

INTRODUCTION

Oil-sensitive paper is a rigid paper with specially coated surface which is stained black by oil droplets. The paper has been developed for the rapid evaluation of spray in the field. It is recommended for the determination of swath widths, spray distribution, droplet densities and spray penetration into plant foliage.

DESCRIPTION OF OIL-SENSITIVE PAPER

The black surface of the collectors is coated with a white-colored, oil-soluble wax layer. The sensitive side is glossy. The impinging oil droplets dissolve the thin, white, wax layer and leave a permanent black spot on a white background. The oil-sensitive papers are packed in sealed plastic bags.

SUITABILITY OF OIL-SENSITIVE PAPER

The oil-sensitive paper is an excellent collector for many oil formulations, solvents and other carriers. The collectors can be placed in the field the evening prior to an early morning application and will not be harmed by the morning dew. Oil-sensitive paper should be used only for qualitative assessment of spray distribution and penetration.

WHERE TO USE OIL-SENSITIVE PAPER

A. AERIAL APPLICATION – for detection of swath width and to evaluate the effects of propwash, wing tips vortices and nozzle placement on distribution. Attach the cards onto a horizontal support slightly above the ground or plant canopy.

B. ORCHARD SPRAYERS – for evaluation of spray distribution and penetration throughout the tree. Staple the cards to leaves in upper, center and lower parts of the tree.

C. FIELD SPRAYERS – for evaluation of spray distribution and droplet density along the boom. Staple a series of cards to a board and place it across a section of the boom swath.

D. BACKPACK/HAND-HELD SPRAYERS – for evaluation of spray distribution and droplet density. Place collectors across a single run width.

NOTE: Numbering collectors before placing them on the supports will help in evaluating the exposed cards for irregularities in the spray.

EVALUATION OF OIL-SENSITIVE PAPER

Spray collectors can be rapidly evaluated by visual estimate. A quick glance can reveal areas of over- and under-application, clogged or defective nozzles and nozzle dripping. Evaluation should take place immediately after spraying. Delay in assessing the collectors will allow the oil droplets to spread and possibly conceal differences in coverage.

STORAGE AND HANDLING

The surface of the collector must not be scratched before use. Handle sprayed collectors with care to avoid smearing oil.

LIMITATION OF OIL-SENSITIVE PAPER

Droplets below 30 microns are not large enough to dissolve the waxy layer and leave a stain. This limitation can be overcome by adding a small amount of ultraviolet (UV) tracer to the formulation. The exposed collectors are then examined under a mixed ultraviolet/white light. The large stains will be visible in white light while all stains, in particular the small ones, are visible in fluorescence under UV light.

Delay in assessing spray coverage may allow substantial droplet spread with certain oil-based carriers. Droplet spread may conceal differences in coverage.

Water and oil sensitive paper sold by Spraying Systems Co. is manufactured by Syngenta Crop Protection AG.

SSCO PART NO.	DESCRIPTION	PAPER SIZE	QTY. PER PACK
20302-1	OIL SENSITIVE PAPER	3" X 2" (76mm X 52mm)	50 CARDS
20302-4	OIL SENSITIVE PAPER	3" X 1" (76mm X 26mm)	50 CARDS

DESCRIPTION:

**OIL SENSITIVE
SPRAY CHECK PAPER**



Spraying Systems Co.®

**Spray Nozzles and Accessories
P.O. Box 7900 - Wheaton, IL 60189-7900**

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