Fungicide treatment at different phenology-based program against soybean asiatic rust (Phakopsora pachyrhizi)
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INTRODUCTION
- One of the better methods of soybean rust control is the use of fungicides applied on an adequate period, mainly before of the occurrence of symptoms, or immediately after the symptoms appear.
- The management of fungicides is very important to result on safety control of the disease and to ensure good yield.

OBJECTIVE
- The trial was carried out in Paulínia, SP, Brazil, to assess different fungicides spray programs and application timings to control Phakopsora pachyrhizi.

MATERIAL AND METHODS
The treatments were: tebuconazole (Folicur); trifloxystrobin & tebuconazole (Nativo) followed by Folicur; prothioconazole (Proline); pyraclostrobin & epoxiconazole (Opera) all of them with two or three applications except the untreated. First application was done at pre-flowering (R1) with 0.01% of disease severity, second application at full fruiting (R4) and the last one when 75% of pods reached the final size (R5.4) or 100% of the final size (R6).

RESULTS
The best treatments to disease control were: First application with Nativo (R1) followed by Folicur 2° appl. (R4) and 3° appl. with Folicur at R5.4; Folicur, 3 applications and the treatment Nativo at 1° appl. (R1) followed by Folicur 2° appl. (R4), these treatments showed severity between 14.0 and 17.2%, followed by Folicur when applied at R1 and R4, treatment with Proline applied at R1, R4 and R5.4 and treatment with Opera applied at R1, R4 and R5.4 (severity between 20.7 and 22.7%). All treatments showed yield from 30.4% up to 41.1% higher than the untreated. It was possible to see that independently of the number of applications is better to start during the pre-flowering due the low disease severity at this crop stage, a second application at full fruiting and a third application, if necessary, when 75% of pods reach the final size.

CONCLUSION
- Probably after the end phase of pod filling (R6), there is no response of the spray of fungicides for aiming the control of the asiatic rust because it was not observed good results for delayed applications at crop stage of 100% pods with the final size.