

Side Dress Liquid Manure

SIDE DRESSING LIQUID MANURES WHEN CROPS ARE GROWING WOULD EXTEND THE APPLICATION TIME UP TO MID JUNE ON CORN AND MID JULY ON SOYBEANS.

THE NUTRIENTS WOULD BE APPLIED WHEN THE CROPS DEMANDS ARE THE GREATEST. THIS TECHNIQUE WOULD LESSEN THE NEED FOR SUCH LARGE HOLDING FACILITIES. THE QUESTION IS HOW WILL THE CROPS RESPOND TO THIS TECHNIQUE? THREE CO-OPERATORS SIDE DRESSED CORN IN 1988, AND ON AN AVERAGE THEIR MANURE REPLACED 60 UNITS OF NITROGEN AND PRODUCED THE SAME YIELDS.

HOWEVER FRANTZEN INCREASED THE YIELD WITH LIQUID HOG MANURE WHILE SVOBODA CORN YIELD WAS DECREASED, CHART 16. THIS EXPERIMENT NEEDS TO BE CONTINUED NEXT YEAR WITH, HOPEFULLY, MORE RAINFALL. SIDE DRESSING SOYBEANS WITH LIQUID HOG MANURE DID NOT INCREASE OR DECREASE YIELD IN WHAT WAS A VERY, VERY, DRY SPOT OF IOWA, CHART 17.

CHART -16-

1988: MANURE VS. FERTILIZER NITROGEN (SIDE DRESS) CORN YIELDS BU./A.						
	MANURE	FERT. NIT.60*	DIFF. FROM NIT	LSD (05)	NIT. COST \$	C.V. %
FRANTZEN	(a) 78.14 2000 G. 68+44+38	(b) 73.85	+4.29*	4.08	10.20	3.61
REICHERTS	(a) 88.57 1500 G 65+38+32 3.32%	(a) 89.28	-0.71	3.79	10.20	2.87
SVOBODA	(b) 110.53 2640 G. 79+26+40 2.34%	(a) 115.58	-5.05*	4.46	10.20	2.66
AVG.	92.41	92.90	-0.49	4.31	10.20	3.05

P.F.I.

CHART -17-

1988: SIDE DRESS LIQUID HOG ON SOYBEANS SOYBEAN YIELDS BU./A						
	MANURE	NONE	DIFF. FROM NONE	LSD (05)		C.V.%
FRANTZEN	(a) 13.23 2000G 68+44+38	(a) 14.54	-1.31	2.55		27.68
REICHERTS	(a) 22.39 3000 G. 130+56+64	(a) 22.53	-0.14	1.83		5.44

P.F.I.