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<抄 錄>

## 水稻 主要 害虫에 對한 品種抵抗性 研究

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1969년부터 1974년까지 耐虫性 品種 育成을 위한 抵抗性 母本을 選拔하고자 作物試驗場, 嶺南作物試驗場, 湖南作物試驗場에서 接受供試한 有望品種 및 系統들과 비올빈 IRRI에서 採수한 저항성 品種들을 二化螟虫 (*Chilo suppressalis*), 애멸구(*Laodelphax striatellus*), 끝동매미충(*Nephotettix cincticeps*), 벼멸구(*Nilaparvata lugens*), 흰등멸구(*Sogatella furcifera*) 등에 對한 抵抗性 程度를 調査한 結果 Table 1과 같았다,

二化螟虫에 抵抗性인 品種은 없었고 中間抵抗性인 品種은 Kusabue 등 31個 品種이었고 애멸구에 抵抗性 品種으로는 Iri 316 등 74個 品種이었다 (Table 2).

끝동매미충에 대하여 저항성 품종은 ASD-7 등 9品種이었고 (Table 3), 벼멸구에는 Balamawee 등 26品種이 抵抗性이었으며 흰등멸구에는 Colombo 등 16品種이 抵抗性 品種이었다 (Table 4, 5).

Table 1. Plant reaction of rice varieties to insect pests (IAS 1969-1974)

Insect	Item	Number of varieties or lines tested					Total
		Resistant	Moderately resistant	Moderate	Moderately susceptible	Susceptible	
<i>Chilo suppressalis</i>		0	31	92	115	125	363
<i>Laodelphax striatellus</i>		74	67	67	60	162	430
<i>Nephotettix cincticeps</i>		9	36	54	43	93	235
<i>Nilaparvata lugens</i>		26	11	26	98	507	668
<i>Sogatella furcifera</i>		16	21	39	33	199	308

Table 2. Rice varieties or lines resistant to small brown planthopper (*Laodelphax striatellus*)

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|-------------------|-------------------------|----------------------|--------------------------|
| 1. Andaragahawewa | 4. Dikwee               | 7. IR781-13-1-2-3    | 10. IR1311-131-1-1-1-2   |
| 2. ARC 6650       | 5. Iri 316              | 8. IR944-102-3-3-2   | 11. IR1317-313-1-1-2-3-1 |
| 3. C 20           | 6. IR667-98-1-2-2-1-1-2 | 9. IR1311B7-30-1-1-B | 12. IR1317-392-1-2-3-3   |

13. IR1530-61-3	30. IR1589-1-11-3	46. KR51-87-1	61. SR64-1-4-7-1
14. IR1586-1-3-3-2	31. IR1589-1-41-2-2	47. KR51-87-2	62. SR641-4-13-1
16. IR1586-1-3-3-3-2	32. IR1589-48-1	48. KR51-90-1	63. Suweon#213
17. IR1586-1-27-2-1	33. IR1592-2-6-1-4	49. KR51-90-2	64. Suweon213-1-9-26
18. IR1586-1-52-3-2	34. IR1594-3-133-1	50. KR51-90-3	65. Suweon213-9-1282
19. IR1586-2-75-3-1	35. IR1606-1-8-3-2	51. Kurohondarawala	66. Suweon 215
20. IR1586-3-8-3-1	36. IR1606-1-14-1-3	52. Milyang#17	67. Suweon 218
21. IR1586-3-13-1	37. IR1606-1-22-2-2	53. Mudgo	68. Suweon 227
22. IR1586-8-3	38. IR1702-87-2	54. Murungakayan	69. Suweon 229
23. IR1586-13-2-1	39. KR51-56-2	55. Murungkayan 303	70. Suweon 230
24. IR1587-2-65-1-1	40. KR51-64-1	56. PF2-24	71. Suweon 232
25. IR1587-26-3	41. KR51-64-3	57. PTB-18	72. Suweon 239
26. IR1587-107-2	42. KR51-64-4	58. PTB-19	73. Suweon 242
27. IR1587-150-2-3	43. KR51-66-4	59. PTB-21	74. Tongil
28. IR1588-1-27-3	44. KR51-68-2	60. Rathu Heenati	
29. IR1589-1-7-2-1	45. KR51-74-4		

**Table 3.** Rice varieties or lines resistant to green rice leafhopper (*Nephotettix cincticeps*)

1. ASD-7	4. Kanto #79	7. PTB 18	9. Vunam
2. Balamawee	5. Murunga 137	8. Suweon #227	
3. IR1317-147-3-2	6. Murungakayan		

**Table 4.** Rice varieties or lines resistant to brown planthopper (*Nilaparvata lugens*)

1. Andaragahawewa	8. C62-1-373	15. Murunga 137	21. PTB 18
2. ASD-7	9. Dikwee	16. Murungakayan	22. PTB 19
3. Balamawee	10. Hathiel	17. Murungakayan 3	23. PTB 21
4. Chianung-shen-yu 10	11. H 5	18. Murungakayan 101	24. Rathu Heenati
5. Chianung-shen-yu 11	12. Kurohondarawala	19. Murungakayan 303	25. RP9-6 (IR8×W1251)
6. CO 9	13. MTU 15	20. Muthumanikam	26. Sudurvi 305
7. C62-1-230	14. Mudgo		

**Table 5.** Rice varieties or lines resistant to white-backed planthopper (*Sogatella furcifera*)

1. ARC 5752	5. Dikwee	9. IR1317-70-1	13. Pankari 203
2. Balamawee	6. Gangala	10. Murungakayan	14. PTB 21
3. C5-17	7. Hashikalmi	11. Murungakayan 101	15. Suweon213-9-1403-1
4. Colombo	8. H 5	12. Murungakayan 303	16. YR319-GYB3-319-1