

## Appendix A Resistance reaction evaluation of 136 rice varieties in pot and field experiment

Subpopulation	Variety	Origin	Pot experiment			field experiment	
			Number of nematode in root	Root gall index	Resistance reaction	Root gall index	Resistance reaction
<i>aus</i>	Zhonghua11	Tianjin	2.4	2.2	HR	4	HR
<i>aus</i>	Wuyoudao4	Heilongjiang	17.4	28.5	MS	30	MS
<i>aus</i>	Huanghuazhan	Guangdong	21.5	38.5	MS	50	MS
<i>aus</i>	Nongxiang32	Hunan	28.6	25.4	MS	50	MS
<i>aus</i>	Guangliangyou1128	Hunan	28.4	33.8	MS	44	MS
<i>aus</i>	Keliangyou529	Hunan	37.2	64.3	S	62	S
<i>aus</i>	Mounuo1	Henan	38.6	52.9	S	66	S
<i>aus</i>	Liangeng8	Jiangsu	35.1	47.8	MS	58	S
<i>aus</i>	Liannuo1	Jiangsu	30.3	42.6	MS	60	S
<i>aus</i>	Zhongzao39	Zhejiang	17.4	32.9	MS	52	S
<i>aus</i>	Zhongjiazao17	Zhejiang	27.6	44.9	MS	64	S
<i>aus</i>	Lingliangyou741	Hunan	45.7	68.4	S	90	HS
<i>aus</i>	Xiangzaoxian6	Hunan	47.5	75.4	HS	96	HS
<i>aus</i>	Guangliangyou1813	Anhui	57.4	61.4	S	92	HS
<i>aus</i>	Xiangzaoxian45	Hunan	50.3	71.6	S	84	HS
<i>aus</i>	Xiangwanxian17	Hunan	45.7	50.7	S	82	HS
<i>hybrid aus</i>	Shenliangyou1	Hunan	5.3	3.3	HR	2	HR
<i>hybrid aus</i>	Xiangfengzao1	Hunan	19.6	30.2	MS	34	MS
<i>hybrid aus</i>	Dyou162	Sichuan	25.3	28.1	MS	48	MS
<i>hybrid aus</i>	Guangliangyou100	Anhui	14.6	23.1	R	44	MS
<i>hybrid aus</i>	Yuzhenxiang	Hunan	19.6	28.8	MS	42	MS
<i>hybrid aus</i>	Shangyou518	Hunan	17.2	23.2	R	36	MS
<i>hybrid aus</i>	Bingyou98	Sichuan	13.8	22.4	R	30	MS
<i>hybrid aus</i>	Cliangyou386	Hunan	37.0	37.2	MS	36	MS
<i>hybrid aus</i>	Ilyou416	Hunan	12.7	19.8	R	26	MS
<i>hybrid aus</i>	Shenyou9595	Hunan	13.8	15.7	R	30	MS
<i>hybrid aus</i>	Yliangyou1998	Hunan	13.3	27.6	MS	46	MS
<i>hybrid aus</i>	Longliangyouhuazhan	Hunan	26.7	31.9	MS	48	MS
<i>hybrid aus</i>	Aoliangyou76	Hunan	18.6	27.3	MS	46	MS
<i>hybrid aus</i>	Zhunliangyou527	Hunan	47.3	58.6	S	34	MS
<i>hybrid aus</i>	Yliangyou199	Chongqing	13.3	16.4	R	30	MS
<i>hybrid aus</i>	Yliangyou2	Hunan	10.5	12.3	R	26	MS
<i>hybrid aus</i>	Tanliangyou215	Hunan	15.0	20.4	R	24	R
<i>hybrid aus</i>	Tanliangyou921	Hunan	16.5	9.4	R	14	R
<i>hybrid aus</i>	Shenliangyou5814	Guangdong	14.3	12.5	R	18	R
<i>hybrid aus</i>	Keliangyou889	Hunan	11.8	7.6	R	18	R
<i>hybrid aus</i>	Liangyou3905	Anhui	34.0	56.2	S	62	S
<i>hybrid aus</i>	Heshengliangyou25	Hubei	25.4	41.3	MS	72	S

**Appendix A (continued) Resistance reaction evaluation of 138 rice varieties in pot and field experiment**

Subpopulation	Variety	Origin	Pot experiment			field experiment	
			Number of nematode in root	Root gall index	Resistance reaction	Root gall index	Resistance reaction
<i>hybrid aus</i>	Xiangliangyou396	Hunan	25.3	26.7	MS	54	S
<i>hybrid aus</i>	Yliangyou837	Hunan	34.2	48.1	MS	62	S
<i>hybrid aus</i>	Tyou300	Hunan	23.7	36.9	MS	64	S
<i>hybrid aus</i>	Zhunliangyou608	Hunan	45.0	50.3	S	80	HS
<i>hybrid aus</i>	Keyou21	Hunan	58.1	80.6	HS	92	HS
<i>hybrid aus</i>	Yliangyou143	Hunan	47.6	70.8	S	92	HS
<i>hybrid aus</i>	Yueyou9113	Hunan	49.3	72.8	S	88	HS
<i>hybrid aus</i>	Wangliangyou1133	Hunan	46.6	76.1	HS	96	HS
<i>hybrid aus</i>	Guangliangyou2010	Hunan	47.3	65.3	S	82	HS
<i>hybrid aus</i>	Lingliangyou741	Hunan	43.7	82.6	HS	88	HS
<i>hybrid aus</i>	Yanliangyou2208	Jiangsu	54.2	61.3	S	92	HS
<i>hybrid indica</i>	Rongyou368	Guangdong	12.2	2.2	HR	4	HR
<i>hybrid indica</i>	Cliangyou4418	Hunan	8.6	4.4	HR	2	HR
<i>hybrid indica</i>	Shengtaiyou352	Hunan	43.1	55.8	S	50	MS
<i>hybrid indica</i>	Boyoyou225	Hainan	22.1	19.1	R	36	MS
<i>hybrid indica</i>	Shenyou9586	Guangdong	27.6	33.4	MS	40	MS
<i>hybrid indica</i>	Jiuliangyouhuanghuazhan	Hunan	31.3	36.5	MS	46	MS
<i>hybrid indica</i>	Shenyou9520	Hunan	30.8	40.2	MS	42	MS
<i>hybrid indica</i>	Yueyou9264	Hunan	28.7	37.1	MS	44	MS
<i>hybrid indica</i>	Jianongnuo528	Henan	28.5	36.9	MS	34	MS
<i>hybrid indica</i>	Fengleliangyou6206	Anhui	12.8	14.4	R	24	R
<i>hybrid indica</i>	BoIlyou818	Hainan	14.7	8.3	R	20	R
<i>hybrid indica</i>	Longliangyou340	Hunan	14.5	19.1	R	18	R
<i>hybrid indica</i>	Longxiangyou3206	Hunan	32.9	16.7	R	22	R
<i>hybrid indica</i>	Jinchuyou148	Hubei	20.1	18.6	R	20	R
<i>hybrid indica</i>	Tyou207	Hunan	24.8	27.9	MS	52	S
<i>hybrid indica</i>	Rongyou390	Guangdong	41.7	59.7	S	72	S
<i>hybrid indica</i>	Shengtaiyou9712	Hunan	37.4	50.8	S	72	S
<i>hybrid indica</i>	Tyou207	Hunan	24.8	43.7	MS	62	S
<i>hybrid indica</i>	Shengyou9586	Guangdong	27.6	51.9	S	62	S
<i>hybrid indica</i>	Yueyou9264	Hunan	28.7	48.4	MS	72	S
<i>hybrid indica</i>	Taoyouxiangzhan	Hunan	39.6	51.2	S	70	S
<i>hybrid indica</i>	BoIlyou223	Hainan	39.4	61.1	S	62	S
<i>hybrid indica</i>	Xieyou9308	Zhejiang	28.6	44.9	MS	54	S
<i>hybrid indica</i>	Longliangyou534	Hunan	28.4	40.1	MS	56	S
<i>hybrid indica</i>	Fenhyuanyouhuazhan	Hunan	22.6	28.2	MS	60	S
<i>hybrid indica</i>	Longliangyou1813	Hunan	39.2	55.4	S	70	S
<i>hybrid indica</i>	Longxiangyou7	Hunan	37.6	43.8	MS	52	S

**Appendix A (continued) Resistance reaction evaluation of 136 rice varieties in pot and field experiment**

Subpopulation	Variety	Origin	Pot experiment			Field experiment	
			Number of nematode in root	Root gall index	Resistance reaction	Root gall index	Resistance reaction
<i>hybrid indica</i>	liangyou336	Hunan	41.2	63.2	S	56	S
<i>hybrid indica</i>	Jianliangyouhuazhan	Hunan	50.6	74.2	S	72	S
<i>hybrid indica</i>	Nuoyou918	Guizhou	47.4	52.8	S	64	S
<i>hybrid indica</i>	Enuoyou91	Hubei	35.2	41.6	MS	52	S
<i>hybrid indica</i>	Fengliangyouwansan	Anhui	63.4	72.9	S	96	HS
<i>hybrid indica</i>	Fengyuanyou299	Hunan	52.8	62.5	S	92	HS
<i>hybrid indica</i>	Yueyou27	Hunan	42.5	55.1	S	84	HS
<i>hybrid indica</i>	Boyou998	Guangdong	57.8	71.6	S	92	HS
<i>hybrid indica</i>	Xiangwanxian12	Hunan	49.1	60.2	S	76	HS
<i>hybrid indica</i>	Xiangyou2	Hunan	52.4	78.2	HS	88	HS
<i>hybrid indica</i>	Hyou636	Hunan	40.3	50.9	S	76	HS
<i>hybrid indica</i>	Wuyou7	Jiangxi	57.1	87.8	HS	94	HS
<i>hybrid indica</i>	Jingliangyouhuazhan	Hunan	56.4	84.1	HS	92	HS
<i>hybrid indica</i>	Fengyuanyou2297	Hunan	55.4	74.9	S	90	HS
<i>hybrid indica</i>	Longxiangyou130	Hunan	48.5	77.1	HS	82	HS
<i>hybrid indica</i>	Rouyouhuazhan	Guangdong	43.3	64.5	S	78	HS
<i>hybrid indica</i>	Qiannuoyou11	Guizhou	46.8	71.5	S	86	HS
<i>hybrid indica</i>	Nuoliangyou561	Hubei	53.0	74.6	S	88	HS
<i>indica</i>	Nuodao-N-2	Anhui	32.5	38.8	MS	46	MS
<i>indica</i>	Ziyunuo	Jiangxi	50.2	47.8	MS	32	MS
<i>indica</i>	Haiyaxiangnuo	Hainan	32.7	47.2	MS	40	MS
<i>indica</i>	Fengnuo1246	Anhui	28.9	72.4	S	70	S
<i>indica</i>	Nuo1B	Hunan	39.7	61.1	S	70	S
<i>indica</i>	Bancangxiangnuo	Hunan	36.4	55.7	S	68	S
<i>Indica</i>	Ejingnuo6	Hubei	58.3	82.2	HS	94	HS
<i>indica</i>	Xiangwanxian13	Hunan	49.6	73.2	S	80	HS
<i>indica</i>	Nuo56S	Hubei	54.3	54.2	MS	76	HS
<i>indica</i>	Guangmingnuo1	Shanghai	35.3	60.4	S	76	HS
<i>temperate japonica</i>	Hajingdao3	Heilongjiang	54.4	86.5	HS	74	S
<i>temperate japonica</i>	Jiyuanjingdao9	Jilin	37.6	56.2	S	70	S
<i>temperate japonica</i>	Jidajingdao518	Jilin	42.9	63.3	S	66	S
<i>temperate japonica</i>	Zhongyajingdao5	Jilin	38.4	65.7	S	74	S
<i>temperate japonica</i>	Pingjing6	Jilin	41.3	62.5	S	62	S
<i>temperate japonica</i>	Songjing22	Heilongjiang	32.6	49.3	MS	72	S
<i>temperate japonica</i>	Qinglin518	Jilin	48.6	70.1	S	76	HS
<i>temperate japonica</i>	Changjing717	Jilin	53.7	80.4	HS	84	HS
<i>temperate japonica</i>	Liangjing10	Xinjiang	56.2	84.3	HS	92	HS
<i>temperate japonica</i>	Bijingyou3	Guizhou	46.4	76.4	HS	76	HS

**Appendix A (continued) Resistance reaction evaluation of 136 rice varieties in pot and field experiment**

Subpopulation	Variety	Origin	Pot experiment			Field experiment	
			Number of nematode in root	Root gall index	Resistance reaction	Root gall index	Resistance reaction
<i>tropical japonica</i>	Xuanjingnuo1	Anhui	33.8	41.6	MS	46	MS
<i>tropical japonica</i>	Yongjing18	Zhejiang	36.5	43.9	MS	48	MS
<i>tropical japonica</i>	Zhejing99	Zhejiang	34.2	31.6	MS	40	MS
<i>tropical japonica</i>	Zhengdao19	Henan	39.2	56.4	S	60	S
<i>tropical japonica</i>	Dangyujing0717	Anhui	43.2	52.5	S	60	S
<i>tropical japonica</i>	Yongjing41A	Zhejiang	44.6	61.0	S	66	S
<i>tropical japonica</i>	Guangmingjing3	Shanghai	40.1	44.2	MS	74	S
<i>tropical japonica</i>	Huxiangjing151	Shanghai	28.3	26.1	MS	56	S
<i>tropical japonica</i>	Jinnongxiangjing1267	Shanghai	36.4	50.4	S	54	S
<i>tropical japonica</i>	Jinjing667	Jiangsu	39.7	52.1	S	72	S
<i>tropical japonica</i>	Zhejing70	Zhejiang	42.8	64.3	S	64	S
<i>tropical japonica</i>	Jingnuo99-25	Jiangsu	52.1	75.2	HS	68	S
<i>tropical japonica</i>	Xiangjingnuo	Jiangsu	43.2	54.9	S	72	S
<i>tropical japonica</i>	Guangjingnuo2	Anhui	40.1	41.3	MS	58	S
<i>tropical japonica</i>	Jixiangnuo5	Henan	53.4	73.2	S	64	S
<i>tropical japonica</i>	Zhenghan9	Henan	43.7	63.6	S	86	HS
<i>tropical japonica</i>	Lianjing7	Jiangsu	54.2	70.2	S	86	HS
<i>tropical japonica</i>	Jingnuo120-5	Jiangsu	52.1	76.8	HS	86	HS
<i>tropical japonica</i>	Guangjinnuo1	Anhui	47.0	76.5	HS	76	HS
<i>tropical japonica</i>	WanjingW328	Anhui	46.6	72.3	S	78	HS
<i>tropical japonica</i>	Xuanjing2	Anhui	43.6	50.2	S	76	HS
<i>tropical japonica</i>	Yongjin80B	Zhejiang	57.1	73.4	S	80	HS
<i>tropical japonica</i>	Yongjing80A	Zhejiang	47.5	64.6	S	78	HS
<i>tropical japonica</i>	Nipponbare	Philippine	27.6	53.5	S	88	HS