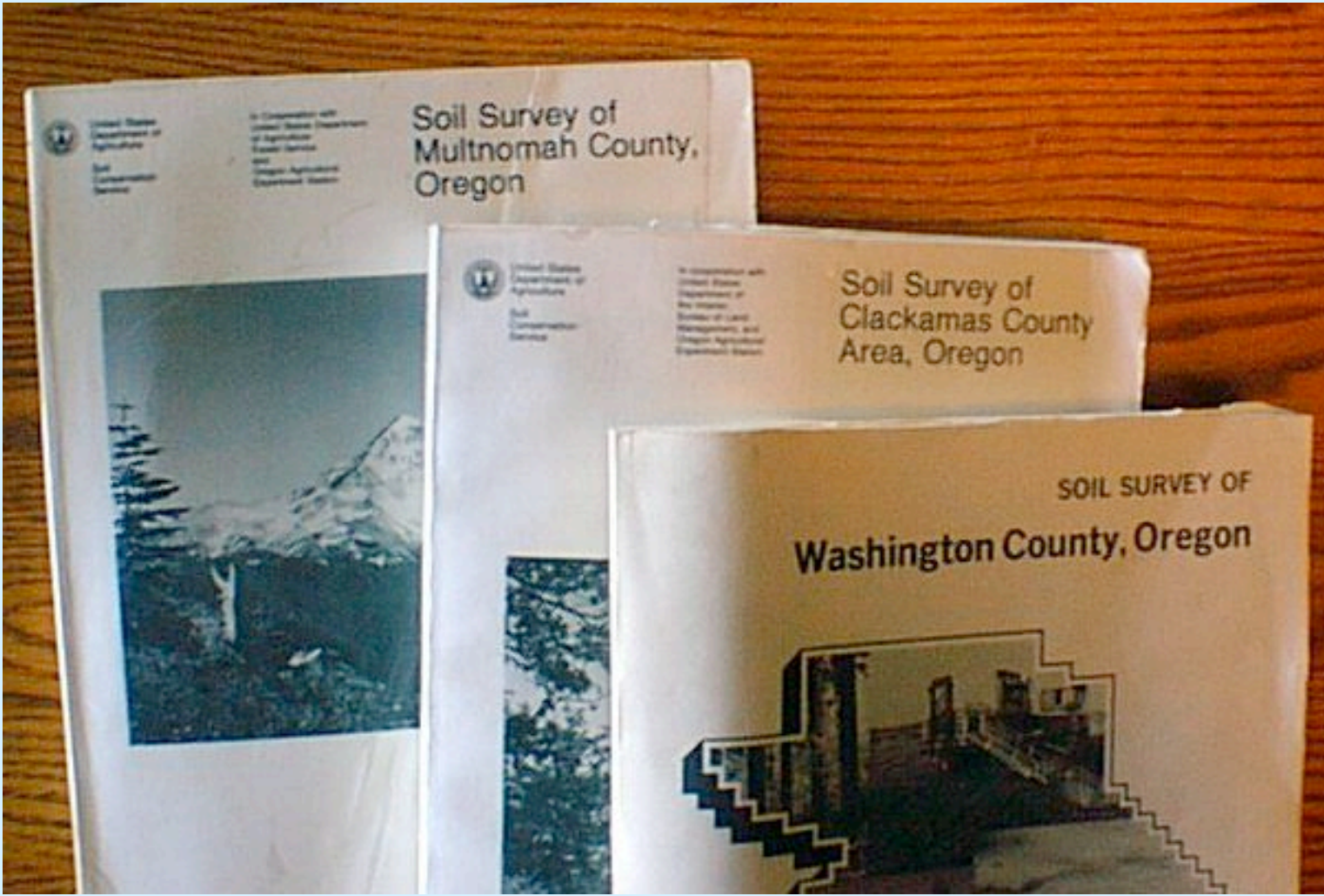


Improving the Soil

Soil Types

- Clay, Loam, Sand
- Infiltration Rates
- Compaction





United States
Department of
Agriculture
Soil
Conservation
Service

In cooperation with
Oregon State Department
of Agriculture
and
Oregon Agricultural
Experiment Station

Soil Survey of Multnomah County, Oregon



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Experiment Station

Soil Survey of Clackamas County Area, Oregon



SOIL SURVEY OF

Washington County, Oregon



Soil Sampling Instructions

Representative sample

Scrap off plant residues

Clean equipment

Stainless steel or chrome

Plastic bag

Clean trowel

Mix thoroughly

Ask for recommendations



Fertilizers and Pesticide Label Reading



Your Health

Your family and pets health

Your lawn and landscape health

General Environmental health

Reading the Fertilizer Label

20 – 20 – 20 (aka N, P, K)

20% Nitrogen by weight

20% Phosphorus by weight

20% Potassium by weight

Therefore 40 lb bag of 20-20-20 equals ?? lbs of each nutrient

$40 \times .20 = 8$ lbs of each nutrient per bag

Values \$\$\$\$

16-16-16 (50#) =
\$9.65

33-0-0-2 (50#) =
\$9.55

46-0-0 (50#) =
\$11.00



Values \$\$\$\$

100/ac, 50/half ac, 25/quarter ac, 12.5/eight ac

50x100 foot lot = 5000 sq ft = 12.5

N/yr – Bag of urea would last 3 yrs.!

And cost \$11.00 instead of \$28 over

3 yr with 16-16-16

Over or under fertilization can make a lawn more susceptible to drought, insect and disease problems.



READ
THE
LABEL

Use the Least Toxic
Chemical



Pesticides

Contact

Residual

Restricted

Mode of Action



Methods of application



Broadcast

Spot

Wipe

Reentry Period

LD 50

metabolites

Half-time

Persistence



Value for the \$\$\$

- *Glysophate*
- Roundup – 41%
- Rodeo – 53%
- Generic – 10 %, 20%
- Check the price



Value for the \$\$\$

Commercial Casoron - 4g = 4% active ingredient

\$98/40 lb bag = 2.37lb

Retail Casoron – 2% = 2% active ingredient

\$15/8 lb bag (15x5 = \$75 x 2(1/2 active) = \$150
for same amount of active ingredient

Resources

Learning Where to Look for What?

East Multnomah SWCD 503.222.7645

julie.dileone@or.nacdnet.net

Clackamas SWCD 503.656.3499

clair.klock@or.nacdnet.net

