

Table 1. Fungicides tested for the control of soybean rust, country tested, and literature cited.

Fungicide ^a	Country tested and literature cited
Bavistin-combi	Taiwan (9)
Bayleton 25WP	Taiwan (3,9), Thailand (6,26,27)
Benlate (benomyl)	Brazil (15), Taiwan (14), India (30)
Brestanol (triphenol tin hydroxide)	India (30)
Bordeaux mixture or copper	Japan (17,18), Taiwan (13,14,33)
Delan	India (22)
Difolatan (captafol)	India (30)
Dithane M-22 (maneb)	Brazil (15), Taiwan (4,12)
Dithane M-22 (maneb) + wettable sulphur	Taiwan (13)
Dithane M-22 + triadimefon	Thailand (25)
Dithane M-45 (mancozeb)	India (20,22,30), Philippines (29,31), Taiwan (2,8,9,10,11,14,32,33)
Dithane Z-78 (zineb)	India (30), Taiwan (5,33)
Karathane WD (dinocap)	Taiwan (33)
Kilex	India (20)
Lime-sulphur	Japan (1,17-19)
o-methylbenzoic acid acetate	Taiwan (14)
Phygon XL (dichlone)	Taiwan (33)
Plantvax	Thailand (6,24,28)
Plantvax + Benlate	Thailand (28)
Sankyo	Taiwan (14)
Seprol	India (20,21), Thailand (24)
Triadimefon 25 WP	Brazil (16), Thailand (28, Appendix II-C)
Triforine	Brazil (16)
Zineb	Taiwan (23)
Six fungicides and five combinations (not specified)	Taiwan (7)

^a Mention of these compounds here or in the text does not constitute an endorsement or recommendation by the editors.

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3. Spacing: Little is known about the effect of spacing on the epidemiology of soybean rust. However, observations suggest that this should be further studied as a potential means of reducing losses due to this pathogen.
 4. Control of weed hosts: The host range of the rust fungi includes a number of wild legume species. Control of alternative hosts with herbicides or other means in the vicinity of soybean production areas should be practiced. Until more is known about the aerial transport of the spores of this fungus, the extent of the area in which weed hosts must be controlled will be based on observations and good judgement.
 5. Control of cultivated hosts: The soybean rust fungi have hosts which include a number of cultivated legume species, such as common bean and lima bean. These crops should be avoided near soybean production areas in regions where the pathogen is endemic.
 6. Crop rotation: This practice has been effective for the control of other plant diseases and, because of the short-lived nature of the urediniospores, it is presumed that crop rotation may be an effective means for control of this disease. However, field studies should be done to determine the feasibility of this practice.
 7. Intercropping: There is no evidence that intercropping will provide disease control but studies need to be made to test this possibility.
 8. Transport of host material: The long-range transport of host plant material other than seeds, whether alternative species or alternative hosts, should be forbidden until proof is accumulated that the fungus is not carried in these tissues. The long-range transport of seeds of the various hosts should be regulated, except in the case of soybeans for which there is evidence that the fungus is not seedborne.

D. Control with methods other than chemicals or disease resistance

A number of other methods are available for control of soybean rust and need further study. Any one or a combination of these methods should be used in the development of a complete system for the management of the disease.

1. Date of planting: Soybean rust occurs at certain times of the year in different regions. This needs to be understood precisely and the information used to determine planting dates to avoid severe losses.
2. Early- and late-maturing cultivars: If the disease appears late in the growing season, soybeans may escape severe losses if they mature before the fungus can become fully established.

9. Sanitation measures: All plant debris of hosts of this fungus should be destroyed after harvest either by burning, plowing under, chemical treatment or other such means, until the extent to which this fungus can overseason in the tissues of its various hosts is known.
10. Surveillance and inspection: Constant surveillance of epidemic areas and inspection of exported and imported host materials, including seeds, is necessary for local, regional and international control of this pathogen.
11. Biological control: There is little known about the potential use of biological methods for control of soybean rust. If and when this practice becomes available, it should be used in an overall control program.

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