

Procedure for advancing and selecting entries: AVHT Zone I

Economic benefit (EB) for Zone I and III: (Grain yield x Market price) + (30 % Fodder yield x Market price)

Economic benefit (EB) for Zone II: (Grain yield x Market price) + (20 % Fodder yield x Market price)

Market price of sorghum = Rs. 4.50

Round 1, of selection: SF deadheart for res. check IS 2312 + CD 5% = 10.1+14.3= 24.4% none of the varieties & hybrids qualify

Round 2, of selection: SF deadheart for res. check IS 2312 + 2 x CD 5% = 10.1+ 28.6 = 38.7%; SPV Nos. 1774, 1775, 1733, 1600, 1746, and 1742 qualify.

Total No of varieties =6. None of the hybrids qualify

Round 3, of selection: EB of the selected entries more or less by 5% over the check: SPV 462 ; 5% less EB of SPV 462 = Rs. 24,405, none of the varieties qualify

Round 4, of selection: 10 % Grain yield over check : Only SPH 1596 qualifies

AVHT summary for Zone I: Only SPH 1596 hybrid qualify and none of the varieties qualifies.

Centre/source	Variety / Hybrid	SF_DH %	GY Kg/ha	R	% ± over check	FY Kg/ha	R	% ± over check	EB Rs.	% ± over check	DWMD %	GW g	DTF	Pl.h cm
UDAIPUR	SPV 1774	29.7	3070	13	-32	18410	1	1	19338	-25	5	27.3	70	265
UDAIPUR	SPV 1775	33.1	3002	14	-33	18130	5	0	18948	-26	7	28.1	71	256
MAHODAYA HYBRID	SPH 1596	45.0	4357	2	15	16342	12	-1	24509	11	6	28.6	66	196
SR 666-1	SPV 1733	29.8	3869	4	-14	16955	8	-7	22497	-12	5	25.6	72	201
CSH 16	CSH 16 (Check)	43.2	3780	7	-1	16262	13	-1	21889	-1	4	30.3	65	186
SPV 1616	SPV 1616 (Check)	31.3	3566	9	-21	18165	3	0	21497	-16	5	29.1	71	241
CSH 23	CSH 23 (Check)	39.3	3413	10	-10	14697	14	-11	19768	-10	5	27.9	59	171
SPV 462	SPV 462 (Check)	33.1	4498	1	0	18164	4	0	25690	0	5	27.0	71	218
CSV 15	CSV 15 (Check)	41.0	3788	6	-16	17593	7	-3	22324	-13	5	25.3	71	222
CSV 17	CSV 17 (Check)	27.9	2341	15	-48	11368	15	-37	13945	-46	4	23.8	56	136
Local check	Local Check	30.9	3633	8	-19	16440	10	-9	21281	-17	18	23.5	68	246
Dharwad	SPV 1600	32.0	3084	12	-31	18213	2	0	19342	-25	4	25.3	72	243
Dharwad	SPV 1746	32.5	3891	3	-13	17654	6	-3	22806	-11	6	23.6	73	194
NRCS Elan	SPV 1742	34.4	3340	11	-26	16709	9	-8	20043	-22	6	26.3	72	174
CSH 18	CSH 18 (Check)	39.1	3801	5	0	16430	11	0	22034	0	7	24.7	72	202
	IS 2312 (R) / B 58586(R)	10.1												
	C.D. (5%)	14.3	1167			3235						4.2	4	35
	C.D. (1%)	19.0	1619			4364						5.7	5	47
	C.V. (%)	29.23	15.27			11.54						9.50	3.52	10.02

SF-DH shoofly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, DWMD = Downey mildew, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Procedure for advancing and selecting entries: AVHT Zone II

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 16.6+9.8= 26.4% none of the varieties & hybrids qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 x CD 5% = 16.6+ 19.6 = 36.2%; none of the varieties & hybrids qualify

Round 3, of selection: SF deadheart for res check IS 2312 + 3 x CD 5% = 16.6+ 29.4 = 46%; SPV Nos. 1786, 1774, 1600, 1746 and 1742 qualify.

Total no of varieties =5 No hybrids qualify

Round 3, of selection: EB of the selected entries more or only 5% less over the check:

EB of CSV 15= Rs. 20193, 5% less EB : 19,183 SPV Nos. 1786, 1774 and 1746 qualify.

Total no of varieties =3

Round, 4 of selection: grain mould score = resistance check (IS 14332) + CD = GMFG 2.6 +2 = 4.6 score, the variety SPV No. 1786 qualify

AVHT summary for Zone II: the variety SPV No. 1786 qualify and no hybrid qualify.

Centre/source	Variety / Hybrid	SF_D H %	GY Kg/h a	R	% ± over check	FY Kg/h a	R	% ± over check	EB Rs.	% ± over check	GMF G score	GMTG score	GW g	D T F	Pl. H cm
AKOLA	SPV 1786	38.7	4241	8	7	12183	6	7	21521	7	4.2	4.3	23.0	75	234
MAU PARBHANI	SPH 1567	50.1	5260	1	6	12478	4	18	26166	7	5.0	4.6	23.4	75	206
UDAIPUR	SPV 1774	41.0	3863	12	-3	14322	1	26	20248	0	4.7	4.4	26.1	74	276
NRCS, Hyderabad	CSH 16 (Check)	48.7	4423	7	-11	9955	13	-6	21895	-10	4.8	5.1	27.0	70	190
NRCS, Hyderabad	SPV 1616 (Check)	36.1	4491	6	13	13014	3	14	22812	13	4.3	4.4	26.8	75	248
CSH 23	CSH 23 (Check)	43.4	4751	3	-4	9468	14	-11	23273	-5	5.8	6.2	27.3	66	177
APSSDC	SPV 462 (Check)	39.4	4749	4	19	12276	5	8	23826	18	5.0	5.1	25.4	76	228
NRCS, Hyderabad	CSV 15 (Check)	33.8	3981	9	0	11390	9	0	20193	0	4.7	4.6	25.0	76	223
RAU, Udaipur	CSV 17 (Check)	40.4	3845	13	-3	7898	15	-31	18882	-6	5.3	5.4	23.9	63	145
Local check	Local check	34.7	3907	11	-2	11313	10	-1	19844	-2	5.6	5.2	26.3	77	216
Dharwad	SPV 1600	44.3	3546	14	-11	13792	2	21	18715	-7	4.5	4.8	24.7	77	251
Dharwad	SPV 1746	42.6	3959	10	-1	12020	7	6	20220	0	4.7	4.9	23.6	78	202
NRCS, Elan	SPV 1742	43.8	3362	15	-16	10765	11	-5	17282	-14	5.2	5.3	24.5	77	178
CSH 16	CSH 16 (Check)	58.4	4961	2	0	10613	12	0	24447	0	5.1	5.3	26.8	71	195
CSH 18	CSH 18 (Check)	47.6	4718	5	-5	11910	8	12	23613	-3	5.0	4.6	23.8	75	209
	IS 2205 (R) / IS 14332(R)	21.9									2.6	2.8			
	IS 2312 (R) / B 58586(R)	16.6									3.7	3.8			
	C.D. (5%)	9.8	763			3028					1.5	1.6	3.3	3	16
	C.D. (1%)	13.0	1010			4030					2.0	2.2	4.4	4	21
	C.V. (%)	19.99	18			16.87					25.25	20.15	11.5	4. 25	8.79

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, GMFG=grain mould field grade, GMTG = grain mould threshed grade, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Summary_tables_selection criteria

Procedure for advancing and selecting entries: AVHT Zone III

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 15.4+12.7= 28.1% none of the varieties & hybrids qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 x CD 5% = 15.4 + 25.4 = 40.8% SPV Nos. 1774, 1775, 1742, 1786, 1733, 1730, 1600 and 1746 qualify, Total no of varieties = 8 , No hybrids qualify

Round 3, of selection: EB of the selected entries more or less by 5% over the checkSPV 462; 5% less EB of SPV 462 = Rs. 16236, Only SPV Nos 1786, 1733, 1600 and 1746 qualify

Round 4, of selection: Anthracnose and Zonate leaf spot = < 2.5 score; none qualify

Round 5, of selection: 10 % Grain yield over check : Only SPH 1596 qualifies

AVHT summary for Zone III: Only SPH 1596 hybrid qualify and none of the varieties qualifies..

Centre/source	Variety / Hybrid	SF_DH %	GY Kg/ha	R	% ± over check	FY Kg/ha	R	% ± over check	EB Rs.	% ± over check	Anthracnose Score	Zonate leaf spot score
UDAIPUR	SPV 1774	37.4	2071	19	-23	20420	1	21	15446	-10	2.85	3.23
UDAIPUR	SPV 1775	34.7	2252	18	-16	19554	3	16	16000	-6	2.48	3.23
NRCS, Elan	SPV 1742	40.6	2290	16	-14	14338	17	-15	14606	-15	3.00	3.83
AKOLA	SPV 1786	32.8	2526	14	-5	17161	11	2	16515	-3	2.70	3.33
CSH 16	CSH 16 (Check)	43.3	2857	6	-5	15482	15	-12	17501	-7	2.40	3.26
AICSIP, GAU, Surat	SPV 1733	35.0	2749	9	3	17835	7	6	17721	4	2.55	3.11
AICSIP, MPUAT, Udaipur	SPV 1730	38.0	2268	17	-15	19203	5	14	15967	-7	2.70	3.45
NRCS, Hyderabad	CSH 16 (Check)	42.8	2911	5	-3	14776	16	-16	17532	-7	3.00	3.45
NRCS, Hyderabad	SPV 1616 (Check)	34.5	2585	13	-3	18463	6	9	17171	0	2.78	3.30
Mahendra seeds	SPH 1342	45.7	3228	3	8	13722	18	-22	18643	-1	2.93	3.30
APSSDC	SPV 462 (Check)	33.5	2673	10	0	16876	12	0	17091	0	2.78	3.53
NRCS, Hyderabad	CSV 15 (Check)	32.4	2476	15	-7	19376	4	15	16955	-1	2.55	3.23
RAU, Udaipur	CSV 17 (Check)	36.1	2822	8	6	11915	19	-29	16274	-5	3.30	3.93
Local check	Local Check	31.8	2832	7	6	17267	10	2	17924	5	4.71	4.34
Kaveri Seeds	SPH 1587	40.9	3248	2	8	16625	14	-1	19604	4	2.70	3.23
MAHODAYA HYBRID	SPH 1596	44.7	3451	1	15	16830	13	0	20579	9	2.40	3.26
Dharwad	SPV 1600	27.4	2653	11	-1	19983	2	18	17933	5	2.55	3.41
Dharwad	SPV 1746	40.6	2624	12	-2	17356	9	3	17015	0	3.15	3.26
MSSC	CSH 18 (Check)	37.8	3001	4	0	17659	8	0	18802	0	3.00	3.68
	IS 2312 (R) / B 58586(R)	15.4										
	IS 2205 (R) / IS 14332(R)	20.1										

	C.D. (5%)	12.7	650			5480						
	C.D. (1%)	16.8	863			7298						
	C.V. (%)	23.69	19.03			18.92						

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit,

Procedure for advancing and selecting entries: IHT Zone I

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 18 + 10.5 = 28.5% none of the hybrids qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 CD 5% = 18 + 21 = 39% none of the hybrids qualify

Round 3, of selection: SF deadheart for res check IS 2312 + 3 CD 5% = 18 + 31.5 = 49.5% All hybrids qualify, Total no of hybrids = 16

Round 4, of selection: EB of the selected entries more or less by 5% over the check: 5% less EB of CSH 18 = Rs. 25818 Only SPH Nos. 1603, 1604, 1605, 1606, 1609, 1610, 1611, 1614, 1615, 1616 and 1617 qualify, Total no of hybrids = 11.

Round 5, of selection: Downey mildew= up to 20% damage. All 11 hybrids qualify

IHT summary for Zone I: Only 11 hybrids, SPH Nos. 1603, 1604, 1605, 1606, 1609, 1610, 1611, 1614, 1615, 1616 and 1617 qualify

Centre	Hybrid	SF-DH %	GY Kg/ha	R	% ± Over check	FY Kg/ha	R	% ± Over check	EB Rs.	% ± Over check	DWMD %	GW g	DTF days	PI.ht cm
Udaipur	SPH 1602	42.2	2874	20	-42	10651	20	-35	16128	-41	4.05	27.2	51	175
Ganga kaveri	SPH 1603	43.3	5580	8	13	18569	2	13	30681	13	4.98	28.6	65	275
Ganga kaveri	SPH 1604	42.9	6097	3	23	18233	3	11	32906	21	4.99	25.6	66	278
Akola	SPH 1605	43.8	4983	12	1	14525	16	-12	26781	-1	6.04	23.3	63	222
Krishidhan seeds	SPH 1606	45.6	6279	2	27	16039	8	-3	33067	22	8.83	28.0	65	188
Nuziveedu seeds	SPH 1607	43.4	4309	18	-13	14322	18	-13	23687	-13	4.05	29.1	59	189
Mahyco	SPH 1608	41.9	3864	19	-22	18589	1	13	22965	-15	5.13	36.2	61	213
G Tech seed exports	SPH 1609	43.3	5962	4	21	16376	6	-1	31742	17	4.05	28.1	66	202
JK Seeds	SPH 1610	45.6	5728	7	16	16754	4	2	30802	13	5.06	30.2	63	216
Srirama Agritech	SPH 1611	44.5	5878	5	19	14815	15	-10	30896	14	8.46	27.3	62	184
Advanta	SPH 1612	42.9	4575	17	-7	14467	17	-12	24928	-8	4.99	24.0	67	173
CHECK	CSH 16	50.2	5359	10	8	15638	10	-5	28807	6	4.05	27.1	63	190
CHECK	CSH 23	43.7	4668	15	-6	13844	19	-16	25159	-7	4.05	28.5	58	189
CHECK	CSH 18	41.5	4941	13	0	16474	5	0	27177	0	4.05	25.3	67	227
Parbhani	SPH 1613	46.3	4638	16	-6	16029	9	-3	25680	-6	11.71	26.7	65	215
Parbhani	SPH 1614	48.3	5203	11	5	15280	12	-7	27998	3	6.04	26.5	66	215
Local check	Local check	34.8	4825	14	-2	15048	14	-9	26227	-3	18.45	24.4	67	225
Kaveri seeds	SPH 1615	44.7	5739	6	16	15078	13	-8	30349	12	6.00	27.6	66	201
Emergent genetics	SPH 1616	45.6	6293	1	27	15533	11	-6	32978	21	4.99	31.2	65	209
Pradham Biotech	SPH 1617	46.4	5504	9	11	16189	7	-2	29625	9	5.06	24.6	64	210
Ento. Res / Patho. Res	IS 2312 (R) / B 58586(R)	18.0												

Ento. Res / Patho. Res	IS 2205 (R) / IS 14332(R)	17.9												
	C.D. (5%)		455			3345					4.31	5.3	3	22
	C.D. (1%)		610			4572					5.78	7.3	4	30
	C.V. (%)		5.33			10.23					37.31	9.29	2.39	4.96

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, Downmild = Downey mildew, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Procedure for advancing and selecting entries: IHT Zone II

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 18 + 10.5 = 28.5% none of the hybrids qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 CD 5% = 18 + 21 = 39% none of the hybrids qualify

Round 3, of selection: SF deadheart for res check IS 2312 + 3 CD 5% = 18 + 31.5 = 49.5% All hybrids qualify, Total no of hybrids = 16

Round 4, of selection: EB of the selected entries more or less by 5% over the check CSH 16 : 5% less EB of CSH 16 = Rs. 32977, Only SPH Nos. SPH Nos. 1603, 1607, 1608, 1610, 1611, 1615, 1616 and 1617 qualify, total no of hybrids = 8

Round 4, of selection: grain mould score = resistance check (IS 14332) + 5% CD = GMFG 3.5 + 1.4= 4.9 score, Hybrid SPH 1603, qualify.

IHT summary for Zone II: 1 hybrid, SPH 1603 qualify.

Centre	Hybrid	SF-DH %	GY Kg/ha	R	% ± Over check	FY Kg/ha	R	% ± Over check	EB Rs.	% ± Over check	GMFG score	GMTG score	GW g	DTF days	Pl.ht cm
Udaipur	SPH 1602	42.2	5635	19	-15	18847	20	-22	29127	-16	5.5	5.2	26.1	59	174
Ganga kaveri	SPH 1603	43.3	5830	17	-12	35129	2	45	33261	-4	4.7	4.7	25.7	71	266
Ganga kaveri	SPH 1604	42.9	5297	20	-20	36739	1	52	31184	-10	5.2	4.9	22.8	71	277
Akola	SPH 1605	43.8	5990	13	-10	27658	6	14	32487	-6	4.9	4.8	23.9	68	200
Krishidhan seeds	SPH 1606	45.6	6085	11	-8	27309	7	13	32844	-5	5.1	5.0	26.1	71	196
Nuziveedu seeds	SPH 1607	43.4	6585	8	-1	23123	18	-4	34257	-1	5.7	5.8	25.9	63	186
Mahyco	SPH 1608	41.9	6596	7	-1	30492	3	26	35780	3	5.2	4.5	33.3	67	207
G Tech seed exports	SPH 1609	43.3	6035	12	-9	27249	8	13	32607	-6	4.7	4.9	25.8	72	196
JK Seeds	SPH 1610	45.6	7153	1	8	28715	4	19	37932	9	5.1	4.9	31.2	69	220
Srirama Agritech	SPH 1611	44.5	6843	3	3	23550	17	-3	35504	2	5.1	4.7	27.4	69	192
Advanta	SPH 1612	42.9	5839	16	-12	25922	11	7	31460	-9	5.1	5.1	28.1	72	170
CHECK	CSH 16	50.2	6639	6	0	24186	15	0	34713	0	4.8	4.7	29.2	69	188
CHECK	CSH 23	43.7	6514	9	-2	23820	16	-2	34077	-2	5.5	5.4	27.6	64	181
CHECK	CSH 18	41.5	5885	15	-11	26306	10	9	31744	-9	4.8	4.7	24.5	71	218
Parbhani	SPH 1613	46.3	5703	18	-14	25423	12	5	30748	-11	5.0	5.1	26.1	73	199
Parbhani	SPH 1614	48.3	5897	14	-11	26691	9	10	31875	-8	4.4	4.7	27.7	72	204
Local check	Local check	34.8	6948	2	5	22114	19	-9	35689	3	5.8	5.5	27.2	72	210
Kaveri seeds	SPH 1615	44.7	6741	5	2	24535	14	1	35242	2	5.0	4.9	28.8	71	193
Emergent genetics	SPH 1616	45.6	6785	4	2	28661	5	19	36265	4	5.2	4.9	29.8	69	209
Pradham Biotech	SPH 1617	46.4	6237	10	-6	25297	13	5	33126	-5	5.6	4.9	25.7	68	193

	IS 2312 (R) / B 58586(R)	18.0								3.5	3.7			
	IS 2205 (R) / IS 14332(R)	17.9								2.5	2.6			
	C.D. (5%)	10.5	1131			2037				1.4	1.6			
	C.D. (1%)	13.9	1496			2711				1.8	2.1			
	C.V. (%)	19.62	17.06			10.05				22.61	19.38			

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, DOWMILD = Downey mildew, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Procedure for advancing and selecting entries: IHT Zone III

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 18 + 10.5 = 28.5% none of the hybrids qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 CD 5% = 18 + 21 = 39 % none of the hybrids qualify

Round 3, of selection: SF deadheart for res check IS 2312 + 3 CD 5% = 18 + 31.5 = 49.5 % All hybrids qualify, Total no of hybrids = 16

Round 4, of selection: EB of the selected entries more or less by 5% over the check: CSH 18 ; 5% less EB of CSH 18 = Rs. 30064 Only SPH Nos. 1606, 1607, 1610, 1611, 1613 and 1615 qualify, Total no of hybrids = 6

Round 4, of selection: Anthracnose and Zonate leaf = < 2.5 score. None of the hybrids qualify.

Round 5, of selection: Grain yield 10% more over the check CSH 18: Only SPH No. 1611 qualify.

IHT summary for Zone III: Only SPH No. 1611 qualify

Centre	Hybrid	SF-DH %	GY Kg/ha	R	% ± Over check	FY Kg/ha	R	% ± Over check	EB Rs.	% ± Over check	Anthracnose score	Zonate leaf spot	GW g	DTF days	Pl.ht cm
Udaipur	SPH 1602	42.2	4582	16	-15	13731	20	-44	24738	-22	2.85	3.17	22.0	56	206
Ganga kaveri	SPH 1603	43.3	3534	20	-35	24856	2	1	23360	-26	2.55	2.74	31.3	68	314
Ganga kaveri	SPH 1604	42.9	3599	19	-33	22659	6	-8	22993	-27	2.40	2.94	26.9	69	328
Akola	SPH 1605	43.8	5144	9	-5	16887	19	-31	28214	-11	2.55	3.19	22.8	64	243
Krishidhan seeds	SPH 1606	45.6	5721	2	6	19447	15	-21	31579	0	2.70	3.32	29.4	70	227
Nuziveedu seeds	SPH 1607	43.4	5497	5	2	18354	17	-25	30243	-4	3.00	3.29	22.8	64	222
Mahyco	SPH 1608	41.9	4772	14	-12	25228	1	3	29042	-8	2.55	3.16	35.3	67	251
G Tech seed exports	SPH 1609	43.3	4466	18	-17	21744	9	-11	26620	-16	2.40	3.11	28.7	72	238
JK Seeds	SPH 1610	45.6	5709	3	6	22726	5	-7	32508	3	2.85	3.23	35.6	65	264
Srirama Agritech	SPH 1611	44.5	6317	1	17	19902	14	-19	34397	9	2.25	3.24	29.9	68	231
Advanta	SPH 1612	42.9	4806	13	-11	17710	18	-28	26940	-15	2.55	3.76	24.8	72	186
CHECK	CSH 16	50.2	5071	10	-6	18438	16	-25	28351	-10	2.70	3.70	30.4	65	218
CHECK	CSH 23	43.7	5556	4	3	20514	12	-16	31156	-2	2.70	3.55	24.4	63	211
CHECK	CSH 18	41.5	5397	7	0	24534	3	0	31647	0	2.55	3.50	30.0	73	267
Parbhani	SPH 1613	46.3	5287	8	-2	24232	4	-1	31061	-2	2.55	3.36	25.7	68	249
Parbhani	SPH 1614	48.3	5003	11	-7	22156	7	-10	29160	-8	2.85	3.46	24.2	66	245
Local check	Local check	34.8	4488	17	-17	20853	11	-15	26452	-16	4.26	4.32	37.2	71	237
Kaveri seeds	SPH 1615	44.7	5481	6	2	21748	8	-11	31189	-1	2.25	3.14	28.1	68	235
Emergent genetics	SPH 1616	45.6	4696	15	-13	21176	10	-14	27485	-13	2.40	3.18	36.0	68	250
Pradham Biotech	SPH 1617	46.4	4991	12	-8	19941	13	-19	28442	-10	2.70	3.18	23.6	66	236

	IS 2312 (R) / B 58586(R)	18.0												
	IS 2205 (R) / IS 14332(R)	17.9												
	C.D. (5%)	10.5	1283			24363					2.67	1.18	6.6	
	C.D. (1%)	13.9	1753			33301					3.55	1.57	8.9	
	C.V. (%)	19.62	12.24			24.21					60.55	26.2	14.1	

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Procedure for advancing and selecting entries: IVT Zone I

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 14.4 + 8.9 = 23.3% none of the varieties qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 CD 5% = 14.4 + 17.8 = 32.2% SPV Nos.1808, 1809, 1812, and 1817 qualify, Total no of varieties= 4

Round 3, of selection: EB of the selected entries more or less by 5% over the check: SPV 462; 5% less EB of SPV 462 = Rs. 31,722 Only SPV No. 1817 qualify,

Round 4, of selection: Downey mildew = up to 20% damage. SPV No. 1817 qualify

IVT summary for Zone I: Only SPV No. 1817 qualify

Centre	Variety	SF-DH %	GY Kg/ha	R	% ± Over check	FY Kg/ha	R	% ± Over check	EB Rs.	% ± Over check	DWMD %	GW g	DTF days	Pl.ht cm
SR 1905	SPV 1807	35.5	5297	12	-17	15193	14	-1	28394	-15	7.59	25.7	65	242
SU 1228	SPV 1808	31.9	5117	13	-20	15516	11	1	27681	-17	4.99	24.6	68	254
SU 1241	SPV 1809	30.7	5681	9	-11	16016	6	4	30369	-9	7.40	26.5	68	253
AKSV 94	SPV 1810	39.7	3432	18	-46	15981	7	4	20238	-39	8.37	29.4	72	259
AKSV 88	SPV 1811	36.0	5968	6	-7	16719	5	8	31872	-5	5.87	26.8	67	235
AKSV 24	SPV 1812	32.1	5680	10	-11	14467	18	-6	29900	-10	6.75	25.1	67	242
SVD 07-01	SPV 1813	38.0	4751	14	-26	14717	15	-4	25795	-23	4.87	30.1	69	224
SVD 07-02	SPV 1814	32.6	5300	11	-17	14487	17	-6	28196	-16	5.02	29.5	69	171
SVD 07-03	SPV 1815	36.9	4434	15	-31	15571	10	1	24624	-26	5.02	29.6	69	170
TNS 598	SPV 1816	34.7	6483	1	1	13403	19	-13	33194	-1	5.80	26.8	66	225
TNS 603	SPV 1817	31.4	6168	3	-4	18438	4	20	33287	0	5.88	27.0	64	237
CHECK	SPV 462	34.1	6393	2	0	15410	13	0	33392	0	4.05	26.1	67	227
CHECK	CSV 15	34.0	5843	7	-9	15420	12	0	30920	-7	4.93	25.4	68	249
CHECK	CSV 17	32.5	3147	19	-51	11179	20	-27	17515	-48	5.12	27.8	53	162
Local check	Local check	36.7	5806	8	-9	14527	16	-6	30485	-9	17.97	25.9	66	243
PVK 1050	SPV 1827	37.2	4274	17	-33	15948	8	3	24017	-28	4.94	28.0	67	250
PVK 1051	SPV 1818	35.6	6029	4	-6	15673	9	2	31832	-5	4.05	25.6	68	262
I-0-71	SPV 1819	37.4	4430	16	-31	18619	3	21	25521	-24	4.05	27.0	72	280
I-0-72	SPV 1820	35.6	6015	5	-6	19142	1	24	32810	-2	5.88	27.3	69	270
E 68-1	SPV 1821	42.2	1548	20	-76	19107	2	24	12698	-62	4.05	27.9	60	322
	IS 2312 (R) / B 58586(R)	14.4												
	IS 2205 (R) / IS 14332(R)	16.5												
	IS 18551 (R) / IS 14338(R)	16.1												
	C.D. (5%)	8.9	542			3097					3.98	7.0	2	46
	C.D. (1%)	11.8	725			4233					5.34	9.5	3	63
	C.V. (%)	20.37	6.44			9.38					35.16	12.3	1.59	9.18

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, DOWMILD = Downey mildew, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Procedure for advancing and selecting entries: IVT Zone II

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 14.4 + 8.9 = 23.3% none of the varieties qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 CD 5% = 14.4 + 17.8 = 32.2% SPV Nos.1808, 1809, 1812, and 1817 qualify, Total no of varieties= 4

Round 3, of selection: EB of the selected entries more or less by 5% over the check: CSV 15; 5% less EB of CSV 15= Rs. 18717, Only SPV Nos. 1808, 1812, and 1817 qualify.

Round 4, of selection: grain mould score = GMFG resistance check (IS 14332) + CD= 2.7+ 1.4 = 4.1 score, None of the variety qualify.

Round 5, of selection: grain mould score = GMFG resistance check (IS 14332) + 1.5CD = 4.8 score none of the variety qualify

IVT summary for Zone II: None of the variety qualifies

Centre	Hybrid	SF-DH %	GY Kg/ha	R	% ± Over check	FY Kg/ha	R	% ± Over check	EB Rs.	% ± Over check	GMFG score	GMTG score	GW g	DTF days	Pl.ht cm
SR 1905	SPV 1807	35.5	3506	11	-8	13191	10	5	18415	-7	5.4	4.5	27.2	73	260
SU 1228	SPV 1808	31.9	4064	2	6	14137	5	13	21115	7	5.2	5.0	27.0	76	242
SU 1241	SPV 1809	30.7	3126	17	-18	12639	11	1	16595	-16	5.2	4.9	26.9	77	254
AKSV 94	SPV 1810	39.7	2988	19	-22	14264	3	14	16299	-17	4.8	4.8	29.6	82	267
AKSV 88	SPV 1811	36.0	3644	9	-5	13271	9	6	19052	-3	5.6	5.0	26.7	75	253
AKSV 24	SPV 1812	32.1	3920	5	3	13947	6	11	20429	4	5.2	4.7	28.7	76	238
SVD 07-01	SPV 1813	38.0	3924	4	3	12200	14	-3	20098	2	5.4	4.7	29.6	79	225
SVD 07-02	SPV 1814	32.6	3444	12	-10	9754	18	-22	17449	-11	4.9	5.2	32.4	79	146
SVD 07-03	SPV 1815	36.9	3348	14	-12	9692	19	-23	17004	-14	4.9	5.1	32.7	79	144
TNS 598	SPV 1816	34.7	4290	1	12	12149	15	-3	21735	10	5.3	4.9	29.5	77	245
TNS 603	SPV 1817	31.4	3668	8	-4	13456	8	7	19197	-3	5.3	5.2	25.8	75	255
CHECK	SPV 462	34.1	4038	3	6	12580	12	0	20687	5	5.6	5.2	27.3	76	237
CHECK	CSV 15	34.0	3820	6	0	12565	13	0	19703	0	5.3	4.9	28.0	76	237
CHECK	CSV 17	32.5	3294	16	-14	7969	20	-37	16417	-17	5.6	5.4	25.3	61	152
Local check	Local check	36.7	3396	13	-11	11484	17	-9	17579	-11	5.6	5.2	25.8	82	242
PVK 1050	SPV 1827	37.2	3081	18	-19	12069	16	-4	16278	-17	5.2	4.7	29.7	80	243
PVK 1051	SPV 1818	35.6	3584	10	-6	14152	4	13	18958	-4	5.3	4.7	27.8	77	263
I-0-71	SPV 1819	37.4	3796	7	-1	14880	2	18	20058	2	5.2	5.0	29.2	84	256
I-0-72	SPV 1820	35.6	3295	15	-14	13789	7	10	17585	-11	5.1	4.9	30.2	78	236
E 68-1	SPV 1821	42.2	2456	20	-36	15057	1	20	14063	-29	4.7	4.8	31.2	74	318
	IS 2312 (R) / B 58586(R)	14.4									3.9	4.1			
	IS 2205 (R) / IS 14332(R)	16.5									2.7	2.4			

	IS 18551 (R) / IS 14338(R)	16.1								2.8	2.6			
	C.D. (5%)	8.9	640			2723				1.4	1.6	3.4	4	17
	C.D. (1%)	11.8	850			3606				1.9	2.1	4.6	5	23
	C.V. (%)	20.37	14.14			18.93				22.81	19.47	7.03	4.13	6.42

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, GMFG=grain mould field grade, GMTG = grain mould threshed grade, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height

Procedure for advancing and selecting entries: IVT Zone III

Round 1, of selection: SF deadheart for res check IS 2312 + CD 5% = 14.4 + 8.9 = 23.3% none of the varieties qualify

Round 2, of selection: SF deadheart for res check IS 2312 + 2 CD 5% = 14.4 + 17.8 = 32.2% SPV Nos.1808, 1809, 1812, and 1817 qualify, Total no of varieties= 4

Round 3, of selection: EB of the selected entries more or less by 5% over the check: SPV 462; 5% less EB of SPV 462 = Rs. 20,577 Only SPV Nos. 1808 and 1812 qualify

Round 4, of selection: Anthracnose and Zonate leaf spot = < 2.5 score. None of the varieties qualify.

IVT summary for Zone II: None of the varieties qualify.

Centre	Hybrid	SF-DH %	GY Kg/ha	R	% ± Over check	FY Kg/ha	R	% ± Over check	EB Rs.	% ± Over check	Anthracnose score	Zonate leaf spot	GW g	DTF days	Pl.ht cm
SR 1905	SPV 1807	35.5	3010	11	-14	20152	8	3	19591	-10	2.70	3.17	29.8	70	274
SU 1228	SPV 1808	31.9	3370	5	-4	20992	4	8	21463	-1	2.70	2.77	26.7	72	260
SU 1241	SPV 1809	30.7	2978	13	-15	20349	6	4	19506	-10	2.85	3.49	29.1	76	253
AKSV 94	SPV 1810	39.7	2174	19	-38	24380	2	25	17097	-21	2.70	3.17	25.6	82	273
AKSV 88	SPV 1811	36.0	3199	8	-9	19604	13	1	20277	-6	2.85	3.04	27.6	72	265
AKSV 24	SPV 1812	32.1	3429	4	-2	20038	10	3	21442	-1	2.55	3.04	26.8	72	253
SVD 07-01	SPV 1813	38.0	2921	14	-17	20118	9	3	19180	-11	2.85	2.93	29.5	74	234
SVD 07-02	SPV 1814	32.6	3054	10	-13	18062	17	-7	19162	-12	2.70	3.11	28.9	77	163
SVD 07-03	SPV 1815	36.9	2909	15	-17	17802	19	-9	18431	-15	2.70	2.87	28.0	77	160
TNS 598	SPV 1816	34.7	3324	7	-5	19190	16	-2	20715	-4	2.70	3.05	28.2	73	232
TNS 603	SPV 1817	31.4	3158	9	-10	17948	18	-8	19595	-10	3.45	3.17	26.8	72	268
CHECK	SPV 462	34.1	3514	3	0	19491	14	0	21660	0	2.70	2.68	28.3	73	238
CHECK	CSV 15	34.0	3537	1	1	20847	5	7	22171	2	2.85	2.80	27.7	74	250
CHECK	CSV 17	32.5	3530	2	0	12194	20	-37	19543	-10	2.85	3.38	24.5	55	148
Local check	Local check	36.7	3351	6	-5	19382	15	-1	20894	-4	4.53	4.27	34.2	71	245
PVK 1050	SPV 1827	37.2	2445	17	-30	20268	7	4	17083	-21	2.40	2.82	29.4	76	263
PVK 1051	SPV 1818	35.6	2985	12	-15	19624	12	1	19320	-11	2.25	2.96	30.3	73	282
I-0-71	SPV 1819	37.4	2775	16	-21	19860	11	2	18446	-15	2.40	2.86	26.7	77	249
I-0-72	SPV 1820	35.6	2379	18	-32	21730	3	11	17225	-20	2.55	3.23	28.3	80	243
E 68-1	SPV 1821	42.2	1936	20	-45	25873	1	33	16474	-24	4.35	3.36	25.4	71	339
	IS 2312 (R) / B 58586(R)	14.4									4.20	3.30			
	IS 2205 (R) / IS 14332(R)	16.5									4.92	3.00			

	IS 18551 (R) / IS 14338(R)	16.1								5.16	2.97			
	C.D. (5%)	8.9	758			4833				2.67	1.25	3.6	4	32
	C.D. (1%)	11.8	1009			6431				3.55	1.66	4.8	5	42
	C.V. (%)	20.37	17.86			17.15				57.68	29.6	8.67	3.89	9.19

SF-DH shootfly deadheart GY = Grain yield, R = Rank, FY = Fodder yield, EB = Economic benefit, GW = 1000 grain weight, DTF = Days to 50% flowering, Pl. H = Plant height