Grass-Cast knows

Total Production Loss

<u>not</u>

Grazing Loss

Average Year
- **1000** pounds per acre
- Leave ½ → leave 500 lbs
- Take ½, but half of that gets trampled, so you really get to take ¼ = **250 lbs**

Drought Year (30% less)
- **700** pounds per acre
- If still leave 500 lbs...
- 200 lbs left to take, but half gets trampled, so you really get **100 lbs**
- 100 lbs vs. 250 lbs =
- A **60% grazing loss**
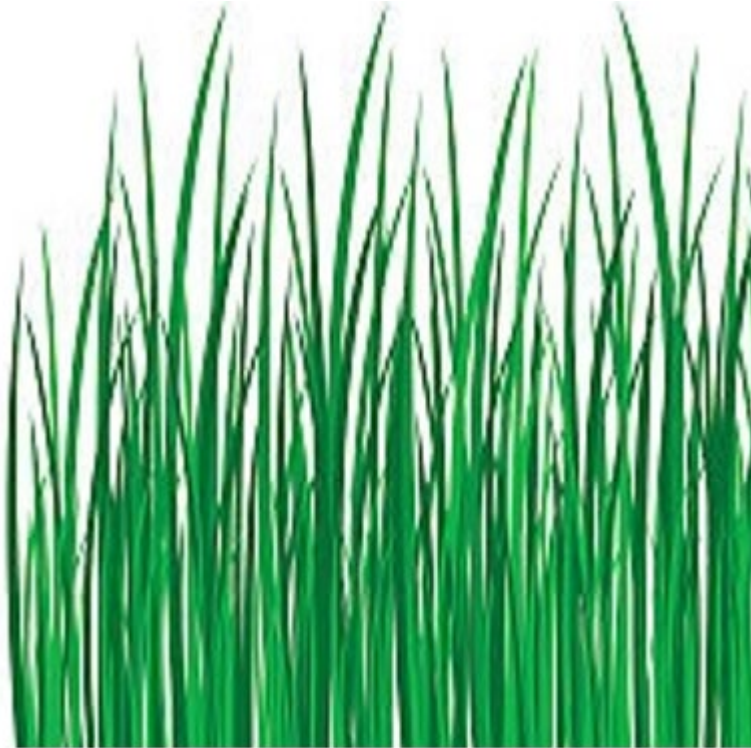- Which is >> than G-C's 30% total prodc'n loss

Grass-Cast knows

Total Production Loss

<u>not</u>

Grazing Loss

Average Year
- **1000** pounds per acre
- Leave ½ → leave 500 lbs
- Take ½, but half of that gets trampled, so you really get to take ¼ = **250 lbs**

Drought Year (50% less)
- **500** pounds per acre
- If still leave 500 lbs...
- **0 lbs** left to take, so you really get **0 lbs**
- 0 lbs vs. 250 lbs =
- A **100% grazing loss**
- Which is >> than G-C's 50% total prodc'n loss

Grass-Cast knows

Total Production Loss

<u>not</u>

Grazing Loss

Average Year
- **1000** pounds per acre
- Leave 400 lbs **(*less than ½*)**
- Take 600 lbs, but half of that gets trampled, so you really get to take **300 lbs**

Drought Year (15% less)
- **850** pounds per acre
- If still leave 400 lbs...
- **450 lbs** left to take, but half gets trampled, so you really get **225 lbs**
- 225 lbs vs. 300 lbs =
- A **25% grazing loss**
- Which is >> than G-C's **15%** total prodc'n loss

Grazing loss, relative to G-C's estimate, depends on **how much a rancher leaves for conservation**. If they "leave **nothing**," then grazing loss **= G-C** estimate. If "leave **half**," then grazing loss **= twice** G-C estimate. If "leave something **less than half**," then grazing loss is something less than 2X the G-C estimate.

Grass-Cast

- *Estimates* <u>total</u> production
- Final forecast isn't ground-truthed in <u>real time</u>
- Likely UNDER-estimates grazing losses, *if* rancher "leaves some"
- Accuracy = 60 – 80%
  - Nearest NWS COOP station?
  - Data interpolated between
- Works better in some places than others