

2008 ARRI Conference

August 5-7, 2008



A landscape photograph showing a grassy hillside with scattered trees and a clear blue sky. The text is overlaid on the image.

What is FRA?

**There are differing thoughts on
this!**



Forestry Reclamation Approach

**Frequent Regulatory
Aggravation**

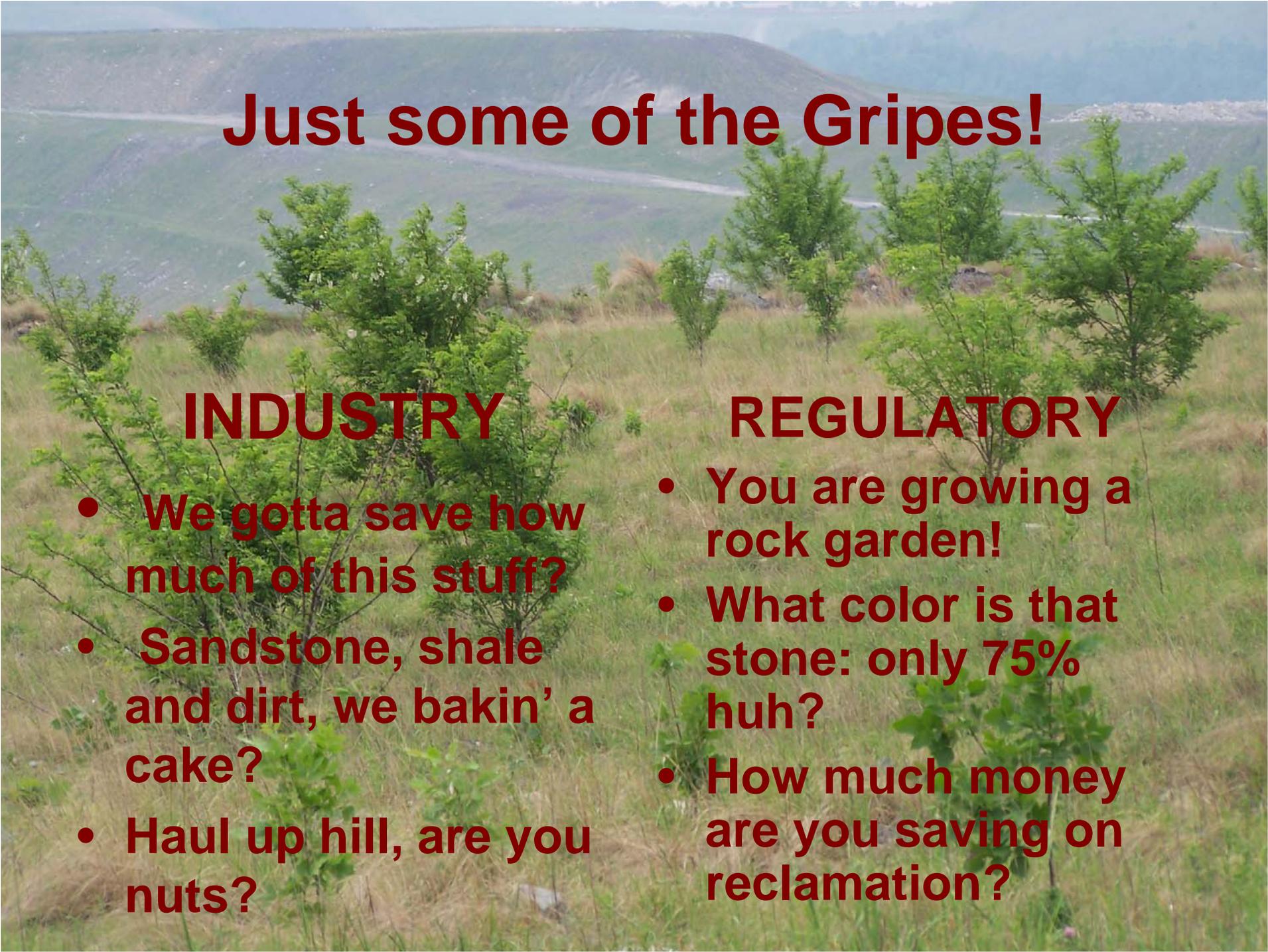


***This FRA stuff is
for the BIRDS!***

**A lot of folks have worked hard
to change this perception**

A photograph showing a person from the waist down on the right side, wearing a blue long-sleeved shirt and light-colored cargo pants. The person is standing in a field of tall, dry, yellowish-brown grass interspersed with green grass and several large, grey rocks. In the foreground, a small, thin tree branch with numerous small, light pink blossoms is visible. The text "Our goal is to grow trees!" is overlaid in the center of the image in a bold, red, sans-serif font.

Our goal is to grow trees!



Just some of the Gripes!

INDUSTRY

- We gotta save how much of this stuff?
- Sandstone, shale and dirt, we bakin' a cake?
- Haul up hill, are you nuts?

REGULATORY

- You are growing a rock garden!
- What color is that stone: only 75% huh?
- How much money are you saving on reclamation?

**Think we just take a
whoopin' and go home?**



(I couldn't resist this one, Roger!)



Ok folks, let's get
out there and
find our rooting
medium!

Izzy must have been a
regulator in a past life!

NO, we gitter dun!



We define what we have!



**Test holes show
average of about 20''**

7.6.c.1; Except for valley fill faces, soil or soil substitutes shall be redistributed in a uniform thickness of at least FOUR FEET across the mine area.

**So we have about 20" in
our region, but we need
48"**

05/05/2006

7.6.c.2 The use of topsoil substitutes may be approved by the Secretary providing the applicant demonstrates: the volume of topsoil on the permit area is insufficient to meet the depth requirements of 7.6.c.1





**Remember, we have about
20"**

**How do we get a suitable
rooting medium?**

We build it!



This is where the fun starts!

- **What if the weathered stone is potentially toxic?**
- **What if it's not brown?**
- **How do we manage mixing?**



“You call that a medium?”

**Sampling shows the
best horizons; looks
can be deceiving**



Don't be fooled, this is not just a pretty face!



**Oh No, not another
inspection!**



We finally have things going our way cause these guys like it, right?



07/13/2005

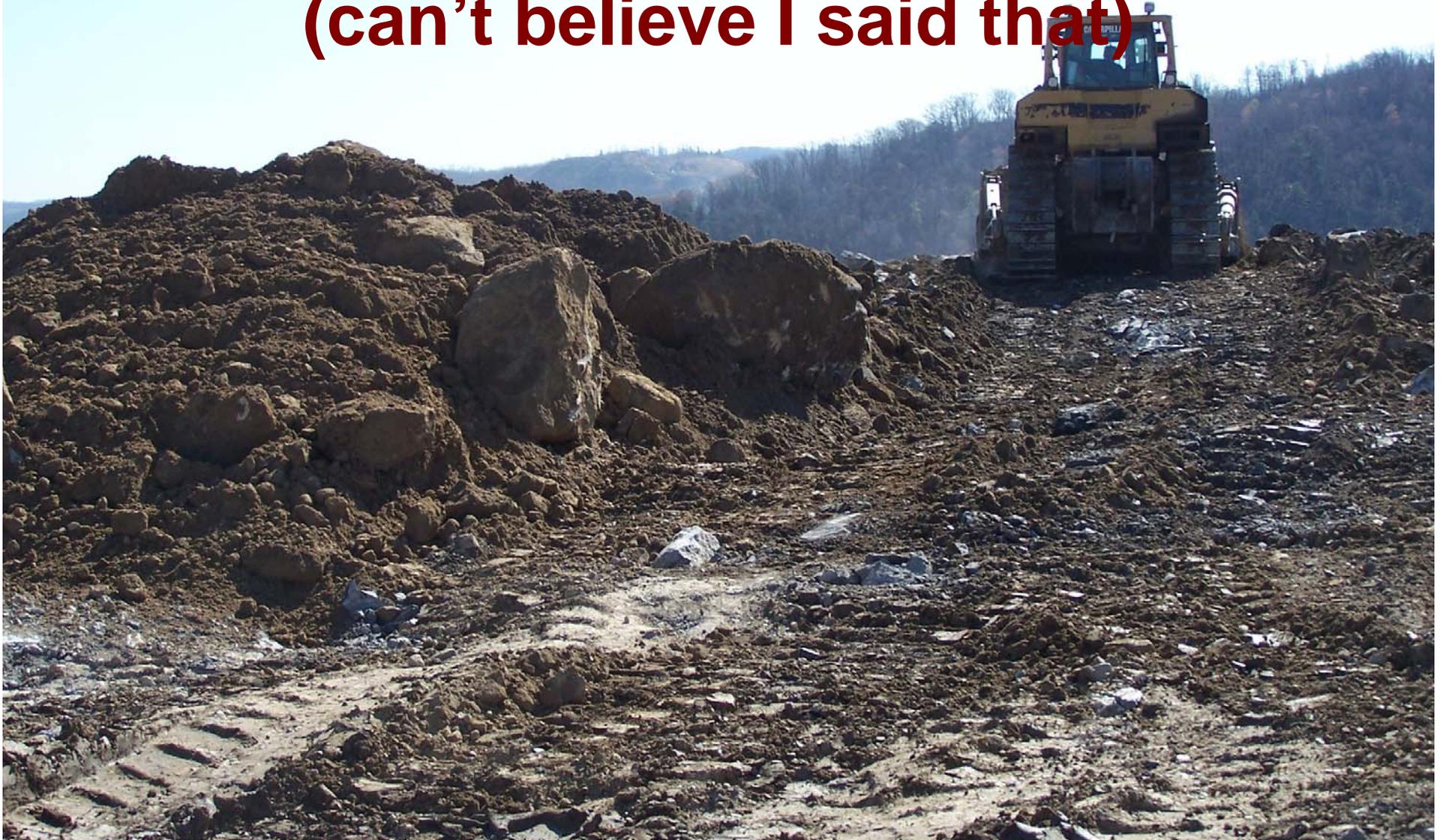
Which will wear out first; the dirt or the tires!





**Only thing this is gonna grow
is hemorrhoids!**

**Regulations are written to HELP
insure success, not prevent it!
(can't believe I said that)**



**And everyone plays a role in the
success, but....**



EVERYONE must be willing to use a scientific approach, and a little common sense, because we are all working for the same goal, which is.....



09/23/2005

**Trees
(first year)**



Trees (18 months)



Trees (2 years)



TREES! (3 years)





and More TREES!

A man wearing a camouflage jacket and a green cap stands in a forest, leaning against a large tree trunk. The tree trunk is heavily covered in graffiti, including names and dates. The man has his hand pressed against the bark and is looking towards the camera with a slight smile. The background shows other trees and a forest floor covered in fallen leaves.

WOW!

**(Ok, maybe I went a little
overboard here!)**

we can also educate,



Give a little direction, if needed



**Maybe get a little recognition for
the effort,**



Ain't that sweet!



A photograph of a field with tall grasses and several young trees growing in the background. The trees are green and appear to be in the early stages of growth. The grass is a mix of green and brown, suggesting a natural, uncultivated area. The sky is a pale, overcast blue.

And grow TREES!

Questions?