

1992

LOCATION	BLOCK	TRANSECT	PLANT	CULM LENGTH	# SEED HEADS	CULM WEIGHT	# SEEDS	SEEDS WEIGHT	# CULMS
----------	-------	----------	-------	-------------	--------------	-------------	---------	--------------	---------

## LABELING

SP = Seed Production

ESA = Location

B1 = Block #

7 = Transect

P2 = Plant #

All Labeling the same for Biomass & Inflorescence  
only Biomass will be labeled biomass.

## (9) 10 Locations

ULM

- 3 blocks at each location
- 3-4 transects at each block
- 8 plants along each transect.

should be approx 960 envelopes

For Inflorescence/culm

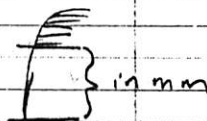
## Biomass - 10 Locations

- 10 plants each location

100 Biomass

## Steps for culm Inflorescence:

1. meas. culm length in mm



if 2 Inflorescences  
meas. to top of base  
seed head.

2. Overweight out sample

- record wt &amp; # of culms

3. save inflorescence.

4. Label envelope with (4) & cut inflore off & put back in envelope & save for seed extraction.  
- seed cut, later.

1. Biomass envelopes all labeled as biomass.

Biomass

2. separate between old dead = gray color  
- throw out old dead
3. Save the rest & put back in envelope.  
- any green (living) mat. } save  
- yellow material }

## 10 Locations

• ESA

• HG (Heavy Grazed)

• 4G &amp; 6G (grazing strip)

• Mat (station) - 4G

• Mat (station) - 6G

• 2IN - Grazed

• 2IN - ungrazed

• Owl Creek

• 23 &amp; 35

• Double Cantera

• 2INGZ

• 2INUG

• OC

• RDC

• SEC25

Date: Tue, 15 Sep 92 08:46:58 MDT  
From: deb@aristida.CFNR.ColoState.EDU (Deb Coffin)  
To: barb@picea.CFNR.ColoState.EDU  
Subject: Re: Message from Judy

Judy,

The field samples should be airdried for seed material for several days and oven-dried at 60 for biomass material for several days.

→ Is 55°C O.K?  
That's what the ovens  
are set at.

The culm weight includes the inflorescence and stalk of the plant.  
You are correct- only the inflorescences are saved for further processing.

Let me know (through Barb) if you have more questions.

Deb

→ Do the Biomass or  
"clipped" samples get  
measured for culm  
inflorescence also?  
before they are oven-dried &  
sorted for Biomass. They seem  
to be included in the total of 100g  
plots that are included in the total  
air-drying sampling.

→ Clones - as in field  
or more  
particular?  
as to when the exact stem  
segments?

It looks as though  
the clipped culms should  
be measured & inflorescences  
saved and then, as a  
separate step, the  
Biomass of the  
remaining plant would  
be sorted & weighed.

If you could write up a flow  
diagram for the whole procedure  
it would be helpful to me.  
Then I could be more secure  
in knowing that everything was  
being done correctly.

Thanks,  
Judy.

Date: Tue, 15 Sep 92 12:18:46 MDT  
From: deb@aristida.CFNR.ColoState.EDU (Deb Coffin)  
To: barb@picea.CFNR.ColoState.EDU  
Subject: Re: Message #2 from Judy

Judy,

Ovendrying at 55 is ok. You can use a general definition of where the crown ends and the flower stalk begins, as suggested by Daniel, for those plants where crown was also obtained.

There should be 10 plants for each of the 10 sites where biomass of the plants were obtained in addition to clipping of inflorescences. In the past, the infloresc. and biomass were put into separate bags. It sounds like they are in the same bag this year. If so, then you are correct. Clip the flower stalks for weighing and saving of inflor., then sort the dead material from the remaining biomass, and weigh the live and recent dead.

The procedure is basically this:  
for flowering stalks and inflorescences-

1. measure the length of each flowering stalk (culm) and count the no. of inflor. (record these)
2. weigh the culms and inflor. for each plant
3. clip the inflor. and save for further processing

for biomass

1. clip culms from crowns if in the same bag
2. do above for culms and inflor.
3. for biomass, sort by old dead, and live+recent dead. discard old dead and weigh live+recent dead.

I forgot to include above that weights are also recorded, both of biomass and of culms+inflor.

Be sure to let me know if you have more questions.

Deb

Date: Mon, 21 Sep 92 11:50:22 MDT  
From: deb@aristida.CFNR.ColoState.EDU (Deb Coffin)  
To: barb@picea.CFNR.ColoState.EDU  
Subject: Re: Message from Judy #3

Judy,

"orphan" culms should be put in with the biomass material and weighed with it.

Deb

Date: Fri, 25 Sep 92 12:19:45 MDT  
From: deb@aristida.CFNR.ColoState.EDU (Deb Coffin)  
To: barb@picea.CFNR.ColoState.EDU  
Subject: Re: Message from Judy #4

Judy,

The culm measurement should always be to the lowest seed head even when there are three inflorescences.

I would be happy to talk with the workstudies sometime in Nov.  
Please remind me after Nov. 1.

Deb