From:	Bill Rooney
To:	"Walter Nelson"
Subject:	RE: R07007 PV winter 08-09 data
Date:	Tuesday, September 22, 2009 3:10:00 PM
Attachments:	PVP for R07007.pdf

Walter:

Attached is the PVP document.

Besides the panicle and the grain color, the other distinctive character of this line is the amount and angle of side branch tillering once the line is past initial culm maturity. Compared to other sorghums, this line produces prolific nodal tillers that grow out at a lower angle than most nodal tillers. We can probably get some pics of this, but I'm sure that if you look you'll notice this characteristic as well.

anything else, just let me know.

regards,

bill

Dr. William L. Rooney
Professor, Sorghum Breeding and Genetics
Chair, Plant Release Committee
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College Station, Texas 77843-2474
979 845 2151

> -----Original Message-----
> **From:** Walter Nelson [mailto:wnelson@ceres.net]
> **Sent:** Tuesday, September 22, 2009 7:10 AM
> **To:** Bill Rooney
> **Subject:** RE: R07007 PV winter 08-09 data
>
> Hi Bill,
>
> Thanks for the plot maps yesterday. We had a good field visit and definitely saw the differences in expression between the hybrids. Will be interesting to see the data when it is ready.
>
> Wanted to follow up on this PVP data (attached). Have you had a chance to review it and add any insights to knowledge about the lines and hybrids? Please note Joe's data request below for the types of specifics he is especially interested in.
>
> The IP guys would like to get this ASAP as the filing deadline is in a few weeks.
>
> Thanks!
>
> W
>
> > -----Original Message-----
> > **From:** Joseph Cahill
> > **Sent:** Thursday, August 13, 2009 2:25 PM
> > **To:** Walter Nelson
> > **Cc:** Steven Bobzin; Mircea Achiriloaie
> > **Subject:** R07007 PV winter 08-09 data

Walter,

Attached is the data Edgar collected in Puerto Vallarta for R07007. As discussed, when forwarding to Bill, please stress that if he is aware of any traits that distinguish the variety beyond those listed, we would greatly appreciate such insight.

There are four files in total. Two to follow.

Yours truly,

Joe Cahill

[redacted]

60 — 4

[redacted]IGHT

200500098

5 cm From Soil To Top Of Panicle

~~62~~ cm Less Than 4 1 = TX3042 2 = Wheatland 3 = TX2737 4 = TX430 5 = Redland

60 cm Greater Than 4 6 = Other Public Line (Specify) ATLAS

8 No of Recessive Height Genes Plant Height Genotype (Mark only recessive) : __ dw1 __ dw2 __ dw3 __ dw4 ← UNKNOWN

1 2 2 2 __ Waxy Bloom: 1 = Present 2 = Absent

1 1 2 2 __ Tillers: 1 = Few 2 = Moderate 3 = Many

~~——~~ 2 2 __ Sweetness: 1 = Sweet 2 = Insipid

2 1 2 1 __ Juiciness: 1 = Dry (Pithy) 2 = Juice

2 2 3 2 __ Panicle Exsertion: 1 = Short 2 = Medium 3 = Long

3 3 3 3 __ Degree of Senescence: 1 = Senescent 2 = Nonsenescent 3 = Intermediate

---

6. LEAF (First leaf below flag leaf)

2 1 2 1 __ Width (Relative to Class): 1 = Narrow 2 = Moderate 3 = Wide

1 1 1 1 __ Color: 1 = Light Green 2 = Dark Green

1 2 1 1 __ Margin: 1 = Smooth 2 = Wavy

3 2 3 3 __ Attitude: 1 = Erect 2 = Horizontal 3 = Drooping

2 2 2 2 __ Ligule: 1 = Present 2 = Absent

3 2 3 1 __ Midrib Color: 1 = White 2 = Intermediate 3 = Cloudy 4 = Yellow 5 = Brown

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7. PANICLE

2 2 2 2 __ ANTHER COLOR (At Flowering) 1 = White 2 = Light Yellow 3 = Dark Yellow 4 = Wine

30, 12, 15, 15 ____ cm Panicle Length

____ cm Less Than ___ 1 = TX3042 2 = Wheatland 3 = TX2737 4 = TX430 5 = Redland

____ cm Greater Than ___ 6 = Other Public Line (Specify) ____________

2 4 4 3 __ Density: 1 = Open 2 = Semi-Open 3 = Semi-Compact 4 = Compact

4 3 3 5 __ Shape: 1 = Round 2 = Oval 3 = Cylindrical 4 = Conical 5 = Obovate

1 2 1 1 __ Length of Central Rachis (% of Panicle Length): 1 = 100% 2 = 75% 3 = 50% 4 = 25%

1 1 1 1 __ Rachis Branches (At Grain Maturity) 1 = Erect 2 = Horizontal 3 = Drooping

3 2 2 1 __ Rachis Branch Average 1 = Short 2 = Intermediate 3 = Long

PANICLE (Continued)

20050098

___ Panicle Type (Select Number from Diagram Below)

Glumes

2 2 1 2 ___ Length: 1 = Short 2 = Intermediate 3 = Long

1 1 1 1 ___ % of Grain Covered by Glume: 1 = 25% 2 = 50% 3 = 75% 4 = 100% 5 = Over 100%

2 2 2 1 ___ Texture: 1 = Papery 2 = Intermediate 3 = Tough

5 3 3 6 ___ Color (At Grain Maturity): 1 = Black 2 = Mahogany 3 = Red 4 = Brown 5 = Dark Tan 6 = Light Tan

2 2 1 2 ___ Hairiness: 1 = Smooth 2 = Intermediate 3 = Hairy

2 2 2 2 ___ Venation: 1 = Present 2 = Absent

2 2 2 2 ___ Transverse Veinlet: 1 = Present 2 = Absent

1 1 1 3 ___ Awns: 1 = Absent 2 = Short 3 = Intermediate 4 = Long

6. ROOTS

1 1 1 1 ___ 1 = Fibrous 2 = Rhizomatous

9. GRAIN

1 1 1 1 ___ Testa: 1 = Absent 2 = Present

3 2 3 3 ___ Testa Color: 1 = Brown 2 = Purple

1 3 1 2 ___ Mesocarp Thickness: 1 = Thin 2 = Intermediate 3 = Thick

___ Epicarp Color (Genetic): 1 = White 2 = Lemon Yellow 3 = Red

___ Spreader (Tassle in Podcap): 1 = Absent 2 = Present

___ Infestation: 1 = Absent 2 = Present

2 5 2 4 ___ Grain Color (Appearance): 1 = White Pearly 2 = White Chalky (Opaque) 3 = Yellow 4 = Lemon Yellow 5 = Light Red 6 = Dark Red 7 = Light Brown 8 = Reddish Brown 9 = Dark Brown 10 = Purple 11 = Other (Specify) _____

[redacted]

. GRAIN (Continued) 200500098

1111 ___ Endosperm Color: 1 = White 2 = Yellow

2221 ___ Endosperm Type: 1 = Starchy 2 = Waxy 3 = Sugary

2213 ___ Endosperm Texture: 1 = Floury 2 = Intermediate 3 = Corneous

___ Seed Shape: 1 = Round 2 = Oval 3 = Ovate 4 = Turtleback

5 = Flat 6 = Wedge 7 = Other (Specify) ____________________

___ ___ ___ No. of Seed per 100 G Genotype (if known): R, Y, I, Z, B1, B2, S, Tp, Wx, Fl

Define) ____________________

10. DISEASE RESISTANCE (1 = Susceptible 2 = Intermediate 3 = Resistant)

Bacterial Stripe, Charcoal Rot, Maize Dwarf Mosaic Virus, Puccinia (Rust), Bacterial Streak, Bacterial Spot, Anthracnose, Head Smut, Sooty Stripe, Downy Mildew, Grain Mold, Fusarium Stalk Rot or Others.

11

REACTION	DISEASE	CAUSAL AGENT	RACE OR PATHOTYPE

11. INSECT RESISTANCE (1 = Susceptible 2 = Intermediate 3 = Resistant)

Sorghum Midge, Chinch Bug, Greenbug or Others.

REACTION	INSECT	BIOTYPE

12. MOLECULAR TRAITS