



# TEST REPORT

of the  
**Julius Kühn-Institut**  
Federal Research Institute  
for Cultivated Plants, Braunschweig



**Double - Flatfan nozzle TeeJet TTI60-110 03 VP-C  
(Plastic, blue)**

**Approved for spraying field crops**

**Applicant**

TeeJet Technologies GmbH  
Eglosheimer Str. 41  
71636 Ludwigsburg

**Manufacturer**

Spraying Systems Co.  
North Ave at Schmale Rd.  
Wheaton, IL (USA)

**Approved on**

**5 January 2017**

## Assessment

The double-flatfan nozzle TeeJet TTI60-110 03 VP-C (Plastic, blue) was tested without accessory. The nozzle is suitable for spraying field crops, provided that the following technical requirements are fulfilled:

1. Installation in a spray boom with a sufficient and a steady amount of liquid flow,
2. 500 mm nozzle spacing,
3. 50 cm between nozzles and spray target (consistency of evenness of cross distribution proved satisfactory at a distance range from 40 cm to 60 cm),
4. Spray pressure – measured in front of the nozzle – between 1.5 and 7.0 bar; liquid volume flow per nozzle as stated in table below.

Suitable precautions should be taken to assure that the nozzles do not get blocked up or drip when in use. The colour coding of the nozzle tip comply with standard ISO 10625. For the application of field edges TeeJet recommends the use of the nozzle AIUB 85 025 VS as last nozzle in the spray boom.

Pressure (bar)	Liquid flow volume without accessories (l/min)	Max. deviation of single nozzle flow from the dosage tables	Evenness of cross distribution at (cm) 40 / 50 / 60 (Vk %)	Droplet spectrum (BCPC-Standard)
1.5	0.74	- 3.60 %	8.7 / 4.2 / 5.7	very coarse
2.0	0.86	-	- / 7.9 / -	very coarse
3.0	1.05	4.68 %	- / 3.2 / -	very coarse
4.0	1.21	4.50 %	4.9 / 1.9 / 2.0	very coarse
5.0	1.36	-	- / 2.2 / -	very coarse
6.0	1.49	-	- / - / -	very coarse
7.0	1.61	5.00 %	- / 1.8 / -	very coarse

## Loss reducing properties

Included in the list „Loss reducing equipment“ (12 March 2018)

Drift reducing classification	Type of equipment and drift reducing parts	Regulations for use
50 %	Fieldsprayer with nozzle TeeJet TTI60-110 03 VP-C	First 20 m from the field edge spraying with max. 6 bar, nozzle height above target 50 cm.
75 %	Fieldsprayer with nozzle TeeJet TTI60-110 03 VP-C	First 20 m from the field edge spraying with max. 4 bar, nozzle height above target 50 cm.
90 %	Fieldsprayer with nozzle TeeJet TTI60-110 03 VP-C	First 20 m from the field edge spraying with max. 3 bar, nozzle height above target 50 cm.

## Field test

The nozzles were used in the year 2016 on a total of 1271 hectares, a sufficient effect of the plant protective measures was confirmed.

## Basics for testing

The tests were carried out on basis of the Regulations for Testing Plant Protection Equipment (Guideline 2-1.1:2013) and of ISO 5682-1:1999. The requirements of ISO 16119-2:2013 and of JKI-Guideline 1-2.1:2013 were fulfilled.

### Field testing:

Landwirtschaftskammer  
Nordrhein-Westfalen  
Pflanzenschutzdienst, Ref. 62  
Nevinghoff 40  
48147 Münster

### Technical testing:

Institut für Anwendungstechnik im  
Pflanzenschutz des  
Julius Kühn-Instituts,  
Messeweg 11-12,  
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