

NAME OF TEST: Preliminary evaluation of Panicum introductions.
 OBJECTIVES: To determine the potential value of new Panicum accessions for use in improvement programs or for increase and distribution.

PROCEDURE:

Location: Agronomy Farm, College Station, Texas

Soil type: Lufkin fine sandy loam

Cultural practices: Seedling were started in the greenhouse and transplanted to the field in May after becoming well rooted. The plants were established in 40-inch rows, 40 inches apart in the row to facilitate cross cultivation. Irrigation was used during the establishment period.

RESULTS: Good field survival was obtained. The plants became well established by early fall. The accessions were noted for general characteristics such as uniformity, plant type, leafiness, pubescence, etc. More specific evaluations will be made based on recovery growth in the second year.

Several individual plants showed promise for specific characteristics. No P. coloratum or P. stapfianum accession was sufficiently uniform for desirable characteristics to consider for use without further selection. P. makarikariense was more uniform and one or two accessions appeared promising.

PROJECT: Hatch 387
 WORKER: E. C. Holt
 DATE: January, 1963

Preliminary evaluation of Panicum introductions, College Station, 1962

P.I. No.	SCS PMT No.	Scientific Name	Observations in 1962
273257	508	Pennisetum macrourum	5 plants total, coarse, no seed heads 10/17/62
275104	509	Pennisetum ciliare	
275968	510 511	P. bulbosum	Very coarse, vigorous, late, no seed heads, not P. bulbosum
275100	512 513	Pennisetum ciliare	
268410	514	P. antidotale	Some quality plants, but individual accessions not acceptable.
269390	515	P. antidotale	
271587	516	P. antidotale	
271590	517	P. antidotale	
166400	518	P. coloratum	Variable, weak, plants 33-2, 4, 7 fairly good
185548	519	P. coloratum	Decumbent, variable
185551	520	P. coloratum	Few weak, very poor plants
185558	521	P. coloratum	
188931	522	P. coloratum	Rather coarse, pubescent, red nodes, intermediate to decumbent, not typically coloratum

Table continued.

P.I. No.	SCS PMT No.	Scientific Name	Observations in 1962
188932	523	<i>P. coloratum</i>	Variable, poor, plant 35-6 very good, not typical <i>coloratum</i>
196361	524	<i>P. coloratum</i>	Decumbent, fair accession
196362	525	<i>P. coloratum</i>	Decumbent or sprawling, pubescent, stemmy
196363	526	<i>P. coloratum</i>	Decumbent, stemmy, few good plants
196365	527	<i>P. coloratum</i>	Missing
206370	528	<i>P. coloratum</i>	Uniform, decumbent, fairly leafy, makarikariense type
253249	529	<i>P. coloratum</i>	Mixed, decumbent, vigorous, not as good as 531, makarikariense type
276059	530	<i>P. coloratum</i>	
184776	531	<i>P. makarikariense</i>	Very uniform, coarse, leafy, not as decumbent as most makarikariense, promising
185547	532	<i>P. stapfianum</i>	Short, stemmy
190326	533	<i>P. stapfianum</i>	
196367	534	<i>P. stapfianum</i>	<u>Good</u> , intermediate to decumbent, leafy, vigorous, <u>promising</u>
196368	535	<i>P. stapfianum</i>	
198589	536	<i>P. stapfianum</i>	Decumbent, vigorous, pubescent, fairly uniform
206371	537	<i>P. stapfianum</i>	Variable, not very good
185456	544	<i>P. antidotale</i>	Some leafy, fine stemmed or vigorous but not as good in general as available Blue Panic selections.
185457	545	<i>P. antidotale</i>	
196337	546	<i>P. antidotale</i>	
213272	547	<i>P. antidotale</i>	
215646	548	<i>P. antidotale</i>	
215647	549	<i>P. antidotale</i>	
235119	550	<i>P. antidotale</i>	
203520	551	<i>P. makarikariense</i>	Some mixture, generally intermediate growth habit, coarse, leafy, promising
208998	552	<i>P. makarikariense</i>	
210692	553	<i>P. makarikariense</i>	Very decumbent, not promising
	554		
178257	555	<i>P. stapfianum</i>	Decumbent, poor type
208013	556	<i>P. stapfianum</i>	Mixed, variable, plant 51-4 good
208014	557	<i>P. stapfianum</i>	Decumbent, stemmy, no outstanding plants
208015	558	<i>P. stapfianum</i>	Very variable, mostly decumbent, poor, plant 36-5, good
208016	559	<i>P. stapfianum</i>	Variable, poor
208017	560	<i>P. stapfianum</i>	Variable, intermediate in vigor and leafiness, plant 52-4 good
208246	561	<i>P. stapfianum</i>	Fair leafiness and vigor
208107	562	<i>P. stapfianum</i>	Stemmy, poor, short, intermediate to decumbent, 54-5 fair
208176	563	<i>P. stapfianum</i>	Very poor except plant 56-5
208247	564	<i>P. stapfianum</i>	Variable, short, poor, stemmy to leafy
208400	565	<i>P. stapfianum</i>	

Table continued.

P.I. No.	SCS PMT No.	Scientific Name	Observations in 1962
208401	566	<i>P. stapfianum</i>	Very decumbent, fairly uniform
208402	567	<i>P. stapfianum</i>	Short, fine, stemmy, intermediate, poor type
207990	568	<i>P. coloratum</i>	Mostly stemmy, poor plant, 42-3 very good
207993	569	<i>P. coloratum</i>	Decumbent, largely pubescent, red nodes, not very good, not typical <i>coloratum</i>
207995	570	<i>P. coloratum</i>	Decumbent, stemmy, no outstanding plants
207996	571	<i>P. coloratum</i>	Decumbent, stemmy, no outstanding plants
207997	572	<i>P. coloratum</i>	Very decumbent, stemmy, no good
208000	573	<i>P. coloratum</i>	Stemmy, coarse, poor
208004	574	<i>P. coloratum</i>	Decumbent, stemmy, no outstanding plants
208005	575	<i>P. coloratum</i>	
255332	576	<i>P. coloratum</i>	Upright, vigorous, fair accession, not typical <i>coloratum</i>
255333	577	<i>P. coloratum</i>	Variable, fairly vigorous, some good plants, 43-2, 45-9, not typical <i>coloratum</i>
255335	578	<i>P. coloratum</i>	Stemmy, tall and sprawling, not good
255336	579	<i>P. coloratum</i>	Extremely stemmy, very poor, decumbent
263602	580	<i>P. coloratum</i>	Completely mixed
263603	581	<i>P. coloratum</i>	Leafy, coarse, intermediate, some variation, fair type, <i>makarikariense</i> type
263604	582	<i>P. coloratum</i>	<i>Digitaria</i>
263606	583	<i>P. coloratum</i> (<i>makarikariense</i>)	Not as good as 581
263607	584	<i>P. coloratum</i> (<i>makarikariense</i>)	Decumbent, coarse, not as good as 581