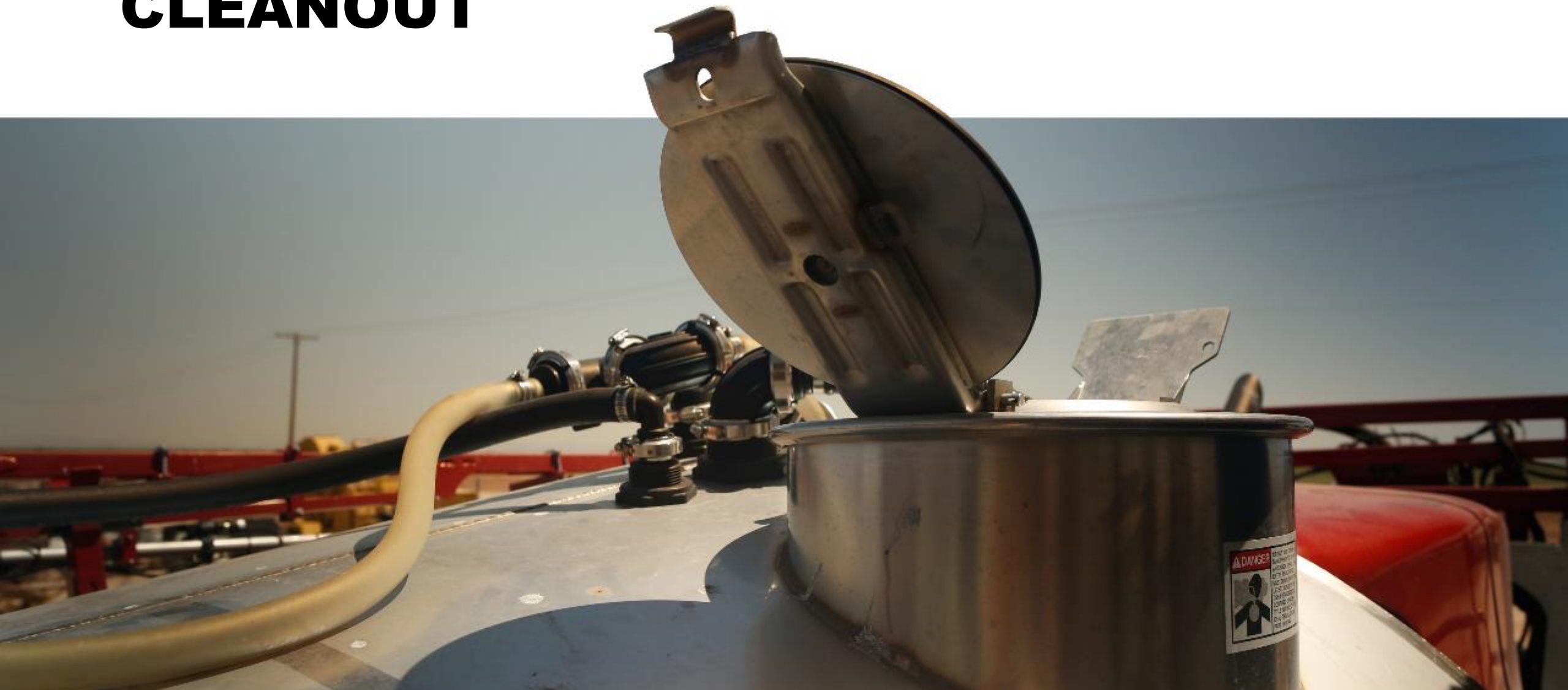


# SPRAY SYSTEM CLEANOUT





# KEEP IT CLEAN

## SPRAYER HYGIENE - WHY THE ISSUE?

Low rates for activity and crop sensitivity

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Higher use of POST (over the top applications)

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Dry formulations and suspensions are prone to accumulate

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Increasing trends of tank mixing products and adjuvants

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Complex plumbing in sprayers and handling systems

Reference: Removing herbicide residues from agricultural equipment. Purdue University Extension. PPP

# KEEP IT CLEAN

THE POWER OF THREE

**SINGLE RINSE**



**DOUBLE RINSE**



**TRIPLE RINSE**

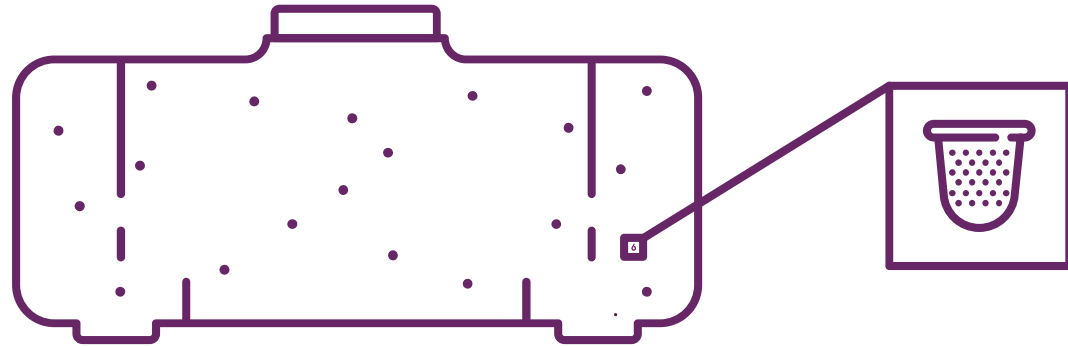


Refer to specific product label for complete cleanout instructions.

# SMALL AMOUNTS OF PESTICIDE RESIDUE MAY CAUSE CROP RESPONSE

**HOW MUCH  
DICAMBA CAN  
CAUSE  
SYMPTOMOLOGY?**

**THE EQUIVALENT OF A THIMBLE FULL  
OF FORMULATED DICAMBA PRODUCT  
IN A 1,000 GALLON SPRAY TANK**



# KEEP IT CLEAN

## SPRAYER HYGIENE – PLACES PESTICIDES CAN HIDE



### TANK

Weld seams (steel tanks)

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Material adsorption  
(poly tanks)

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Baffles

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Agitation paddles and jets,  
sparger tubes

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Corners (flat bottom tanks)

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Sump

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Lid and tank rim



### VALVES

All valves should be cycled  
during flushing and cleaning

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Front and side loading ports

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Flowmeters & associated  
lines/hoses



### LINES/HOSES

“U” bends can serve as  
traps that hold spray  
solution and allow  
pesticides to separate

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Cracks and rough edges  
can trap residues

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Imperfections on interior  
surfaces inherent to  
material type

# KEEP IT CLEAN

SPRAYER HYGIENE – PLACES PESTICIDES CAN HIDE



## SCREENS

Inline strainers before  
and after pump

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Suction filters at front-  
and side-fill ports

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Nozzle screens



## BOOM

Dead ends and end caps

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Large booms can hold as  
much as 35 gal. of solution



## NOZZLE TIPS

Unused nozzle bodies  
and pressure check valves

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Nozzle turrets



# KEEP IT CLEAN

## CLEANING TRANSPORT SYSTEMS

Tender trucks/tanks have fewer components but can be more difficult to remove all material

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Dedicate transports when risk of crop response is high

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When delivering “hot loads”, make last run with clean water and mix in the sprayer

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When cleaning transports, add tank cleaner to the transport and mobilize with stop and go to ensure thorough rinsing

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Triple-rinse and drain sump



# KEEP IT CLEAN

DON'T FORGET MIXING/LOADING/  
HANDLING EQUIPMENT

Start with clean water source

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Shutoffs preferred over backflow valves

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Separate lines for products with high risk  
for sensitive crops

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Use dedicated fill lines/hoses for use with  
different herbicide products of similar risk