

USDA FOREST SERVICE MYSTIC RANGER DISTRICT

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Range Technician
Invasive Species Coordinator
12 March 2015



Mystic



Invasive Plants

Just the Three of us in 2014



2014 Accomplishments

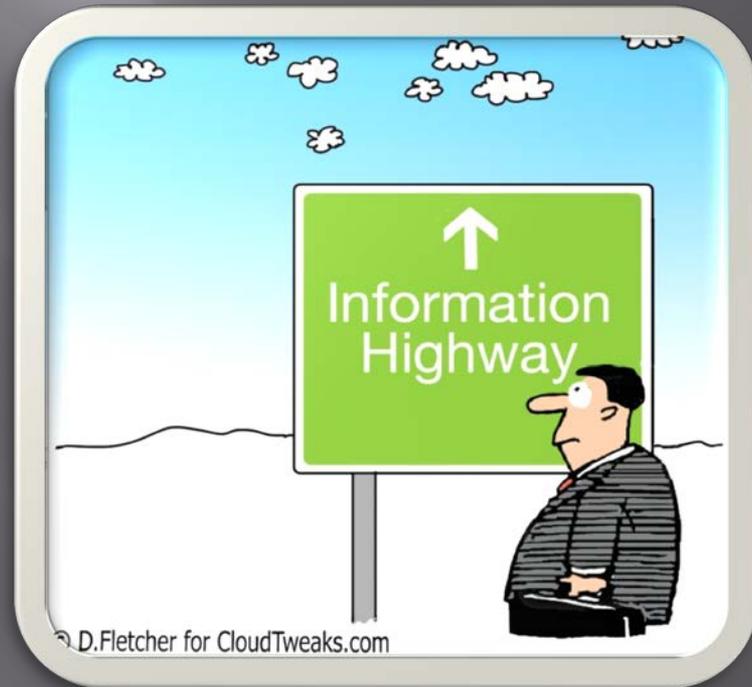
- ▣ Contract Spraying, 891
- ▣ County Spraying, 654
- ▣ Force Account (FA) 299 Acres
- ▣ Biological Control 130 Acres
- ▣ Total 1,974 Acres Treated
- ▣ Force Account (FA) PM 250 Acres
- ▣ Monitoring Force Account (FA) 902 Acres on
12 Timber Sale Areas

2014 Biological Releases

- ▣ BIOLOGICAL SITES:
- ▣ Apathona Mix, Root mining flea beetles, 11 Releases
- ▣ Hadroplontus litura, Canada thistle stem-mining weevil, 12 Releases
- ▣ St. Johnswort: Chrysolina quadrigemina, Klamath weed beetle, 4 New Sites

Death By Power Point

The Information Cloud



Information Highway Knowledge is Power



Do that Homework

- ▣ Begin to look for the unusual.
- ▣ Is there a something that does not look right or does not fit in with the rest of the picture?
- ▣ Does it seem to take over an area?
- ▣ When you pull or clip it, does it seem to have more sprouts?
- ▣ Difficult to control?
- ▣ Can you I.D. it from a book?

EARLY DETECTION

- ▣ Adds to a better control
- ▣ Easier to attack small plots
vs. two acres
- ▣ Less chance of spreading
- ▣ Cheaper in the long run

Begin to look for the unusual plants.



Is there a plant that does not look right or does not fit in with the rest of the picture?



Does it seem to take over an area?



When you pull or clip it, does it seem to have more sprouts?

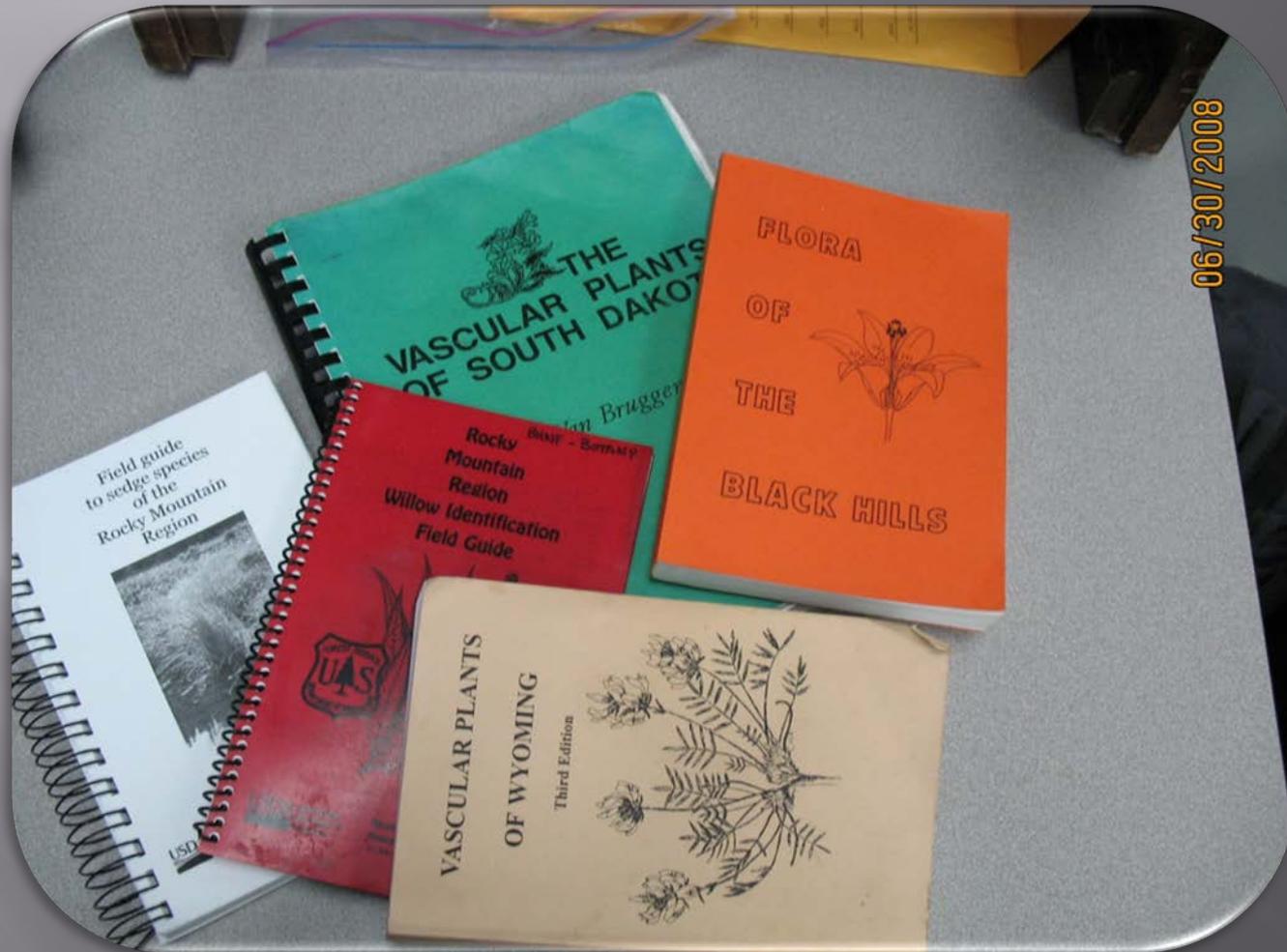


Difficult to control?



I wonder why??

Can you I.D. it from a plant book?



What brings you here??

- ▣ To pick up some new information?
- ▣ To see people you have not seen since the last workshop?
- ▣ For the free snacks and door prizes?
- ▣ In vehicle of some kind, i.e., car, truck!
- ▣ **That brings us to:**

The Family Vacation



All the way to California



And when you come home?



**YEAH
IT'S THAT
BAD**

this in
back yard

Then you see



So, what do you want to do??

Punch Someone in the face!



Maybe you go to the East Coast?

Emerald Ash
borer



Gypsy
Moth



That Brings us back to:

KNOWLEDGE IS
POWER

Situation Awareness

- ▣ Keep your eyes open to invasive species.
- ▣ Plants Insects Animals



, home, or even in

magazines.

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INVASIVE WEED SPECIES CAN BE PROBLEMATIC and costly to control. It is more cost effective to prevent new invasions and eradicate small patches, than to spend money trying to control or eradicate large existing patches. Therefore, it is necessary to understand how weeds spread in order to prevent new invasions. The abundance of weeds along many roads suggests that vehicles may be acting as dispersal vectors. In fact, studies have found that passenger vehicles can carry anywhere from three to 135 seeds per vehicle.

Vehicles have managed to spread over 500 different plant species. Vehicles are most likely picking up seeds from the road or roadside and then spreading them farther along the road. If vehicles transport seeds long distances, they may carry weed seed to areas where they do not yet occur. Once growing along roadsides, other types of dispersal may move the weeds farther into the surrounding area. The pervasiveness of roads means that vehicles could be a major mode of plant dispersal.

Carrying those weed seeds?



Wash those vehicles and clean off your clothing and shoes!



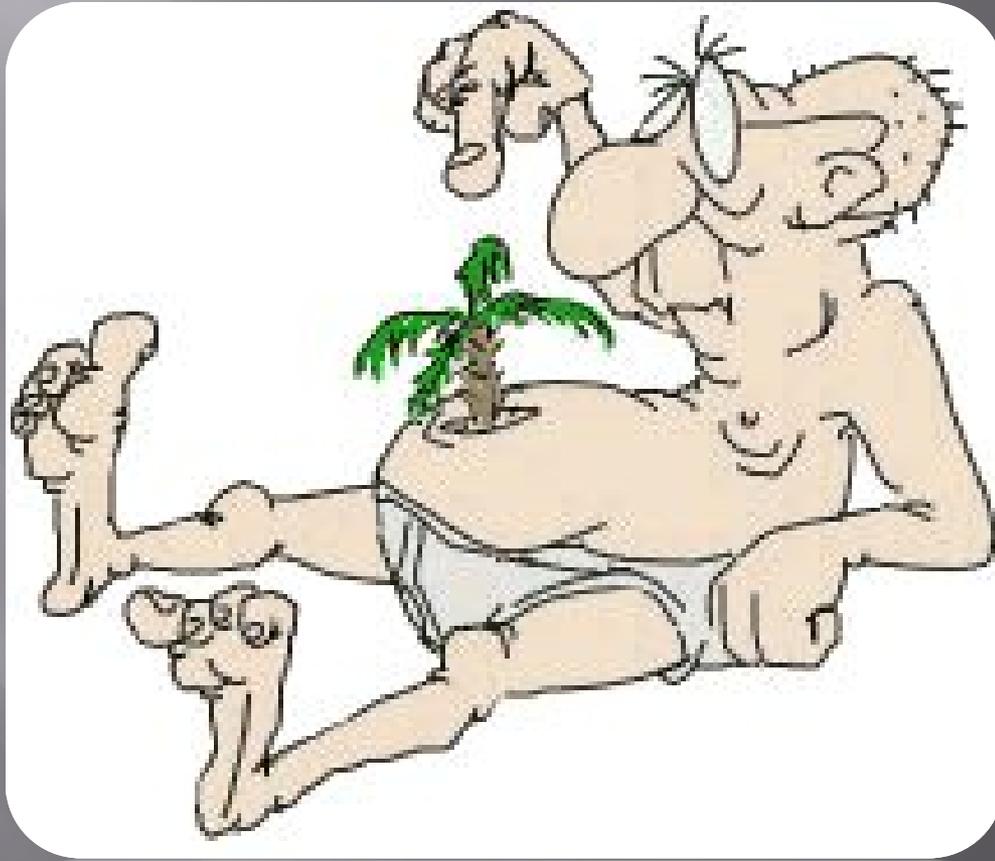
Make sure you get underneath
the vehicles!!



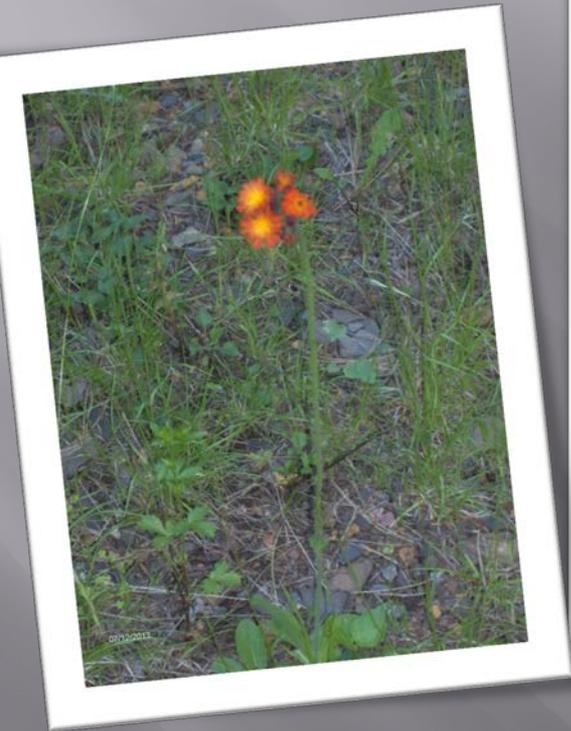
Check your pets



Invasive plants can grow almost
anywhere!



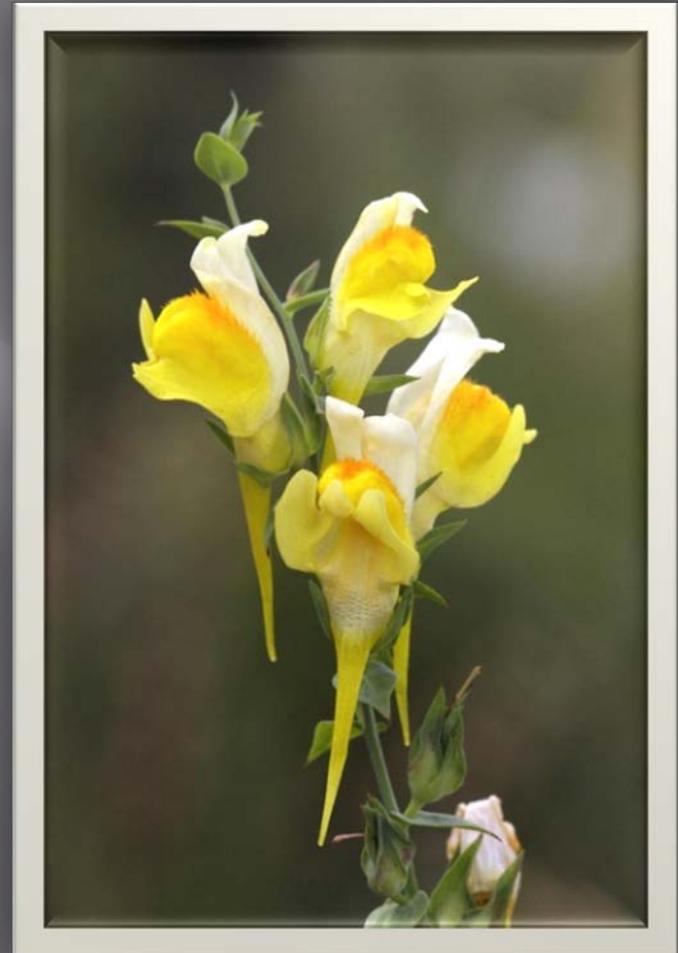
New Weed Showing Up in the Hills - Orange Hawkweed



Invasives on the Radar for South Dakota



Broomleaf toadflax *Linaria Genistifolia*



Yellow Flag Iris

Iris pseudacorus



White horehound *Marrubium vulgare*



Poison hemlock

Conium maculatum



False chamomile *Matricaria perforata*



Flowering Rush

Butomus umbellatus



Rush Skelton weed *Chondrilla juncea*



Meadow hawkweed

Hieracium caespitosum

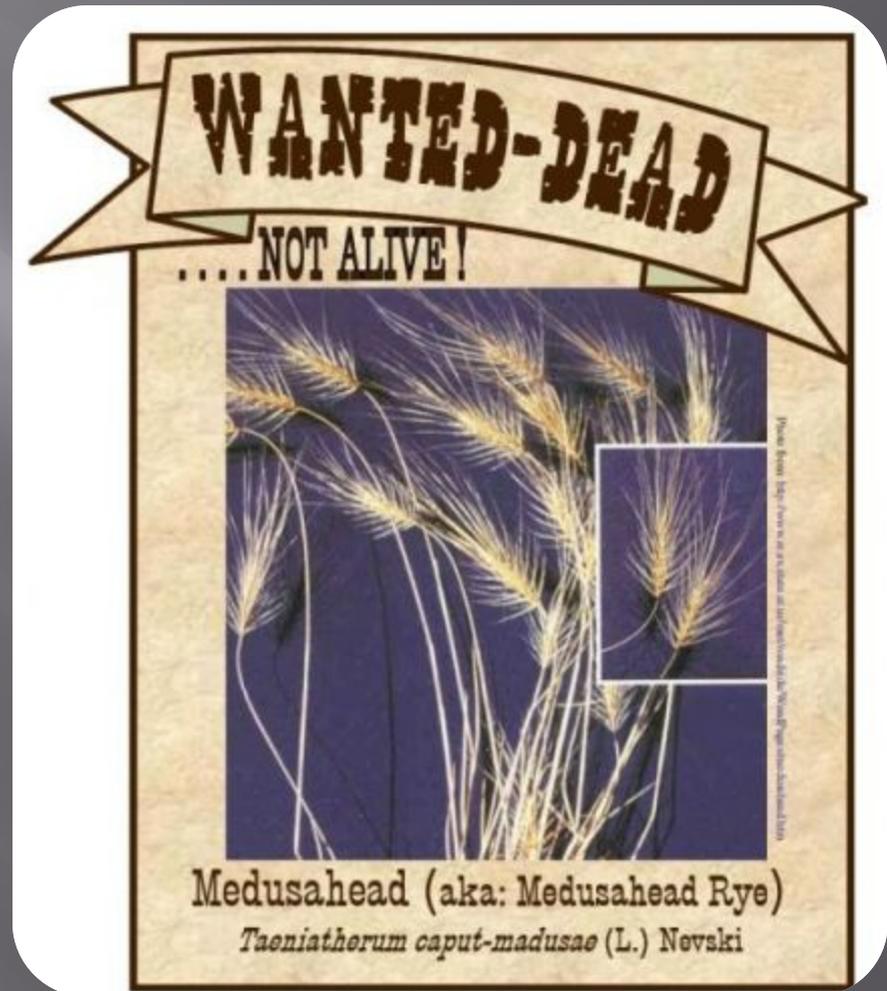


Dyers woard *Isatis tinctoria*

Will it take
over??



Medusa head *Taeniatherum caput-medusae*



Erect hedgeparsley *Torilis japonica*



Oriental bittersweet *Celastrus orbiculatus*



Dog-strangling vine *Cynanchum rossicum*



Black swallow wort *Cynanchum louiseae*



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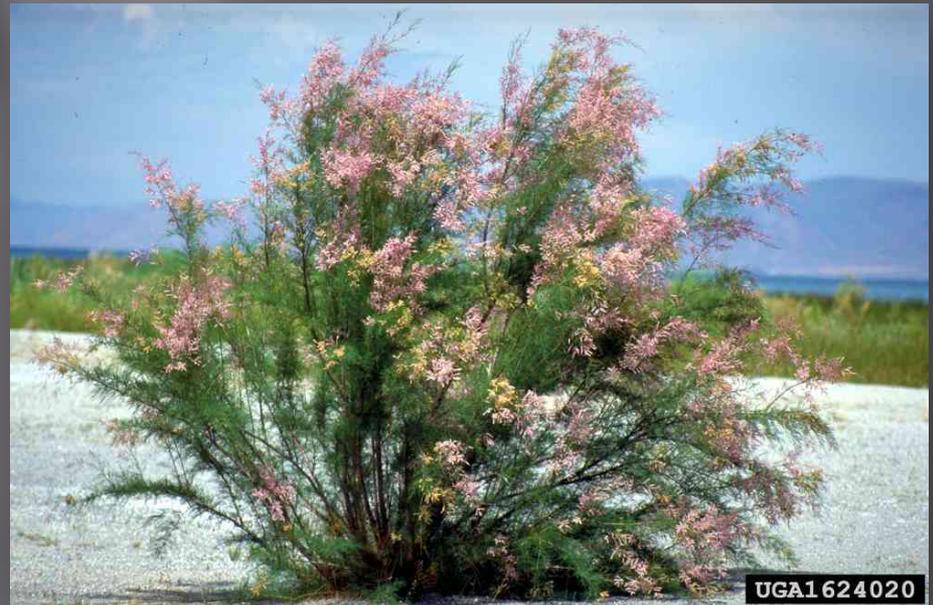
Climbing milkweed vine *Cynanchum arizonicum*



Eurasian common reed *Phragmites australis* subsp. *australis*



Saltceder *Tamarix spp.*



Aquatic Invaders



**STOP
HIT**
Prevent the
Clean
www

**BALLAST WATER
MANAGEMENT**
Combating Aquatic Invaders



WARNING



The Invading Species Hit Squad

education • awareness • monitoring initiatives



**Call the Invading Species Hotline 1-800-563-7711
to find out if there's a member of the Hit Squad near you!**



Didymo (Rock Snot) *Didymosphenia geminata*



WARNING



The invasive algae "didymo" is present in this river

STOP ROCK SNOT

After leaving this water:

CHECK - Remove all visible clumps of algae and plant material from fishing gear, waders, clothing, water shoes and sandals, canoes and kayaks, **and anything else** that has been in the water.

CLEAN - Using HOT tap water and lots of soap: **Scrub** boats and other "hard" items thoroughly; **Soak** clothes, felt-sole waders and other "soft" items for **30 minutes!!!!**

Get more information:

In Vermont, contact the VT DEC at 802-241-3777

or visit www.anr.state.vt.us/dec

In New Hampshire, contact the NH DES at 603-271-2248

or visit www.des.state.nh.us/wmb/exoticspecies

Please do your part - Don't Spread Didymo!



Brittle naiad *Najas minor*



Curlyleaf pondweed *Potamogeton crispus*



Eurasian Water Milfoil *Myriophyllum spicatum*

Eurasian Water-milfoil

Red to olive-green, branching stems.



Feathery, dark green leaves, 1"-2" long.

Forms dense mats at water surface.

Flora Guide
F.J. Barnefeld



UGA1624031

Asian Clam

Corbicula fluminea



New Zealand mud snail *Potamopyrgus antipodarum*



Zebra Mussel

Dreissana polymorpha



Quagga Mussel *Dreissena rostriformis bugenis*

ZEBRA MUSSEL



QUAGGA MUSSEL



Rusty Crayfish

Orconectes rusticus



Rusty Crayfish WATCH



Northern Snakehead *Channa argus*



Giant Snakehead

Channa micropeltes



European Rudd *Scardinius erythrophthalmus*



Eastern heath snail *Xerolenta obvia*



There is a native species, but it does not climb!



Have to have a pie chart!

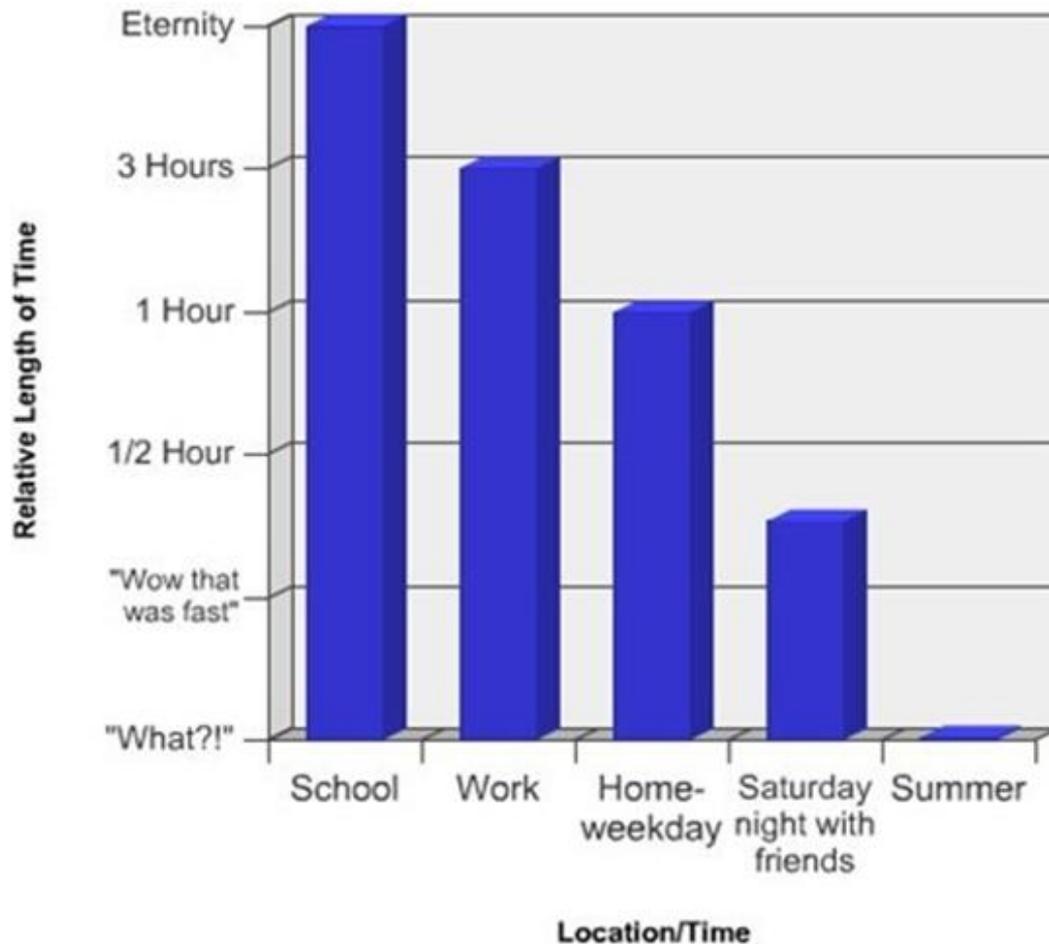
What are you doing right now



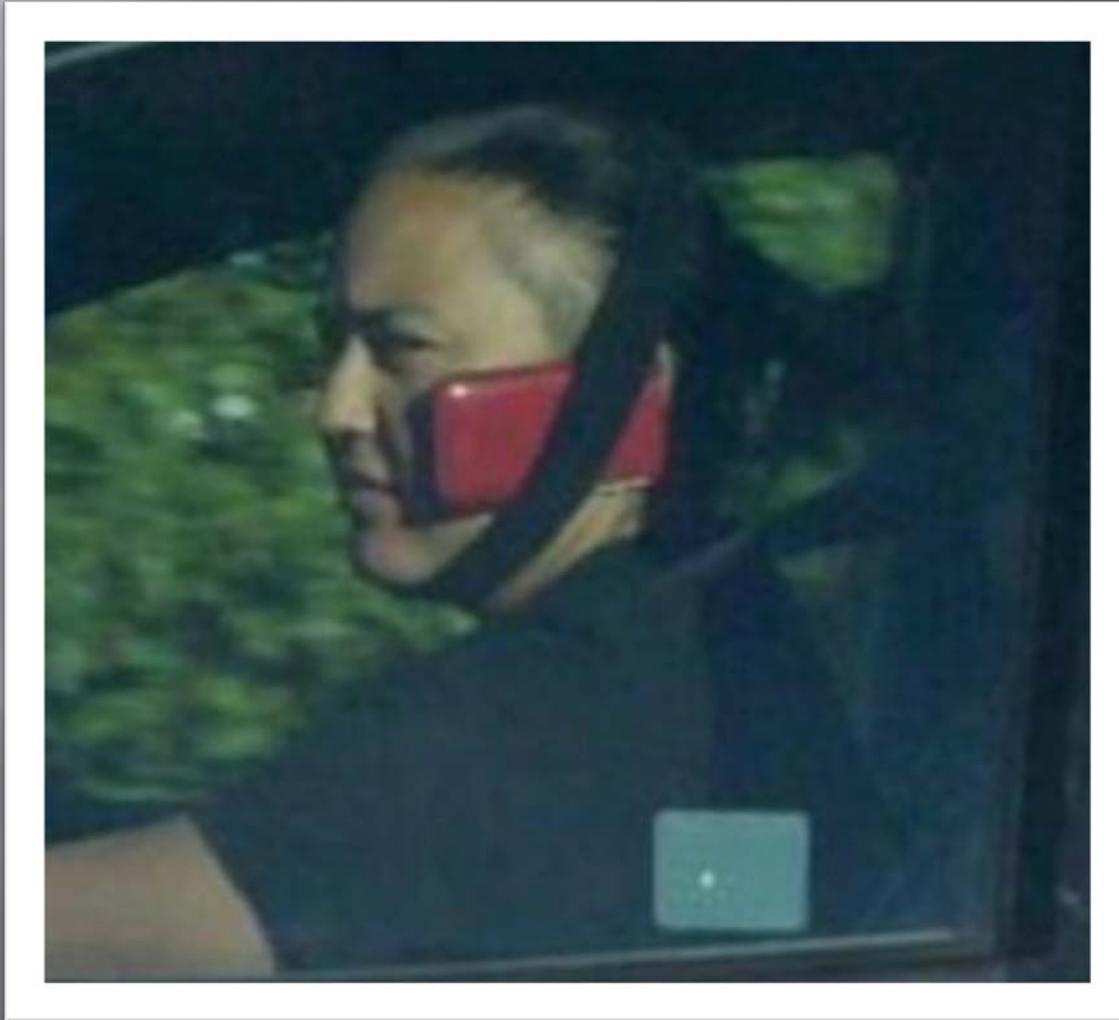
 reading this

Have to have a Bar Chart

What 1 Hour Feels Like



So who are you going to call??



Call!!!

- ▣ Your county Weed and Pest Supervisor or the South Dakota Department of Agriculture.
- ▣ Get positive Identification of the plant or insect.
- ▣ Get a location
- ▣ Take pictures of the items and area where found.
 - ▣ Documentation, Documentation, Documentation.

Acknowledgements

- ▣ CJ from the Wall Ranger District
- ▣ CloudTweaks.com
- ▣ Google Images
- ▣ Purdue University
- ▣ UGA Photos
- ▣ Ian Foley photos
- ▣ Gary Fewless photos
- ▣ Wikipedia
- ▣ The people of the Mystic RD

Any Questions??

Thanks for your time

