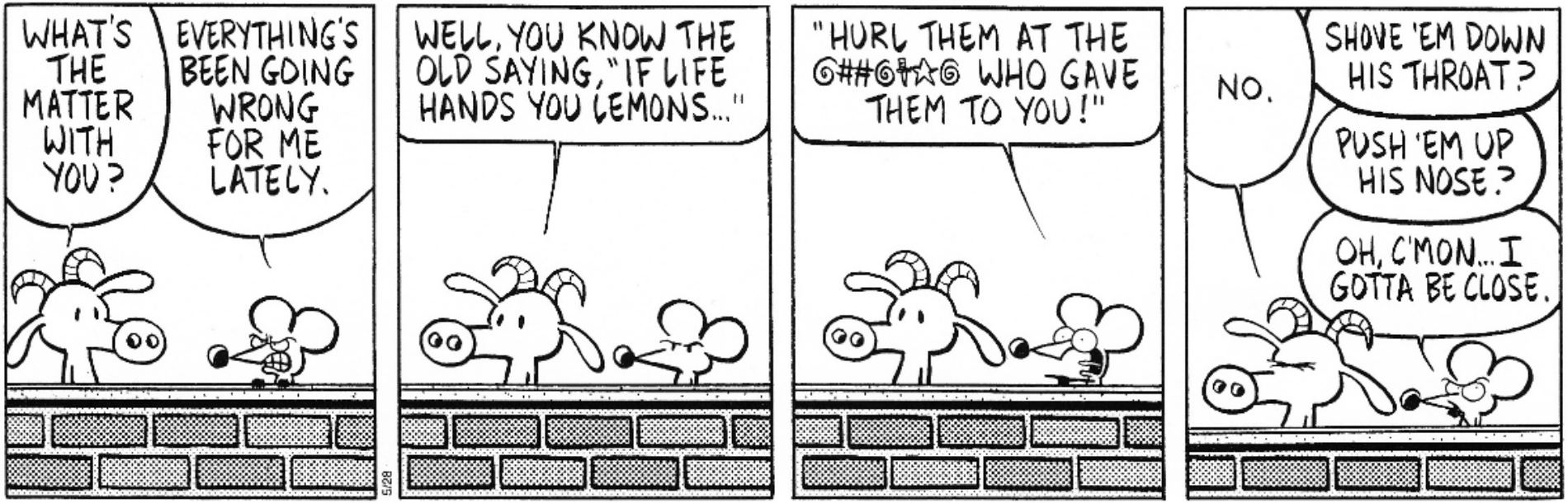
WHAT'S THE MATTER WITH YOU?
EVERYTHING'S BEEN GOING WRONG FOR ME LATELY.
WELL, YOU KNOW THE OLD SAYING, "IF LIFE HANDS YOU LEMONS..."
"HURL THEM AT THE @#@!☆@ WHO GAVE THEM TO YOU!"
NO.
SHOVE 'EM DOWN HIS THROAT?
PUSH 'EM UP HIS NOSE?
OH, C'MON... I GOTTA BE CLOSE.
5/28

Ecological Goods and Services

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Fraser-Harrison Waterways

Fraser Harrison Watershed Stewardship Project

Fraser Harrison Basin Group

Salish Sucker Recovery Implementation Group

Canada

Funded by: Habitat Stewardship Program for Species at Risk

N

Miami River

Maria Slough

Mountain Slough

Agassiz Slough

THE OLD AGASSIZ PLACE
1632

Organizational Behaviour OB

- How can members of an organization be motivated to work toward a common goal?

Forest Landowners

- Freedom to manage
- Access to information
- Financial Incentives

Valuing Ecological Goods and Services

- **$33 trillion a year** (Costanza et al, 1997)
  - Wetlands $15,000/ha/year
  - Forest $1000/ha/year
  - Grassland $232/ha/year

  - Benefits to humans only

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Riparian Areas

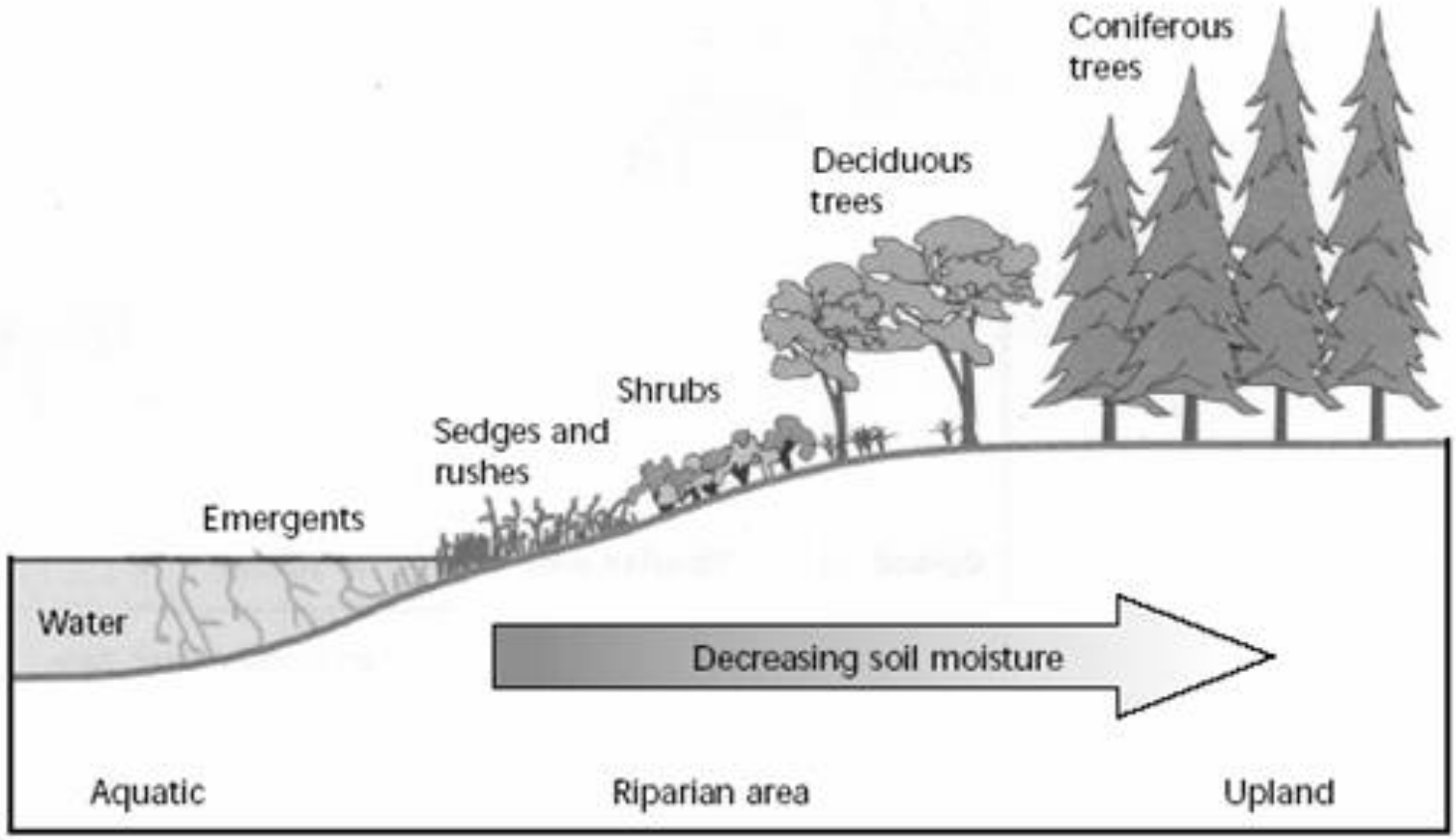


FIGURE 1 *Illustration of the moisture gradient in a typical riparian ecosystem (from Stevens et al. 1995:2).*

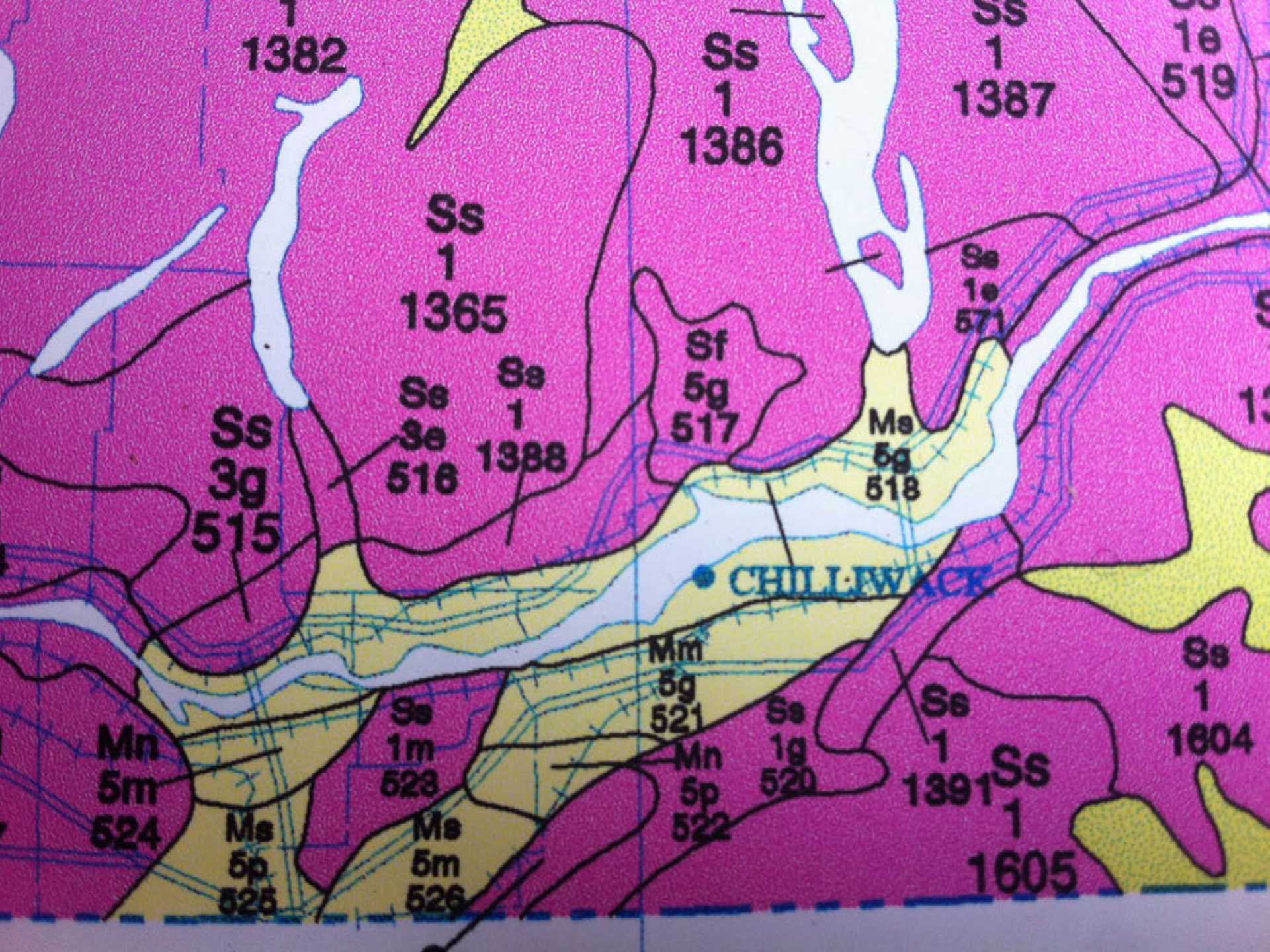
Payments for Lost Productivity

- Forage losses dairy farm
- Replacement $400-$900
- Whatcom County
- Delta Wildlife Trust

Payments for Eco-Services

- Soil protection
- Nutrient filtering
- Shade

- **Soil + nutrients+ sunlight = clogged waterways**
  - Impede drainage
  - Deoxygenated habitat


1
1382
Ss
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1386
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1387
Ss
1e
519
Ss
1
1365
Se
1e
571
Sf
5g
517
Se
3e
516
Ss
1
1388
Ss
3g
515
Ms
5g
518
CHILLIWACK
Mm
5g
521
Se
1m
523
Se
1g
520
Ss
1
1391
Ss
1
1604
Mn
5m
524
Mn
5p
522
Ms
5p
525
Ms
5m
526
Ss
1
1605

Evapotranspiration

- Mixed native forest 20-30%
- Douglas fir forest 40-50%
- Cedar forest 60%

Habitat

- Pollinators
  - Blueberry deficit
- Beneficial predators
  - Insect pests
  - Mosquitoes

Other benefits

- Windbreaks
- Carbon uptake
  - Alberta report
- Cleaner air
- Visual amenities
- Biodiversity and connectivity

Oregon Spotted Frog

Salish sucker

Some final thoughts…

- Pay those who have already done good
- Local administration
- Stress drainage
- Good wetland is not good farmland
- Long-term funding
  - Kootenay Conservation Fund

More information

Fraser Valley Watersheds Coalition
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Using Incentives to Promote Stewardship on Private Forest Land in BC
www.alc.gov.bc.ca/Publications/flr/detmarthesis.pdf

The Value of the World's Ecosystems and Natural Capital
www.uvm.edu/giee/publications/Nature_Paper.pdf

Natural Capital in BCs Lower Mainland
www.davidsuzuki.org/publications/reports/2010/natural-capital-in-bcs-lower-mainland/

Alberta – Ecosystem Services Approach Pilot on Wetlands (January 2012)