

Performance of AVT entries against rusts under multilocational testing during 2018-19										
S. No.	Code	Entry	RUSTS							
			STEM		LEAF				STRIPE	
			SOUTH		SOUTH		NORTH		NORTH	
			HS	ACI	HS	ACI	HS	ACI	HS	ACI
<b>I. Northern Hill Zone</b>										
1	NHTSZ-01	HPW349 (C)	30S	13.7	60S*	10.2	30S	9.6	20S	8.1
2	NHTSZ-02	VL907 (C)	20MS	3.1	5S	0.8	30S	9.4	40S	15.2
3	NHTSZ-03	HS507 (C)	5MS	1.4	5MS	1.7	60S	13.2	30MS	8.8
4	NHTSZ-04	HS652	40S	10.5	20MS	6.8	40S	11.1	20S	6.3
5	NHTSZ-05	HS562 (C)	60S	26.0	40S	8.9	40S	15.3	20S	5.1
6	NHLSZ-01	VL892 (C)	10MS	4.2	20S	3.3	30S	7.2	60S	30.3
7	NHLSZ-02	HS490 (C)	40S	16.7	20MS	4.9	20S	7	60S	24.0
8	NHLSZ-03	HPW468	30S	7.5	20S	5.9	30S	13.1	60MS	21.3
9	NHLSZ-04	HS673	60S	32.0	40S	14.3	60S	33.5	30MS	7.8
10	NHLSZ-05	VL3020	5MS	1.2	10S	1.5	40S	12.1	30MS	10.0
11	NHLSZ-06	UP3041	40S	14.3	40S	11.6	60S	14.5	40S*	5.5
12	NHLSZ-07	HPW467	20MS	3.5	60S*	9.6	20S	10	30MS	8.8
13	NHLSZ-08	HS674	40S	17.7	20S	9.1	40S	24.3	60S	14.9
14	NHLSZ-09	VL3019	10MS	2.0	20S	3.2	40S	16.5	40S	10.3
15	NHLSZ-10	VL3021	10S	3.7	40S*	6.6	30S	10.8	20S	2.4
<b>II. North Western Plain Zone</b>										
16	NW-TS-101	WH1105 (C)	30S	11.5	40S	7.5	60S	17	40S	12.4
17	NW-TS-102	HD3226(I) (C)	30S	7.3	20S	8.7	40S	12.4	20S	4.5
18	NW-TS-103	HD3086 (C)	40S	26.7	60S*	10.8	40S	28.1	40MS	10.0
19	NW-TS-104	PBW820 <sup>M</sup>	30MS	8.9	10MS	2.9	20S	3.9	20MS	3.9
20	NW-TS-105	DBW 221*	60S	40.7	80S	23.7	70S	30.6	40S*	12.0
20A	INFECTOR	Infector	100S	70.0	100S	78.6	100S	76.3	100S	78.2
21	NW-TS-106	DBW 222*	40S	20.7	10MS	1.2	10S	2.5	60S	14.6
22	NW-TS-107	PBW550 (C)	10MS	4.3	20MS	4.9	5MS	0.8	80S	46.3
23	NW-TS-108	PBW821 <sup>M</sup>	20MS	6.7	20S	5.1	5S	1.4	20S	4.8
24	NW-TS-109	HD2967 (C)	30S	8.7	10MS	1.5	30S	6.5	80S	37.5
25	NW-TS-110	NW 7049	40S	12.5	20MS	3.8	20S	4.9	40S	9.8
26	NW-TS-111	DPW621-50 (C)	20S	7.6	10MS	3.1	20S	4.7	80S	32.5
27	NW-TS-112	DBW88 (C)	20S	11.0	10MS	2.4	20S	4.1	80S	36.6
28	NW-LS-201	PBW752(I) (C)	60S	28.0	20MS	7.3	20S	6.3	10S	1.0
29	NW-LS-202	DBW173 (C)	10MS	2.6	20S	3.1	10S	3.6	60S	19.3
30	NW-LS-203	WH1021 (C)	20MS	3.8	40S*	6.7	60S	15.9	80S	46.2
31	NW-LS-204	HD3059 (C)	30S	11.0	5MS	1.2	40S	7.3	80S	35.8
32	NW-LS-205	WH1124 (C)	60S	38.8	60S*	9.6	40S	17.6	20S	6.0

33	NW-LS-206	PBW 771*	30S	7.5	10R	0.4	5S	0.9	10S	2.4
34	NW-RI-301	HI1620(I) (C)	20S	8.6	5S	1.6	10S	3.3	40S	10.6
35	NW-RI-302	PBW 796	20S	8.5	10MR	0.6	40S	10.8	20S	4.2
36	NW-RI-303	HI 1628*	10MS	5.2	60S*	8.9	20S	5.8	40S	13.5
37	NW-RI-304	WH1142 (C)	30MS	7.0	60S*	11.6	50S*	11.8	20S	4.9
38	NW-RI-305	HD3043 (C)	20MS	4.5	60S*	15.6	100S	28.1	60MS	23.0
39	NW-RI-306	PBW644 (C)	20S	15.5	10MS	1.3	50S*	10.3	60MS	21.4
40	NW-RI-307	HD3237(I) (C)	40S	24.0	60S	18.6	90S	22.8	10S	4.5
40A	INFECTOR	Infector	100S	66.7	100S	82.9	100S	76.3	100S	77.3
41	NW-RI-308	BRW 3806*#	30S	16.0	60S*	14.3	80S*	20.6	60S	25.7
42	NW-RI-309	NIAW 3170*	10MS	3.0	5S	1.6	20S	4.8	60S	17.4
43	NW-RI-310	WH1080 (C)	40MS	11.7	20S	4.3	80S*	17.3	30S	7.6
<b>III. North Eastern Plain Zone</b>										
44	NE-IR-101	HD3249*# <sup>Q</sup>	10S	4.0	5S	0.8	30S	8.8	20S	6.4
45	NE-IR-102	HD2733 (C)	20S	4.8	40S*	8.4	60S	21.9	80S	49.3
46	NE-IR-103	PBW 781	40S	19.1	5S	1.1	20S	5.5	5S	1.3
47	NE-IR-104	DBW 257	60S	22.3	60S*	10.9	40S	14.9	15S	4.2
48	NE-IR-105	DBW39 (C)	5MS	0.7	20S	2.9	5S	2.7	80S	36.2
49	NE-IR-106	HD 3277	30MS	9.0	5S	1.4	5S	0.9	20S	3.9
50	NE-IR-107	RAJ 4529	60S	26.0	20S	5.9	80S	19.4	40S	11.4
51	NE-IR-108	DBW187(I) (C)	30S	10.2	5S	0.7	15S	5.4	20MS	6.5
52	NE-IR-109	WH 1239	60S	26.8	40S*	7.1	20S	5.4	40S	10.0
53	NE-IR-110	K0307 (C)	60MR-MS	18.0	60S*	9.4	80S	21.6	60S	27.0
54	NE-IR-111	HD2967 (C)	20MS	6.3	5S	1.5	30S	6.5	60S	36.8
55	NE-RI-301	K1317 (C)	30MS	9.4	10MS	2.3	60S	15.1	40S	18.7
56	NE-RI-302	HI1612 (C)	40S	24.3	10MS	1.8	30S	7.8	40MS*	5.4
57	NE-RI-303	HD 3293	40S	24.7	10MS	2.8	70S	18.4	10S	3.1
58	NE-RI-304	HD3171 (C)	20S	14.1	60S*	10.9	80S	31.5	60S	19.9
59	NE-RI-305	HD2888 (C)	5MS	0.8	5S	0.7	20S	6.4	60S	26.5
60	NE-RI-306	DBW 252*#	20S	12.0	5MR	0.5	30S	6.9	60S	21.0
60A	INFECTOR	Infector	100S	70.0	100S	82.9	100S	80	100S	75.0
61	NE-RI-307	K8027 (C)	10MS	3.5	10MS	1.5	20S	4.5	60S	32.7
62	NE-RI-308	DBW 273	60S	28.0	40S*	6.9	15S	6.1	40S	12.3
<b>IV. Central Zone</b>										
63	CZ-TS-101	HI8713(d) (C)	10MS	1.6	5MR	0.3	10S	3.4	20S	3.9
64	CZ-TS-102	NIDW 1158 (d)	5MS	2.0	20MS	2.6	5S	0.6	5S	0.7
65	CZ-TS-103	HI 8811 (d)	10S	3.4	10MR	1.2	30S	7.1	40S*	5.7
66	CZ-TS-104	HD3343 <sup>M</sup>	40S	23.0	60S*	12.3	60S	23	80S	50.9
67	CZ-TS-105	GW322 (C)	40S	12.6	40S*	6.8	80S	23	80S	44.1
68	CZ-TS-106	HI1544 (C)	10MS	1.4	10R	0.3	40S	7.6	100S	62.7
69	CZ-TS-107	HI8737(d) (C)	40S	11.0	20MS	3.0	20S	3.3	15S	3.0

70	CZ-TS-108	HI 8812 (d)	5MS	2.0	20MS	2.6	20S	2.6	10S	3.4
71	CZ-TS-109	GW 1348 (d)	10S	3.7	10R	0.3	5S	0.9	30MS	9.4
72	CZ-TS-110	DDW 49 (d)	40S	12.8	60MS*	17.1	60S	13.8	20MS	6.5
73	CZ-TS-111	PBW 822 <sup>B</sup>	20MR	2.1	20S	2.9	40S*	7.6	40S*	4.1
74	CZ-TS-112	HD 3345 <sup>B</sup>	30MS	11.0	10S	3.5	80S	19.4	60S	28.0
75	CZ-TS-113	DDW 48 (d)	20S	8.8	20MR	2.6	20S	7.6	30MS	7.1
76	CZ-RI-301	HI8627(d) (C)	30MS	6.5	20MS	3.3	10S	4.7	60S	12.1
77	CZ-RI-302	DBW110 (C)	40MS	14.7	10MS	2.3	40S	11.7	80S	41.6
78	CZ-RI-303	UAS 466(d)*	40S*	10.7	10S	1.6	40S*	6	60S	13.4
79	CZ-RI-304	MP3288 (C)	10MS	6.0	10MS	1.5	20S	7.6	80S	35.9
80	CZ-RI-305	DBW 277	20S	9.0	20MS	4.1	40S*	6	60S	31.7
80A	INFECTOR	Infector	100S	66.7	100S	85.7	100S	71.3	100S	77.3
81	CZ-RI-306	DDW 47(d)* <sup>Q</sup>	40MR	5.8	5S	1.4	5S	0.7	10MS	1.1
82	CZ-LS-201	HD2932 (C)	20MS	8.4	40S	19.4	90S	34.6	80S	55.0
83	CZ-LS-202	HD2864 (C)	10S	2.8	40S*	6.5	20S	6	100S	61.8
84	CZ-LS-203	MP3336 (C)	40S	15.3	40S*	8.1	40S	19.3	100S	53.0
85	CZ-LS-204	MP4010 (C)	10MS	2.2	5S	0.7	20S	4.8	100S	60.2
86	CZ-LS-205	CG1029	10MS	3.0	5S	0.7	10S	2.5	100S	69.1
87	CZ-LS-206	UAS3002	10MS	4.2	40S*	10.6	60S	24.8	100S	48.9
88	CZ-LS-207	HI1633	20MS	3.4	10S	1.5	20S	3.9	100S	46.6
89	CZ-LS-208	HI1634	5MS	1.0	10S	1.4	10S	3.1	100S	46.6
90	CZ-LS-209	HI8808 (d)	10MS	5.4	20R	1.2	20S	2.7	30MS	6.3
91	CZ-LS-210	HI8807 (d)	20MS	3.3	5MS	0.6	20S	2.8	20MS	3.4
<b>V. Peninsular Zone</b>										
92	PZ-TS-101	PBW 823 <sup>B</sup>	20MS	3.7	5S	0.7	10S	1.4	10S	2.7
93	PZ-TS-102	UAS428 (d) (C)	30MS	4.8	20MR	2.3	10MS	1.9	10S	3.6
94	PZ-TS-103	DDW 49 (d)	40S	13.7	40S*	13.1	40S	12.4	30S	11.7
95	PZ-TS-104	UAS 3001	20S	8.1	60S	18.7	60S	21.3	80S	41.1
96	PZ-TS-105	MACS3949 (d) (C)	30S	7.3	20S	5.2	10S	2.3	20MS	3.7
97	PZ-TS-106	MACS6222 (C)	10MS	3.0	5S	0.7	10S	1.3	80S	27.4
98	PZ-TS-107	GW 322 (C)	40S	17.0	20S	4.3	40S	15.9	80S	46.1
99	PZ-TS-108	DDW 48 (d)	20S	6.7	20MS	2.6	15S	2.4	60S	15.0
100	PZ-TS-109	MACS6478 (C)	60S	34.7	15MS	6.9	30S	9.9	100S	49.8
100A	INFECTOR	Infector	100S	70.0	100S	85.7	100S	76.3	100S	71.8
101	PZ-TS-110	HD3343 <sup>M</sup>	40S	24.7	80S*	15.1	90S	24.3	60S	42.0
102	PZ-TS-111	WHD 963 (d)	40S*	11.3	10MS	3.8	30MS	4.9	20S	5.5
103	PZ-LS-201	HI8807(d)	20MS	5.3	20MS	3.5	20S	3.8	20MS	4.4
104	PZ-LS-202	HI1633	10MS	1.7	10S	1.7	40S*	6.5	80S	44.3
105	PZ-LS-203	UAS 3002	30S	9.7	60S	16.1	80S	19.5	80S	36.2
106	PZ-LS-204	Raj4083 (C)	20MS	6.0	40S	9.3	40S	11.5	40S	16.3

107	PZ-LS-205	HD2932 (C)	20S	10.3	60S	16.7	80S	31.6	100S	51.6
108	PZ-LS-206	GW509	30MS	8.8	10MS	1.2	20MS	3.8	80S	41.4
109	PZ-LS-207	HD3090 (C)	40MR	5.7	TR	0.1	10S	3.3	100S	48.4
110	PZ-RI-301	NIAW 3170*	10MS	4.3	10S	2.5	15S	3.6	40S	14.9
111	PZ-RI-302	GW 1346(d)*	10S	2.5	5MR	0.3	15S	3.5	100S	33.0
112	PZ-RI-303	MACS 4058(d)*	20MS	7.0	20MS	3.9	20S	5.4	100S	34.8
113	PZ-RI-304	DBW93 (C)	5MS	2.3	60S*	14.6	40S	15	100S	51.5
114	PZ-RI-305	HI 8805(d)*	5S	1.7	10MS	1.9	40S	8.1	20S	4.2
115	PZ-RI-306	AKDW2997-16(d) (C)	40S	14.3	10MS	2.3	10S	4.1	30S	8.8
116	PZ-RI-307	MACS 6695*	30S	15.7	60S	22.0	90S	30.6	80S	56.5
117	PZ-RI-308	UAS446(d) (C)	20S	7.7	10S	1.5	10S	2.3	10MR	1.2
118	PZ-RI-309	HI1605 (C)	20S	7.6	40S	13.2	40S	16.5	40S	22.4
119	PZ-RI-310	MACS 6696*	40S	15.2	60S	26.9	90S	29.8	80S	48.5
120	PZ-RI-311	NIDW 1149(d)	40MR	6.0	5MS	0.8	30MS	5.5	10S	3.0
120A	INFECTOR	Infector	100S	66.7	100S	82.9	100S	75	100S	74.5
121	PZ-RI-312	HI 8802(d)*	20S	5.0	10MR	1.2	20S	3.2	20S	2.9
<b>VI. Special Trial (Dicocum)</b>										
122	DIC-IR-101	DDK1029 (C)	5MS	0.7	TR	0.1	10S	2.8	60S	27.2
123	DIC-IR-102	MACS5052	10MS	2.3	TR	0.0	5S	1.3	60S	31.4
124	DIC-IR-103	MACS6222 (aest.) (C)	10MS	2.8	0	0.0	10S	1.9	60S	25.7
125	DIC-IR-104	DDK1056	5MS	1.0	TR	0.0	10S	2.4	60S	29.5
126	DIC-IR-105	HW1098 (C)	10MR	0.8	TR	0.0	10S	4.3	40S	25.5
127	DIC-IR-106	MACS5053	5S	1.7	20S	2.9	20S	3	60S	24.5
128	DIC-IR-107	DDK1057	5MS	1.5	TR	0.0	30S	5.4	60S	26.5
<b>VII. Special Trial- SPL-HYPT</b>										
129	SPL-HYPT-1	HD3317	10MS	5.0	15MS	4.1	40S	15	20S	8.0
130	SPL-HYPT-2	WH1254	30S	8.3	60S*	11.2	5S	0.6	20S	6.5
131	SPL-HYPT-3	DBW301	40S	14.4	10MS	2.8	TR	0.1	5R	0.1
132	SPL-HYPT-4	WH1270	5S	1.0	20S	3.4	20S	4.4	30S	4.5
133	SPL-HYPT-5	HD2967 (C)	40S	23.2	10MS	1.4	15S	6.8	60S	33.4
134	SPL-HYPT-6	PBW824	20S	12.0	10MS	2.0	15S	2.8	50S	22.8
135	SPL-HYPT-7	UP3043	40S	36.8	10MS	1.5	15S	3.8	20S	5.0
136	SPL-HYPT-8	DBW187	40MS	12.8	10MS	2.7	30S	8.3	30S	6.9
137	SPL-HYPT-9	HD3086 (C)	60S	28.0	40S	10.3	60S	16.9	30S	5.8
138	SPL-HYPT-10	DBW303	20MS	5.2	10MS	2.8	10S	2.4	20S	9.5
139	SPL-HYPT-11	DBW304	20MS	7.2	40MS	5.4	20S	4.2	40S	10.5
140	SPL-HYPT-12	UP3042	60S	27.2	10MS	1.7	5MR	0.5	20MS	8.1
140A	INFECTOR	Infector	100S	70.0	100S	86.7	100S	80	100S	74.5
141	SPL-HYPT-13	DBW302	20S	6.1	30S	5.0	5S	0.9	20MS	4.5
142	SPL-HYPT-14	PBW825	10MS	6.7	10S	2.8	30S	6.4	40S	15.4

143	SPL-HYPT-15	HD3347	40MS	18.7	40S	13.3	90S	30.8	30S	8.6
<b>VIII. Special Trial ( SPL-AST)</b>										
144	SPL-AST-101	WH1223	20S	11.4	20S	6.4	30S	8.9	15S	4.3
145	SPL-AST-102	KRL19 (C)	40S	13.2	60S*	11.7	70S	31.8	100S	63.8
146	SPL-AST-103	Kharchia65 (C)	100S	42.5	100S	68.6	70S	52.5	100S	76.4
147	SPL-AST-104	NW 7060	60S	27.1	40S	10.0	10S	3.1	10S	4.4
148	SPL-AST-105	KRL210 (C)	40S	25.8	20MS	6.6	60S	26.9	10S	3.2
149	SPL-AST-106	WH 1228	40S	17.4	40S*	8.6	60S	19.4	10S	3.9
150	SPL-AST-107	NW 7062	40MR	5.9	40S	12.1	80S	32.4	60S	36.0
<b>IX. Special Trial (SPL-VLS )</b>										
151	SPL-VLS-101	PBW757 (C)	20MS	7.0	20S	2.9	20S	4.5	60S	16.6
152	SPL-VLS-102	WR544 (C)	40S	17.2	40S	12.1	70S	22.4	80S	55.2
153	SPL-VLS-103	HD3298	30S	18.3	60S*	10.8	30S	6.2	60S	9.8
154	SPL-VLS-104	HD3271	30S	15.7	20MS	4.2	40S*	5.8	40S	8.4
155	SPL-VLS-105	DBW14 (C)	20MS	9.3	40S*	6.4	20S	7.2	60S	27.5
156	SPL-VLS-106	DBW71 (C)	20S	13.4	40S	11.6	50S*	12.5	20S	6.4
157	SPL-VLS-107	HI1621	20S	8.1	60S*	12.0	40S	12.5	20S	6.4
158	SPL-VLS-108	PBW 797	60S	38.7	20MS	2.6	20S	4.1	10S	5.1
158A	INFECTOR	Infector	100S	70.0	100S	80.0	100S	77.5	100S	74.5
<b>Performance of NIVT entries against rusts under multilocational testing during 2018-19</b>										
S. No.	Code	Entries	RUSTS							
			STEM		LEAF				STRIPE	
			SOUTH		SOUTH		NORTH		NORTH	
			HS	ACI	HS	ACI	HS	ACI	HS	ACI
<b>NIVT-1A</b>										
1	N-101	NW7060	40S	23.7	20S	4.6	10S	3.9	10S	4.2
2	N-102	DBW282	80S	22.7	20S	3.5	20S	5.1	10S	2.3
3	N-103	HD3086 (C)	80S	36.3	40MS	8.7	60S	25.6	15S	5.7
4	N-104	HD3318	40S*	10.3	20S	5.6	40S	11.9	40S	16.1
5	N-105	HD2967 (C)	40S*	10.2	40S	10.4	40S	11.3	60S	32.4
6	N-106	Raj4539	40S*	10.7	20S	3.2	15S	4.9	20S	9.7
7	N-107	NABIMG 09	60S	22.7	10S	1.6	10S	2.1	60S	32.5
8	N-108	HD3323	80S	29.3	30MR	4.9	20S	4.0	10S	4.5
9	N-109	UP3028	40S	12	60S*	11.5	40S	11.8	20S	9.7
10	N-110	K1801	20S	10.7	60S*	11.2	40S	10.7	60S	22.1
11	N-111	WH1256	20MR-MS	4	40S*	5.8	10S	2.7	5S	1.1
12	N-112	HUW 833	20S	5.7	5S	1.3	10S	3.2	20S	10.8
13	N-113	UP3026	60S	22.7	40S	10.2	10S	2.9	10S	2.3
14	N-114	WH1257	40S	11	10MS	3.6	20S	9.4	20S	6.7
15	N-115	HD3319	20S	5.2	10S	2.6	20S	7.0	10MS	1.7

16	N-116	HD3320	60S	24	40S	14.3	70S	27.5	40S	11.8
17	N-117	DBW281	80S	42.7	40S	8.3	80S	21.9	40MS	9.4
18	N-118	HD3322	80S	45	10S	3.9	70S	13.0	20S	3.7
19	N-119	NABIMG 11	60S	29	60S*	12.9	40S*	12.1	60S	19.8
20	N-120	DBW284	80S	31.3	40S*	10.4	60S*	10.8	20S	5.7
20A	INFECTOR	Infector	100S	76.7	100S	80.0	100S	75.0	100S	70.0
21	N-121	Raj4537	40S	13.4	20S	4.6	20S	4.7	30MS	9.6
22	N-122	PBW803	60S	27.6	30MS	5.3	20S	5.1	10S	3.4
23	N-123	UP3025	60S	34.8	80S*	24.9	80S	22.6	10S	1.6
24	N-124	HD3321	60S	17	20S	4.0	15S	3.1	10S	3.9
25	N-125	WH1255	80S	18	40S*	7.1	20S	4.0	40MS	9.6
26	N-126	DBW283	80S	20.1	40S*	5.7	40S*	7.7	10S	2.5
27	N-127	NABIMG 10	80S	29.7	10S	2.6	15S	2.3	40S	17.6
28	N-128	PBW805	60S	25.5	80S*	20.6	40S	25.0	10S	5.3
29	N-129	NW7067	40S	18.7	10S	1.5	20S	7.3	40S	16.8
30	N-130	UP3027	40S*	11	40S*	7.1	5S	2.4	20S	10.9
31	N-131	PBW802	80S	20.1	40S*	7.3	60S	15.1	20S	2.6
32	N-132	WH1258	60S	19.3	40S*	5.8	60S*	11.0	10MS	2.3
33	N-133	PBW804	10S	3.3	40S	8.6	20S	4.1	20MR	3.9
34	N-134	K1006 (C)	40S	15.4	60S*	10.5	80S	15.9	60S	27.5
35	N-135	Raj4538	40S*	12	40S*	6.3	20S	5.1	20S	10.7
36	N-136	DBW88 (C)	60S*	15.4	20S	4.1	10S	2.6	60S	37.8
<b>NIVT-1B</b>										
37	N-201	HD2967 (C)	40S	12.3	20MS	3.9	15S	5.4	60S	31.6
38	N-202	HD3326	60MS	11.7	40S*	7.4	15S	5.3	20MS	4.9
39	N-203	HUW834	10S	3	20S	6.6	70S	19.6	40S	11.1
40	N-204	K1803	60S*	18	20S	7.1	60S	16.6	60S	20.0
40A	INFECTOR	Infector	100S	70	100S	80.0	100S	75.0	100S	69.1
41	N-205	DBW286	20MS	4.7	20S	3.5	20S	3.3	40MS	6.7
42	N-206	DBW287	10MS	3.3	60S*	9.8	20S	4.1	10S	3.5
43	N-207	UP3029	20S	5.5	20MS	4.0	10S	3.8	10S	2.8
44	N-208	Raj4540	10MS	3.3	10MS	1.4	15S	2.5	40S*	7.8
45	N-209	DBW88 (C)	40S	15.4	10S	1.5	40S	7.8	60S	29.9
46	N-210	NW7064	40S	19	20S	4.6	20S	5.8	10S	3.0
47	N-211	UP3031	60S	26.7	20MS	5.6	30S	11.3	10S	3.9
48	N-212	PBW807	10S	5	60S	15.9	50S	11.8	40MR	6.1
49	N-213	BRW3829	40S*	8.8	20S	5.3	40MS	12.3	60S	26.0
50	N-214	NWS2106	40S	23.4	40S	14.0	40S	14.0	60S	21.0
51	N-215	WH1259	80S	28.4	60S*	14.1	20S	5.1	5S	1.6
52	N-216	HUW835	40S	11.3	10MS	2.5	15S	5.9	40S	19.2
53	N-217	Raj4541	40S	13.7	10S	2.2	20S	5.0	40S	14.8

54	N-218	PBW808	40S	17.3	20S	4.9	20S	3.2	20MS	4.6
55	N-219	DBW305	60S	24.7	10S	3.7	20S	8.0	60S	15.6
56	N-220	HD3327	20MS	7.1	10S	2.7	15S	2.6	10S	3.5
57	N-221	BRW3838	20S	7	40S*	7.8	40S	11.5	60S	19.0
58	N-222	HD3328	40S*	11.3	10S	2.0	40S	6.3	20S	10.7
59	N-223	NW7057	40S	13.5	20MS	3.7	15S	1.9	10S	6.0
60	N-224	DBW288	60S	39.3	10MS	3.1	15S	2.1	20S	5.9
60A	INFECTOR	Infector	100S	70	100S	81.7	100S	73.8	100S	77.3
61	N-225	HD3086 (C)	60S	34.1	20MS	4.3	30S	10.1	40S	7.5
62	N-226	NW7075	60S	29.3	20MS	4.2	80S*	24.3	60S	40.0
63	N-227	K1006 (C)	60MS	25.3	60S*	9.9	80S*	14.4	60S	35.2
64	N-228	K1804	20MS	7.3	80S*	25.7	40S	18.1	40S	25.1
65	N-229	WH1260	60S	31.5	20S	4.8	10S	2.6	30S	6.2
66	N-230	HD3325	40S	20	20S	4.7	20S	6.1	30S	6.3
67	N-231	UP3030	20S	6.3	10MS	1.2	15S	3.1	40S	12.9
68	N-232	DBW285	80S	34.7	20S	4.1	20S	8.1	40S	12.8
69	N-233	K1805	40S	15.3	40S*	12.0	20S	2.7	10S	2.9
70	N-234	HD3324	60S*	15.2	20S	8.6	15S	3.0	5S	0.7
71	N-235	KRL429	80S	34.7	10S	3.4	10S	3.3	40S	22.8
72	N-236	KRL423	5S	2.3	60S*	9.6	30S	7.6	10S	3.8
<b>NIVT-2</b>										
73	N-301	MP3522	80S*	18.7	10MS	1.2	40S*	5.2	40S	13.2
74	N-302	NIAW3592	20S	3.8	5S	0.7	40S*	8.1	60S	39.3
75	N-303	DBW289	40S	10.7	20MS	2.9	20S	10.0	80S	44.6
76	N-304	NIAW3584	30S	7.3	40S*	7.0	50S*	11.3	60S	30.8
77	N-305	WH1262	20MS	4.4	20S	3.1	10S	4.1	20MS	4.0
78	N-306	HI1636	5MS	0.7	TMR	0.1	40S*	7.4	80S	60.9
79	N-307	HI1637	10S	2	0	0.0	10S	1.9	80S	50.9
80	N-308	HI1638	10S	3	5S	0.8	10S	2.4	80S	42.5
80A	INFECTOR	Infector	100S	70	100S	82.9	100S	73.8	80S	71.8
81	N-309	TAW155	40S	20	20S	6.0	10S	3.2	10S	6.6
82	N-310	HI1640	10S	3.3	20S	2.9	20S	4.3	80S	57.6
83	N-311	HI1639	20MS	5.3	20S	3.2	20S	4.4	80S	54.9
84	N-312	HW 1904	5MS	0.7	5MS	0.6	15S	3.1	60S	34.9
85	N-313	MP3521	5S	1.8	10MS	1.9	20S	7.5	80S	44.5
86	N-314	RVW4265	60S*	12	10MS	1.9	15S	2.1	20S	3.8
87	N-315	MP1359	40S*	11.7	20S	5.5	40S	17.5	40S	17.9
88	N-316	MP1361	40S*	9	10S	1.7	10S	2.2	15S	5.2
89	N-317	GW322 (C)	40S*	11.7	60S*	9.3	50S*	15.2	60S	32.6
90	N-318	UAS3006	60S*	11.7	5S	0.8	15S	7.4	60S	40.9
91	N-319	MP1360	40S*	6.8	60S*	9.4	60S*	9.2	60S	10.7

92	N-320	MACS6742	10S	2.7	10S	1.5	20S	6.1	60S	44.2
93	N-321	MACS6745	20S	6	5MS	0.9	15S	4.1	80S	55.8
94	N-322	NWS2118	60MS	20	10MS	2.0	50S	18.1	60S	25.0
95	N-323	CG1031	60S	26	20MS	2.9	30S	14.4	40S	11.7
96	N-324	RVW4266	10S	3	20S	3.6	60S*	8.8	80S	40.5
97	N-325	TAW153	40S*	10.3	5MS	0.9	30S	6.3	40S	13.8
98	N-326	PBW810	60S	22.1	5S	2.0	20S	9.6	40S	13.3
99	N-327	UP3032	20S	4	TR	0.0	15S	3.1	15S	7.2
100	N-328	Raj4542	40S	13.7	10S	2.7	10S	1.9	40S*	7.4
100A	INFECTOR	Infector	100S	65	100S	65.7	100S	77.5	100S	70.9
101	N-329	UAS3005	80S	19.4	10S	3.1	20S	6.4	80S	48.2
102	N-330	NWS2108	80S	29.3	60S*	11.4	20S	5.3	80S	41.7
103	N-331	GW513	20S	4.3	TR	0.0	20S	4.8	80S	58.0
104	N-332	GW514	40S*	9.3	0	0.0	5S	1.4	80S	48.9
105	N-333	MACS6747	40S*	8.3	10MS	1.2	10S	1.9	60S	31.3
106	N-334	MACS6222 (C)	20S	4	5S	0.7	5S	0.7	50S	21.8
107	N-335	MACS6478 (C)	80S	33	20MS	4.3	20S	4.4	80S	48.3
108	N-336	HI1544 (C)	20S	4	TR	0.1	10S	2.5	80S	49.0
<b>NIVT-3A</b>										
109	N-401	UP3033	10S	2.4	40S*	5.8	20S	4.9	40S	10.4
110	N-402	WH1264	60S	19.7	20S	3.9	10S	3.2	20S	6.6
111	N-403	PBW811	60S	21.5	60S*	11.4	20S	8.9	20S	5.5
112	N-404	UP3035	40S	11.4	40S*	8.3	40S	13.9	40S	16.2
113	N-405	WH1263	80S	23.3	TMS	0.3	20S	8.4	10S	4.3
114	N-406	PBW814	80S	26.3	10MS	2.7	40S*	5.6	10S	4.0
115	N-407	JKW267	40S*	8.7	40S*	7.6	15S	3.4	15S	3.3
116	N-408	DBW173 (C)	30S	5.7	TR	0.0	10S	2.3	40S	12.6
117	N-409	HD3329	60S	19.7	60S*	16.0	40S*	6.6	20S	7.5
118	N-410	HD3330	60S	21.3	40S*	6.1	60S	15.3	10S	4.8
119	N-411	JAUW 673	40S*	8.5	40S*	5.7	20S	4.4	10S	2.0
120	N-412	HD3059 (C)	60S*	16	10MR	0.6	15S	1.9	60S	29.0
120A	INFECTOR	Infector	100S	73.3	100S	80.0	100S	71.3	100S	71.8
121	N-413	HD3334	40S*	9.1	5S	0.8	30S	9.6	20S	5.9
122	N-414	Raj4544	60MS	12.5	20S	4.9	10S	2.3	60S*	10.5
123	N-415	DBW292	20S	7.7	60S*	10.9	20MS	6.4	20S	7.4
124	N-416	K1808	80S	29.7	10S	3.3	30S	8.4	30S	9.5
125	N-417	UP3034	40S	17	60S*	11.1	30S	7.3	30S	6.7
126	N-418	JKW261	60S	31.3	5MR	0.4	15S	1.9	30S	8.8
127	N-419	WH1266	40S*	9.4	20S	9.9	40S	8.3	10MS	2.6
128	N-420	DBW291	60S	29.3	10S	1.6	20S	6.0	5S	1.0
129	N-421	DBW107 (C)	80S	30.7	60S	11.5	20MS	3.5	10S	3.9



130	N-422	JKW268	80S	33.5	30MS	9.4	40S	10.6	20S	7.6
131	N-423	DBW294	40S*	9.2	0	0.0	10S	1.3	20S	5.6
132	N-424	HD3332	60S	34.7	20S	5.9	20S	5.3	20S	5.9
133	N-425	NW7062	80S	28.8	5R	0.1	5S	1.5	40S	14.7
134	N-426	HD3333	80S	24.3	60S*	12.6	50S	9.1	60S	21.1
135	N-427	DBW290	80S	26	10S	2.6	10S	2.5	20S	6.5
136	N-428	WH1265	60S	27.3	10MS	1.1	20S	8.5	30S	5.4
137	N-429	PBW812	60S	28.2	30S	9.7	20S	4.8	10S	2.8
138	N-430	PBW813	80S	46	60S*	13.5	5S	1.9	5R	0.2
139	N-431	DBW293	80S	44	80S*	16.0	50S*	14.5	30S	9.5
140	N-432	HD3331	60S	34	60S*	12.0	30S	6.8	60S*	8.6
140A	INFECTOR	Infector	100S	73.3	100S	81.4	100S	72.5	100S	73.6
141	N-433	NW7053	60S	22	TMS	0.1	5S	0.8	40S	11.7
142	N-434	HI1563 (C)	60MR	6.3	TR	0.0	10S	1.9	80S	49.7
143	N-435	Raj4543	60MR	5.2	60S*	8.7	40S	11.8	60S	25.6
144	N-436	K1807	20S	6.5	20MS	3.0	20S	12.4	60S	27.5
<b>NIVT-3B</b>										
145	N-501	CG1032	40MR	4.3	0	0.0	15S	4.1	80S	51.8
146	N-502	GW518	40MR	6.3	TMR	0.1	20S	5.5	80S	59.3
147	N-503	MACS6749	20S	5.4	0	0.0	15S	3.5	80S	48.9
148	N-504	NIAW3578	10S	5	80S*	13.6	20S	5.0	80S	51.6
149	N-505	UAS 3008	40S	20	5S	0.9	20S	7.5	60S	30.0
150	N-506	DBW295	40S	8.3	0	0.0	20S	3.1	10S	6.1
151	N-507	MP3514	40MR	4.7	60S*	8.7	40S*	9.9	60S	21.4
152	N-508	HI1641	20S	4.7	TR	0.0	40S*	7.4	80S	58.9
153	N-509	MACS6752	10S	3	10R	0.3	20S	5.0	80S	55.5
154	N-510	MP3516	40S	18.7	60S*	11.5	20S	7.6	60S	33.0
155	N-511	Lok75	60MR	9	5S	1.0	10S	3.6	80S	58.9
156	N-512	AKAW 4927	40MS	12	20MS	3.2	10S	1.3	80S	31.5
157	N-513	MP1362	40S*	13.4	20MS	3.3	40S	11.0	10S	5.9
158	N-514	RVW4281	60S	35.3	20S	9.4	40S	18.1	60S	21.7
159	N-515	WH1267	80MS	37	20S	5.0	20S	10.0	40S	11.1
160	N-516	GW519	60S	16	20S	3.2	30S	5.2	80S	55.6
160A	INFECTOR	Infector	100S	73.3	100S	80.0	100S	73.8	100S	71.8
161	N-517	HD3344	60S	18.1	5S	1.4	20S	5.1	60S	29.4
162	N-518	RVW4276	5S	2.2	0	0.0	10S	3.1	60S	28.4
163	N-519	HI1642	60MR	6	0	0.0	30S	6.9	80S	56.5
164	N-520	NIAW3583	5S	1.7	0	0.0	5MS	0.5	60S	21.6
165	N-521	HD2932 (C)	40S	11.3	40S*	14.3	40S	28.1	60S	43.0
166	N-522	HD2864 (C)	40S	10.9	TR	0.0	40S	11.9	80S	50.7
167	N-523	PBW815	60S*	11.7	TMR	0.1	20S	3.7	30S	7.8

168	N-524	HI1646	40S	12	60S	18.0	80S	30.0	60S	49.1
169	N-525	TAW154	40S	13	20MS	4.0	20S	6.8	40S	20.5
<b>NIVT-4</b>										
170	N-601	UAS470	40S	13.7	10MS	1.2	10MS	1.7	10S	2.7
171	N-602	GW1351	40S	12.9	10MS	2.9	40S	5.6	40MS*	7.4
172	N-603	HI8737 (C)	40S	12.4	5S	0.8	10S	1.3	10S	2.7
173	N-604	MPO1364	20MS	9.7	10R	0.3	15S	2.0	10MS	1.2
174	N-605	DDW51	40S*	12.2	10S	2.4	20S	4.8	20MS	1.9
175	N-606	GW1352	20S	5	10R	0.6	10MS	1.8	10S	2.9
176	N-607	HI8822	5S	1.5	TR	0.0	20S	3.0	10S	1.7
177	N-608	UAS471	40S*	9.5	20MS	4.0	10S	2.4	10S	1.6
178	N-609	PDW356	40S*	11.7	20MR	3.7	40S*	9.5	10S	1.5
179	N-610	DDW50	60S*	13.3	20R	0.6	20S	3.2	40S*	7.1
180	N-611	MPO1366	20S	6.7	5MS	3.2	20MS	5.4	20MR	1.2
180A	INFECTOR	Infector	100S	70	100S	80.0	100S	73.8	100S	70.0
181	N-612	HI8820	40S*	7.5	20S	4.6	30S	5.5	50S*	8.2
182	N-613	NIDW1316	60S*	15.7	40MS	6.3	40S	9.5	10S	2.3
183	N-614	WHD964	40S	13.8	20MS	5.5	20MS	3.8	20MS	3.6
184	N-615	MACS4091	40S	12	5S	1.7	20MS	4.4	20S	4.9
185	N-616	MACS3949 (C)	40S*	8.5	10S	2.9	10S	2.5	10S	2.5
186	N-617	HI8819	40S*	8.3	5S	1.9	20S	4.0	10MS	2.9
187	N-618	HI8713 (C)	20S	4.7	10S	2.2	10S	2.1	20S	4.2
188	N-619	NIDW1302	20S	3.7	20S	3.3	10S	1.4	5R	0.1
189	N-620	HI8821	20S	6.7	20MS	4.0	10MS	2.3	30S	3.9
190	N-621	RKD339	20S	5.3	10S	2.3	5MR	0.4	40S*	6.9
191	N-622	NIDW1293	10S	2.7	20MR	2.6	10S	3.7	20MS	5.8
192	N-623	MACS4090	20S	7.7	10S	3.1	10S	3.3	40S	11.3
193	N-624	MPO1365	40S*	8.8	20MR	2.1	5S	1.5	10S	3.5
194	N-625	HI8818	20S	4	10S	1.9	5S	0.8	10S	2.2
<b>NIVT-5A</b>										
195	N-701	BRW3847	80S	34	20MR	2.9	50S	9.4	40S	11.5
196	N-702	UP3037	60S	28	10MS	2.4	30S	5.9	20S	7.1
197	N-703	DBW298	80S	39.3	20MS	4.9	70S	20.7	10S	2.8
198	N-704	DBW297	60S	30	10MS	2.1	5S	1.8	10S	3.6
199	N-705	K1317 (C)	60S	23.5	10MS	2.3	40S	7.1	40S	15.4
200	N-706	DBW296	20S	6.7	20S	3.0	15S	4.4	10S	2.4
200A	INFECTOR	Infector	100S	73.3	100S	82.9	100S	71.3	100S	74.5
201	N-707	JAUW672	40S	20.1	20S	6.7	40S	8.9	10S	3.7
202	N-708	WH1268	80S	27.7	60S*	11.3	30S	11.5	30S	5.7
203	N-709	DBW299	20MR	6	20S	5.9	20S	5.9	20S	3.0
204	N-710	WH1269	60S	23.3	10MS	2.6	10S	1.3	10S	3.0

205	N-711	PBW817	60S	25	20MS	5.4	50S	17.4	20S	3.3
206	N-712	NW7069	80S	27.3	10MS	3.9	60S*	12.8	60S	16.0
207	N-713	HD2888 (C)	10S	3.3	10MS	1.2	20S	3.0	60S	26.4
208	N-714	HD3339	60S	26.7	20S	6.3	50S	15.9	30S	9.7
209	N-715	HUW838	20S	6	10MS	2.1	15S	2.3	20S	7.5
210	N-716	K1810	40S	16.7	10MS	1.4	30S	4.5	40S	12.6
211	N-717	HD3337	20S	8.3	20S	3.5	15S	3.1	10S	3.2
212	N-718	K1809	30S	12.7	10MS	1.4	15S	3.6	40S	17.6
213	N-719	HD3336	60S	38	10S	4.0	80S*	21.1	20S	4.5
214	N-720	UP3036	80S	44	20MS	2.8	20S	4.9	10S	4.1
215	N-721	WH1142 (C)	40S*	10.1	60S*	11.5	40S	17.0	20S	5.5
216	N-722	PBW644 (C)	40S	20.7	20S	3.5	70S	19.9	60S	20.2
217	N-723	HD3338	20S	10.3	20S	2.9	30S	3.9	20S	5.6
218	N-724	HD3335	60S	24.7	20S	8.9	80S	21.6	40S	16.2
219	N-725	PBW816	60S	30.7	20MS	7.1	30S	6.5	20S	6.6
<b>NIVT-5B</b>										
220	N-801	MACS6736	40MS	12	40S	22.3	80S	35.0	80S	41.7
220A	INFECTOR	Infector	100S	70	100S	82.9	100S	73.8	100S	70.9
221	N-802	MACS4087(d)	40S	13	10S	1.9	20S	4.4	40S	13.9
222	N-803	MPO1357(d)	10S	4	10S	2.5	20S	2.8	5S	1.6
223	N-804	GW520	5MS	1.7	5MR	0.3	15S	2.9	60S	35.3
224	N-805	GW1353(d)	10S	2.7	TR	0.0	20S	6.1	80S	45.1
225	N-806	UAS472(d)	40MS	11	10MS	2.8	20S	3.0	40S*	6.9
226	N-807	HI1605 (C)	40S*	8.2	40MS	9.0	40S	14.1	40S	14.8
227	N-808	HI8627(d) (C)	40S*	8	10MR	0.9	20S	3.8	20S	2.6
228	N-809	HI1645	20S	4	0	0.0	15S	2.9	80S	36.3
229	N-810	UAS446(d) (C)	40S	10.5	5S	1.8	10S	2.5	20S	4.5
230	N-811	UAS3009	80S	28	10MS	1.6	5S	1.5	60S	24.5
231	N-812	UAS3010	60S	18.8	40S	14.0	30S	13.8	60S	23.5
232	N-813	DBW110 (C)	60MS	23.4	10MS	2.8	40S	9.9	60S	41.1
233	N-814	CG1033	40S	11	10MS	1.4	30S	6.4	80S	58.2
234	N-815	HI1643	5S	1.8	5MR	0.3	20S	4.4	80S	60.9
235	N-816	HI1644	10MS	1.8	TMR	0.1	20S	3.9	80S	60.5
236	N-817	NIAW3643	60MS	12.5	20S	2.9	20S	3.6	80S	62.0
237	N-818	NIAW3624	10MS	2.8	20MS	2.6	20S	5.3	80S	62.7
238	N-819	HI8823(d)	10MS	2	10MS	1.9	30S	4.0	30S	6.5
239	N-820	HI8824(d)	20S	5.3	10MS	1.9	20S	3.4	30S	6.3
240	N-821	DBW300	40S	11.3	10MS	1.2	20S	4.2	40S	14.5
240A	INFECTOR	Infector	100S	73.3	100S	82.9	100S	76.3	100S	70.9
241	N-822	DDW52(d)	40S*	8	20S	4.6	10S	2.5	20S	5.1
242	N-823	MP3512	80MR-MS	20.4	40S	20.6	70S	36.3	60S	46.5

243	N-824	MP1356	60S	18.1	60S*	10.5	10S	4.8	60S	28.5
244	N-825	MP1358	60S*	14.2	10S	2.4	10S	2.5	10S	3.2
<b>IVT( NHZ)</b>										
245	NHIVT-01	HPW462	40S*	9.8	60S*	10.4	20MS	2.8	10S	4.3
246	NHIVT-02	HPW466	60S	19.3	80S*	17.1	40S	11.3	20S	6.0
247	NHIVT-03	VL2038	40MS*	6.3	10S	1.6	20S	7.5	20S	4.7
248	NHIVT-04	VL2037	60S*	16.7	5S	0.9	5S	1.5	15S	2.7
249	NHIVT-05	HS507 (C)	60MS*	10.1	5MS	0.9	15S	4.5	20S	8.1
250	NHIVT-06	UP3038	60S	36.3	60S*	12.4	70S	24.6	50S	26.1
251	NHIVT-07	VL2035	80S	32	20MS	3.0	50S*	10.5	20S	7.0
252	NHIVT-08	HS667	60MS	17.7	20MS	4.8	20S	4.9	20MR	1.6
253	NHIVT-09	HS668	40S	13	60S*	14.0	40S*	8.6	20S	5.8
254	NHIVT-10	HS669	60MS*	9.3	5MR	0.3	10S	2.5	10S	4.8
255	NHIVT-11	UP3039	60MS	19.7	80S*	11.6	20S	5.1	5S	1.7
256	NHIVT-12	HS562 (C)	80S	38	60S*	12.3	30S	7.6	40S*	6.1
257	NHIVT-13	VL2036	40S	18.7	20S	5.1	20S	5.4	10S	3.2
258	NHIVT-14	HPW464	20S	12	20S	6.9	15S	3.6	10S	3.5
259	NHIVT-15	HPW463	20S	6.4	60S*	9.1	10S	2.5	20S	6.2
260	NHIVT-16	HD3340	20S	7.3	60S*	10.9	40S	15.3	40MS	8.2
260A	INFECTOR	Infector	100S	76.7	100S	85.7	100S	73.8	100S	71.8