

NOZZLE SELECTION FOR COMPLETE UNDER-CANOPY COVERAGE



360 UNDERCOVER™ helps you protect crops from late-season disease and insect infestations with under canopy fungicide and insecticide application and is an effective way to deliver micronutrients or plant health products where and when you want to apply. Its unique design allows the unit to slide easily in the plant canopy for complete coverage and better plant health.

Each 360 UNDERCOVER unit has four multidirectional spray nozzles that offer 150-degree horizontal spray application side by side. Interchange and select nozzles to develop a customized spray pattern and droplet size based on your needs.

NOZZLE OPTIONS WE'RE TESTING

There are a lot of nozzle options and brands available on the market. We have tested TeeJet® Technologies nozzles to-date, but it is up to you what nozzle and brand you use. Based on the knowledge and experience we have gained from our testing, we worked with TeeJet to develop the following charts with nozzles we think will have a good fit with 360 UNDERCOVER.

Additionally, we recommend you run mesh screen at the beginning of each 360 UNDERCOVER supply hose (at the wet boom connection) with the suggested size that is listed in the forthcoming charts. Typically, it will be a 100 or 50 mesh screen.

Nozzle Availability

Some of the small nozzles aren't always stocked by local suppliers. We encourage you to plan ahead. Call and order in advance of needing nozzles so you have them when you want to get in the field. The following charts can help you determine the exact size you need based on the criteria below for your specific operation.

To pick which nozzle is best for you:

- + Take into account your specific variables, such as GPA, speed, pressure, etc.
- + Calculate how many nozzles you will use with 360 UNDERCOVER
- + Select a nozzle that:
 - Delivers a medium sized droplet based on the TeeJet nozzle selection charts (assuming your product of choice works effectively with that size droplet).
 - Operates in the pressure range you plan to use.

NOZZLE CHARTS

Pay attention to the two nozzle or three nozzle configurations as you use the charts. 360 UNDERCOVER can hold up to four nozzles, but we recommend using the two side nozzles and, if needed, one nozzle of the back-facing orifices. The tip size you need will vary based on if you are using two or three nozzles.

An example of how to use these charts: If you are using three Turbo TeeJet nozzles and you plan to run 8 mph and apply 11 GPA, you would choose the TT110015 nozzle. At that speed and GPA, it puts you at 40 PSI, which is in the range for that tip to give you a medium droplet size.

HOW TO SELECT NOZZLES

When selecting nozzles, take into account your specific variables:

- Product
- Crop
- Canopy density
- Desired droplet size
- Speed of application equipment
- Desired pressure
- Gallons per acre (GPA)

Choose a nozzle that delivers a medium-sized droplet, depending on the variables you have. Before you make a nozzle selection, consult the product label or company representative.



TURBO TEEJET® WIDE ANGLE SPRAY TIPS

The Turbo TeeJet spray tip is ideal for use with the 360 UNDERCOVER™ application system. Excellent spray distribution quality and droplet size provides optimal coverage and efficacy.

Features Include:

- Tapered edge wide angle flat spray pattern for uniform coverage in broadcast spraying.
- Excellent resistance to corrosive solutions.
- Superior wear characteristics.
- Larger droplets for less drift- 15-90 PSI (1-6 bar).
- Automatic spray alignment with 25612-* -NYR or 114441-* -CELR Quick TeeJet® cap and gasket.



SPRAY TIP (MESH SIZE)	LIQUID PRESSURE IN PSI	DROPLET SIZE	2 SPRAY TIPS								3 SPRAY TIPS							
			GPM	OZ/MIN	GPA 30"						GPM	OZ/MIN	GPA 30"					
					7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH			7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH
TT11001 (100)	15	C	0.12	15	3.4	3.0	2.6	2.4	2.2	2.0	0.18	23	5.1	4.5	4.0	3.6	3.2	3.0
	20	C	0.14	18	4.0	3.5	3.1	2.8	2.5	2.3	0.21	27	5.9	5.2	4.6	4.2	3.8	3.5
	30	M	0.17	22	4.8	4.2	3.7	3.4	3.1	2.8	0.26	33	7.4	6.4	5.7	5.1	4.7	4.3
	40	M	0.20	26	5.7	5.0	4.4	4.0	3.6	3.3	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0
	50	M	0.22	28	6.2	5.4	4.8	4.4	4.0	3.6	0.33	42	9.3	8.2	7.3	6.5	5.9	5.4
	60	F	0.24	31	6.8	5.9	5.3	4.8	4.3	4.0	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9
	70	F	0.26	33	7.4	6.4	5.7	5.1	4.7	4.3	0.39	50	11.0	9.7	8.6	7.7	7.0	6.4
	80	F	0.28	36	7.9	6.9	6.2	5.5	5.0	4.6	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9
	90	F	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0	0.45	58	12.7	11.1	9.9	8.9	8.1	7.4
TT110015 (100)	15	VC	0.18	23	5.1	4.5	4.0	3.6	3.2	3.0	0.28	36	7.9	6.9	6.2	5.5	5.0	4.6
	20	C	0.22	28	6.2	5.4	4.8	4.4	4.0	3.6	0.33	42	9.3	8.2	7.3	6.5	5.9	5.4
	30	M	0.26	33	7.4	6.4	5.7	5.1	4.7	4.3	0.39	50	11.0	9.7	8.6	7.7	7.0	6.4
	40	M	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0	0.45	58	12.7	11.1	9.9	8.9	8.1	7.4
	50	M	0.34	44	9.6	8.4	7.5	6.7	6.1	5.6	0.51	65	14.4	12.6	11.2	10.1	9.2	8.4
	60	F	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9
	70	F	0.40	51	11.3	9.9	8.8	7.9	7.2	6.6	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9
	80	F	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9	0.63	81	17.8	15.6	13.9	12.5	11.3	10.4
	90	F	0.46	59	13.0	11.4	10.1	9.1	8.3	7.6	0.69	88	19.5	17.1	15.2	13.7	12.4	11.4
TT11002 (50)	15	VC	0.24	31	6.8	5.9	5.3	4.8	4.3	4.0	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9
	20	VC	0.28	36	7.9	6.9	6.2	5.5	5.0	4.6	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9
	30	C	0.34	44	9.6	8.4	7.5	6.7	6.1	5.6	0.51	65	14.4	12.6	11.2	10.1	9.2	8.4
	40	M	0.40	51	11.3	9.9	8.8	7.9	7.2	6.6	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9
	50	M	0.44	56	12.4	10.9	9.7	8.7	7.9	7.3	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9
	60	M	0.48	61	13.6	11.9	10.6	9.5	8.6	7.9	0.72	92	20	17.8	15.8	14.3	13.0	11.9
	70	F	0.52	67	14.7	12.9	11.4	10.3	9.4	8.6	0.78	100	22	19.3	17.2	15.4	14.0	12.9
	80	F	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9
	90	F	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9	0.90	115	25	22	19.8	17.8	16.2	14.9
TT110025 (50)	15	VC	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0	0.45	58	12.7	11.1	9.9	8.9	8.1	7.4
	20	VC	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9
	30	C	0.44	56	12.4	10.9	9.7	8.7	7.9	7.3	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9
	40	M	0.50	64	14.1	12.4	11.0	9.9	9.0	8.3	0.75	96	21	18.6	16.5	14.9	13.5	12.4
	50	M	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9
	60	M	0.62	79	17.5	15.3	13.6	12.3	11.2	10.2	0.93	119	26	23	20	18.4	16.7	15.3
	70	F	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9	0.99	127	28	25	22	19.6	17.8	16.3
	80	F	0.70	90	19.8	17.3	15.4	13.9	12.6	11.6	1.05	134	30	26	23	21	18.9	17.3
	90	F	0.76	97	21	18.8	16.7	15.0	13.7	12.5	1.14	146	32	28	25	23	21	18.8
TT11003 (50)	15	VC	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9
	20	VC	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9	0.63	81	17.8	15.6	13.9	12.5	11.3	10.4
	30	C	0.52	67	14.7	12.9	11.4	10.3	9.4	8.6	0.78	100	22	19.3	17.2	15.4	14.0	12.9
	40	C	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9	0.90	115	25	22	19.8	17.8	16.2	14.9
	50	M	0.68	87	19.2	16.8	15.0	13.5	12.2	11.2	1.02	131	29	25	22	20	18.4	16.8
	60	M	0.74	95	21	18.3	16.3	14.7	13.3	12.2	1.11	142	31	27	24	22	20	18.3
	70	M	0.80	102	23	19.8	17.6	15.8	14.4	13.2	1.20	154	34	30	26	24	22	19.8
	80	M	0.84	108	24	21	18.5	16.6	15.1	13.9	1.26	161	36	31	28	25	23	21
	90	F	0.90	115	25	22	19.8	17.8	16.2	14.9	1.35	173	38	33	30	27	24	22
TT11004 (50)	15	XC	0.48	61	13.6	11.9	10.6	9.5	8.6	7.9	0.72	92	20	17.8	15.8	14.3	13.0	11.9
	20	VC	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9
	30	C	0.70	90	19.8	17.3	15.4	13.9	12.6	11.6	1.05	134	30	26	23	21	18.9	17.3
	40	C	0.80	102	23	19.8	17.6	15.8	14.4	13.2	1.20	154	34	30	26	24	22	19.8
	50	M	0.90	115	25	22	19.8	17.8	16.2	14.9	1.35	173	38	33	30	27	24	22
	60	M	0.98	125	28	24	22	19.4	17.6	16.2	1.47	188	42	36	32	29	26	24
	70	M	1.06	136	30	26	23	21	19.1	17.5	1.59	204	45	39	35	31	29	26
	80	M	1.14	146	32	28	25	23	21	18.8	1.71	219	48	42	38	34	31	28
	90	M	1.20	154	34	30	26	24	22	19.8	1.80	230	51	45	40	36	32	30

TURBO TWINJET® WIDE ANGLE SPRAY TIPS

The Turbo TwinJet spray tip is ideal for use with the 360 UNDERCOVER™ application system. Excellent spray distribution quality and droplet size provides optimal coverage and efficacy.

Features Include:

- Twin, tapered edge flat spray patterns for very thorough coverage in broadcast spraying.
- Excellent resistance to agrochemicals.
- Superior wear characteristics.
- Medium to Very Coarse droplets for less drift- 20-90 PSI (1.5-6 bar).
- Automatic spray alignment with 25612-*-NYR or 114441-*-CELR Quick TeeJet® cap and gasket.



SPRAY TIP (MESH SIZE)	LIQUID PRESSURE IN PSI	DROPLET SIZE	2 SPRAY TIPS								3 SPRAY TIPS							
			GPM	OZ/MIN	GPA 30°						GPM	OZ/MIN	GPA 30°					
					7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH			7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH
TTJ60-11002 (100)	20	C	0.28	36	7.9	6.9	6.2	5.5	5.0	4.6	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9
	30	C	0.34	44	9.6	8.4	7.5	6.7	6.1	5.6	0.51	65	14.4	12.6	11.2	10.1	9.2	8.4
	40	C	0.40	51	11.3	9.9	8.8	7.9	7.2	6.6	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9
	50	M	0.44	56	12.4	10.9	9.7	8.7	7.9	7.3	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9
	60	M	0.48	61	13.6	11.9	10.6	9.5	8.6	7.9	0.72	92	20	17.8	15.8	14.3	13.0	11.9
	70	M	0.52	67	14.7	12.9	11.4	10.3	9.4	8.6	0.78	100	22	19.3	17.2	15.4	14.0	12.9
	80	M	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9
90	M	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9	0.90	115	25	22	19.8	17.8	16.2	14.9	
TTJ60-110025 (100)	20	VC	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9
	30	C	0.44	56	12.4	10.9	9.7	8.7	7.9	7.3	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9
	40	C	0.50	64	14.1	12.4	11.0	9.9	9.0	8.3	0.75	96	21	18.6	16.5	14.9	13.5	12.4
	50	C	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9
	60	C	0.62	79	17.5	15.3	13.6	12.3	11.2	10.2	0.93	119	26	23	20	18.4	16.7	15.3
	70	M	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9	0.99	127	28	25	22	19.6	17.8	16.3
	80	M	0.70	90	19.8	17.3	15.4	13.9	12.6	11.6	1.05	134	30	26	23	21	18.9	17.3
90	M	0.76	97	21	18.8	16.7	15.0	13.7	12.5	1.14	146	32	28	25	23	21	18.8	
TTJ60-11003 (100)	20	VC	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9	0.63	81	17.8	15.6	13.9	12.5	11.3	10.4
	30	C	0.52	67	14.7	12.9	11.4	10.3	9.4	8.6	0.78	100	22	19.3	17.2	15.4	14.0	12.9
	40	C	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9	0.90	115	25	22	19.8	17.8	16.2	14.9
	50	C	0.68	87	19.2	16.8	15.0	13.5	12.2	11.2	1.02	131	29	25	22	20	18.4	16.8
	60	C	0.74	95	21	18.3	16.3	14.7	13.3	12.2	1.11	142	31	27	24	22	20	18.3
	70	C	0.80	102	23	19.8	17.6	15.8	14.4	13.2	1.20	154	34	30	26	24	22	19.8
	80	M	0.84	108	24	21	18.5	16.6	15.1	13.9	1.26	161	36	31	28	25	23	21
90	M	0.90	115	25	22	19.8	17.8	16.2	14.9	1.35	173	38	33	30	27	24	22	
TTJ60-11004 (50)	20	VC	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9
	30	C	0.70	90	19.8	17.3	15.4	13.9	12.6	11.6	1.05	134	30	26	23	21	18.9	17.3
	40	C	0.80	102	23	19.8	17.6	15.8	14.4	13.2	1.20	154	34	30	26	24	22	19.8
	50	C	0.90	115	25	22	19.8	17.8	16.2	14.9	1.35	173	38	33	30	27	24	22
	60	C	0.98	125	28	24	22	19.4	17.6	16.2	1.47	188	42	36	32	29	26	24
	70	C	1.06	136	30	26	23	21	19.1	17.5	1.59	204	45	39	35	31	29	26
	80	C	1.14	146	32	28	25	23	21	18.8	1.71	219	48	42	38	34	31	28
90	M	1.20	154	34	30	26	24	22	19.8	1.80	230	51	45	40	36	32	30	

XR TEEJET® FLAT SPRAY TIPS

The XR TeeJet spray tip is ideal for use with the 360 UNDERCOVER™ application system. Excellent spray distribution quality and droplet size provides optimal coverage and efficacy.

Features Include:

- Tapered edge wide angle flat spray pattern for uniform coverage in post-emerge applications.
- Excellent resistance to agrochemicals.
- Superior wear characteristics.
- Fine to Medium droplets for thorough coverage - 15-60 PSI (1-4 bar).
- Automatic spray alignment with 25612-* -NYR or 114441-* -CELR Quick TeeJet® cap and gasket.



SPRAY TIP (MESH SIZE)	LIQUID PRESSURE IN PSI	DROPLET SIZE	2 SPRAY TIPS									3 SPRAY TIPS								
			GPM	OZ/MIN	GPA 30"						GPM	OZ/MIN	GPA 30"							
					7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH			7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH		
XR11001 (100)	15	F	0.12	15	3.4	3.0	2.6	2.4	2.2	2.0	0.18	23	5.1	4.5	4.0	3.6	3.2	3.0		
	20	F	0.14	18	4.0	3.5	3.1	2.8	2.5	2.3	0.21	27	5.9	5.2	4.6	4.2	3.8	3.5		
	30	F	0.17	22	4.8	4.2	3.7	3.4	3.1	2.8	0.26	33	7.4	6.4	5.7	5.1	4.7	4.3		
	40	F	0.20	26	5.7	5.0	4.4	4.0	3.6	3.3	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0		
	50	F	0.22	28	6.2	5.4	4.8	4.4	4.0	3.6	0.33	42	9.3	8.2	7.3	6.5	5.9	5.4		
	60	VF	0.24	31	6.8	5.9	5.3	4.8	4.3	4.0	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9		
XR110015 (100)	15	F	0.18	23	5.1	4.5	4.0	3.6	3.2	3.0	0.28	36	7.9	6.9	6.2	5.5	5.0	4.6		
	20	F	0.22	28	6.2	5.4	4.8	4.4	4.0	3.6	0.33	42	9.3	8.2	7.3	6.5	5.9	5.4		
	30	F	0.26	33	7.4	6.4	5.7	5.1	4.7	4.3	0.39	50	11.0	9.7	8.6	7.7	7.0	6.4		
	40	F	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0	0.45	58	12.7	11.1	9.9	8.9	8.1	7.4		
	50	F	0.34	44	9.6	8.4	7.5	6.7	6.1	5.6	0.51	65	14.4	12.6	11.2	10.1	9.2	8.4		
	60	F	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9		
XR11002 (50)	15	M	0.24	31	6.8	5.9	5.3	4.8	4.3	4.0	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9		
	20	F	0.28	36	7.9	6.9	6.2	5.5	5.0	4.6	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9		
	30	F	0.34	44	9.6	8.4	7.5	6.7	6.1	5.6	0.51	65	14.4	12.6	11.2	10.1	9.2	8.4		
	40	F	0.40	51	11.3	9.9	8.8	7.9	7.2	6.6	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9		
	50	F	0.44	56	12.4	10.9	9.7	8.7	7.9	7.3	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9		
	60	F	0.48	61	13.6	11.9	10.6	9.5	8.6	7.9	0.72	92	20	17.8	15.8	14.3	13.0	11.9		
XR110025 (50)	15	M	0.30	38	8.5	7.4	6.6	5.9	5.4	5.0	0.45	58	12.7	11.1	9.9	8.9	8.1	7.4		
	20	M	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9		
	30	F	0.44	56	12.4	10.9	9.7	8.7	7.9	7.3	0.66	84	18.7	16.3	14.5	13.1	11.9	10.9		
	40	F	0.50	64	14.1	12.4	11.0	9.9	9.0	8.3	0.75	96	21	18.6	16.5	14.9	13.5	12.4		
	50	F	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9		
	60	F	0.62	79	17.5	15.3	13.6	12.3	11.2	10.2	0.93	119	26	23	20	18.4	16.7	15.3		
XR11003 (50)	15	M	0.36	46	10.2	8.9	7.9	7.1	6.5	5.9	0.54	69	15.3	13.4	11.9	10.7	9.7	8.9		
	20	M	0.42	54	11.9	10.4	9.2	8.3	7.6	6.9	0.63	81	17.8	15.6	13.9	12.5	11.3	10.4		
	30	F	0.52	67	14.7	12.9	11.4	10.3	9.4	8.6	0.78	100	22	19.3	17.2	15.4	14.0	12.9		
	40	F	0.60	77	17.0	14.9	13.2	11.9	10.8	9.9	0.90	115	25	22	19.8	17.8	16.2	14.9		
	50	F	0.68	87	19.2	16.8	15.0	13.5	12.2	11.2	1.02	131	29	25	22	20	18.4	16.8		
	60	F	0.74	95	21	18.3	16.3	14.7	13.3	12.2	1.11	142	31	27	24	22	20	18.3		
XR11004 (50)	15	M	0.48	61	13.6	11.9	10.6	9.5	8.6	7.9	0.72	92	20	17.8	15.8	14.3	13.0	11.9		
	20	M	0.56	72	15.8	13.9	12.3	11.1	10.1	9.2	0.84	108	24	21	18.5	16.6	15.1	13.9		
	30	M	0.70	90	19.8	17.3	15.4	13.9	12.6	11.6	1.05	134	30	26	23	21	18.9	17.3		
	40	M	0.80	102	23	19.8	17.6	15.8	14.4	13.2	1.20	154	34	30	26	24	22	19.8		
	50	F	0.90	115	25	22	19.8	17.8	16.2	14.9	1.35	173	38	33	30	27	24	22		
	60	F	0.98	125	28	24	22	19.4	17.6	16.2	1.47	188	42	36	32	29	26	24		

TURBO TEEJET® WIDE ANGLE SPRAY TIPS

The Turbo TeeJet spray tip is ideal for use with the 360 UNDERCOVER™ application system. Excellent spray distribution quality and droplet size provides optimal coverage and efficacy.

Features Include:

- Tapered edge wide angle flat spray pattern for uniform coverage in broadcast spraying.
- Excellent resistance to corrosive solutions.
- Superior wear characteristics.
- Larger droplets for less drift- 15-90 PSI (1-6 bar).
- Automatic spray alignment with 25612*-NYR or 114441*-CELR Quick TeeJet® cap and gasket.



20" Rate Chart

SPRAY TIP (MESH SIZE)	LIQUID PRESSURE IN PSI	DROPLET SIZE	2 SPRAY TIPS								3 SPRAY TIPS							
			GPM	OZ/MIN	GPA 20"						GPM	OZ/MIN	GPA 20"					
					7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH			7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH
TT11001 (100)	15	C	0.12	15	5.1	4.5	4.0	3.6	3.2	3.0	0.18	23	7.6	6.7	5.9	5.3	4.9	4.5
	20	C	0.14	18	5.9	5.2	4.6	4.2	3.8	3.5	0.21	27	8.9	7.8	6.9	6.2	5.7	5.2
	30	M	0.17	22	7.2	6.3	5.6	5.0	4.6	4.2	0.26	33	11.0	9.7	8.6	7.7	7.0	6.4
	40	M	0.20	26	8.5	7.4	6.6	5.9	5.4	5.0	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4
	50	M	0.22	28	9.3	8.2	7.3	6.5	5.9	5.4	0.33	42	14.0	12.3	10.9	9.8	8.9	8.2
	60	F	0.24	31	10.2	8.9	7.9	7.1	6.5	5.9	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9
	70	F	0.26	33	11.0	9.7	8.6	7.7	7.0	6.4	0.39	50	16.5	14.5	12.9	11.6	10.5	9.7
	80	F	0.28	36	11.9	10.4	9.2	8.3	7.6	6.9	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4
	90	F	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4	0.45	58	19.1	16.7	14.9	13.4	12.2	11.1
TT110015 (100)	15	VC	0.18	23	7.6	6.7	5.9	5.3	4.9	4.5	0.28	36	11.9	10.4	9.2	8.3	7.6	6.9
	20	C	0.22	28	9.3	8.2	7.3	6.5	5.9	5.4	0.33	42	14.0	12.3	10.9	9.8	8.9	8.2
	30	M	0.26	33	11.0	9.7	8.6	7.7	7.0	6.4	0.39	50	16.5	14.5	12.9	11.6	10.5	9.7
	40	M	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4	0.45	58	19.1	16.7	14.9	13.4	12.2	11.1
	50	M	0.34	44	14.4	12.6	11.2	10.1	9.2	8.4	0.51	65	22	18.9	16.8	15.1	13.8	12.6
	60	F	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
	70	F	0.40	51	17.0	14.9	13.2	11.9	10.8	9.9	0.60	77	25	22	19.8	17.8	16.2	14.9
	80	F	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4	0.63	81	27	23	21	18.7	17.0	15.6
	90	F	0.46	59	19.5	17.1	15.2	13.7	12.4	11.4	0.69	88	29	26	23	20	18.6	17.1
TT11002 (50)	15	VC	0.24	31	10.2	8.9	7.9	7.1	6.5	5.9	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9
	20	VC	0.28	36	11.9	10.4	9.2	8.3	7.6	6.9	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4
	30	C	0.34	44	14.4	12.6	11.2	10.1	9.2	8.4	0.51	65	22	18.9	16.8	15.1	13.8	12.6
	40	M	0.40	51	17.0	14.9	13.2	11.9	10.8	9.9	0.60	77	25	22	19.8	17.8	16.2	14.9
	50	M	0.44	56	18.7	16.3	14.5	13.1	11.9	10.9	0.66	84	28	25	22	19.6	17.8	16.3
	60	M	0.48	61	20	17.8	15.8	14.3	13.0	11.9	0.72	92	31	27	24	21	19.4	17.8
	70	F	0.52	67	22	19.3	17.2	15.4	14.0	12.9	0.78	100	33	29	26	23	21	19.3
	80	F	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	90	F	0.60	77	25	22	19.8	17.8	16.2	14.9	0.90	115	38	33	30	27	24	22
TT110025 (50)	15	VC	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4	0.45	58	19.1	16.7	14.9	13.4	12.2	11.1
	20	VC	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
	30	C	0.44	56	18.7	16.3	14.5	13.1	11.9	10.9	0.66	84	28	25	22	19.6	17.8	16.3
	40	M	0.50	64	21	18.6	16.5	14.9	13.5	12.4	0.75	96	32	28	25	22	20	18.6
	50	M	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	60	M	0.62	79	26	23	20	18.4	16.7	15.3	0.93	119	39	35	31	28	25	23
	70	F	0.66	84	28	25	22	19.6	17.8	16.3	0.99	127	42	37	33	29	27	25
	80	F	0.70	90	30	26	23	21	18.9	17.3	1.05	134	45	39	35	31	28	26
	90	F	0.76	97	32	28	25	23	21	18.8	1.14	146	48	42	38	34	31	28
TT11003 (50)	15	VC	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
	20	VC	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4	0.63	81	27	23	21	18.7	17.0	15.6
	30	C	0.52	67	22	19.3	17.2	15.4	14.0	12.9	0.78	100	33	29	26	23	21	19.3
	40	C	0.60	77	25	22	19.8	17.8	16.2	14.9	0.90	115	38	33	30	27	24	22
	50	M	0.68	87	29	25	22	20	18.4	16.8	1.02	131	43	38	34	30	28	25
	60	M	0.74	95	31	27	24	22	20.0	18.3	1.11	142	47	41	37	33	30	27
	70	M	0.80	102	34	30	26	24	22	19.8	1.20	154	51	45	40	36	32	30
	80	M	0.84	108	36	31	28	25	23	21	1.26	161	53	47	42	37	34	31
	90	F	0.90	115	38	33	30	27	24	22	1.35	173	57	50	45	40	36	33
TT11004 (50)	15	XC	0.48	61	20	17.8	15.8	14.3	13.0	11.9	0.72	92	31	27	24	21	19.4	17.8
	20	VC	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	30	C	0.70	90	30	26	23	21	18.9	17.3	1.05	134	45	39	35	31	28	26
	40	C	0.80	102	34	30	26	24	22	19.8	1.20	154	51	45	40	36	32	30
	50	M	0.90	115	38	33	30	27	24	22	1.35	173	57	50	45	40	36	33
	60	M	0.98	125	42	36	32	29	26	24	1.47	188	62	55	49	44	40	36
	70	M	1.06	136	45	39	35	31	29	26	1.59	204	67	59	52	47	43	39
	80	M	1.14	146	48	42	38	34	31	28	1.71	219	73	63	56	51	46	42
	90	M	1.20	154	51	45	40	36	32	30	1.80	230	76	67	59	53	49	45

TURBO TWINJET® WIDE ANGLE SPRAY TIPS

The Turbo TwinJet spray tip is ideal for use with the 360 UNDERCOVER™ application system. Excellent spray distribution quality and droplet size provides optimal coverage and efficacy.

Features Include:

- Twin, tapered edge flat spray patterns for very thorough coverage in broadcast spraying.
- Excellent resistance to agrochemicals.
- Superior wear characteristics.
- Medium to Very Coarse droplets for less drift- 20-90 PSI (1.5-6 bar).
- Automatic spray alignment with 25612*-NYR or 114441*-CELR Quick TeeJet® cap and gasket.



20" Rate Chart

SPRAY TIP (MESH SIZE)	LIQUID PRESSURE IN PSI	DROPLET SIZE	2 SPRAY TIPS								3 SPRAY TIPS							
			GPM	OZ/MIN	GPA 20"						GPM	OZ/MIN	GPA 20"					
					7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH			7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH
TTJ60-11002 (100)	20	C	0.28	36	11.9	10.4	9.2	8.3	7.6	6.9	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4
	30	C	0.34	44	14.4	12.6	11.2	10.1	9.2	8.4	0.51	65	22	18.9	16.8	15.1	13.8	12.6
	40	C	0.40	51	17.0	14.9	13.2	11.9	10.8	9.9	0.60	77	25	22	19.8	17.8	16.2	14.9
	50	M	0.44	56	18.7	16.3	14.5	13.1	11.9	10.9	0.66	84	28	25	22	19.6	17.8	16.3
	60	M	0.48	61	20	17.8	15.8	14.3	13.0	11.9	0.72	92	31	27	24	21	19.4	17.8
	70	M	0.52	67	22	19.3	17.2	15.4	14.0	12.9	0.78	100	33	29	26	23	21	19.3
	80	M	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
90	M	0.60	77	25	22	19.8	17.8	16.2	14.9	0.90	115	38	33	30	27	24	22	
TTJ60-110025 (100)	20	VC	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
	30	C	0.44	56	18.7	16.3	14.5	13.1	11.9	10.9	0.66	84	28	25	22	19.6	17.8	16.3
	40	C	0.50	64	21	18.6	16.5	14.9	13.5	12.4	0.75	96	32	28	25	22	20	18.6
	50	C	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	60	C	0.62	79	26	23	20	18.4	16.7	15.3	0.93	119	39	35	31	28	25	23
	70	M	0.66	84	28	25	22	19.6	17.8	16.3	0.99	127	42	37	33	29	27	25
	80	M	0.70	90	30	26	23	21	18.9	17.3	1.05	134	45	39	35	31	28	26
90	M	0.76	97	32	28	25	23	21	18.8	1.14	146	48	42	38	34	31	28	
TTJ60-11003 (100)	20	VC	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4	0.63	81	27	23	21	18.7	17.0	15.6
	30	C	0.52	67	22	19.3	17.2	15.4	14.0	12.9	0.78	100	33	29	26	23	21	19.3
	40	C	0.60	77	25	22	19.8	17.8	16.2	14.9	0.90	115	38	33	30	27	24	22
	50	C	0.68	87	29	25	22	20	18.4	16.8	1.02	131	43	38	34	30	28	25
	60	C	0.74	95	31	27	24	22	20.0	18.3	1.11	142	47	41	37	33	30	27
	70	C	0.80	102	34	30	26	24	22	19.8	1.20	154	51	45	40	36	32	30
	80	M	0.84	108	36	31	28	25	23	21	1.26	161	53	47	42	37	34	31
90	M	0.90	115	38	33	30	27	24	22	1.35	173	57	50	45	40	36	33	
TTJ60-11004 (50)	20	VC	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	30	C	0.70	90	30	26	23	21	18.9	1.05	134	45	39	35	31	28	26	
	40	C	0.80	102	34	30	26	24	22	19.8	1.20	154	51	45	40	36	32	30
	50	C	0.90	115	38	33	30	27	24	22	1.35	173	57	50	45	40	36	33
	60	C	0.98	125	42	36	32	29	26	24	1.47	188	62	55	49	44	40	36
	70	C	1.06	136	45	39	35	31	29	26	1.59	204	67	59	52	47	43	39
	80	C	1.14	146	48	42	38	34	31	28	1.71	219	73	63	56	51	46	42
90	M	1.20	154	51	45	40	36	32	30	1.80	230	76	67	59	53	49	45	

XR TEEJET® FLAT SPRAY TIPS

The XR TeeJet spray tip is ideal for use with the 360 UNDERCOVER™ application system. Excellent spray distribution quality and droplet size provides optimal coverage and efficacy.

Features Include:

- Tapered edge wide angle flat spray pattern for uniform coverage in post-emerge applications.
- Excellent resistance to agrochemicals.
- Superior wear characteristics.
- Fine to Medium droplets for thorough coverage - 15-60 PSI (1-4 bar).
- Automatic spray alignment with 25612-* -NYR or 114441-* -CELR Quick TeeJet® cap and gasket.



20" Rate Chart

SPRAY TIP (MESH SIZE)	LIQUID PRESSURE IN PSI	DROPLET SIZE	2 SPRAY TIPS								3 SPRAY TIPS							
			GPM	OZ/MIN	GPA 20"						GPM	OZ/MIN	GPA 20"					
					7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH			7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH
XR11001 (100)	15	F	0.12	15	5.1	4.5	4.0	3.6	3.2	3.0	0.18	23	7.6	6.7	5.9	5.3	4.9	4.5
	20	F	0.14	18	5.9	5.2	4.6	4.2	3.8	3.5	0.21	27	8.9	7.8	6.9	6.2	5.7	5.2
	30	F	0.17	22	7.2	6.3	5.6	5.0	4.6	4.2	0.26	33	11.0	9.7	8.6	7.7	7.0	6.4
	40	F	0.20	26	8.5	7.4	6.6	5.9	5.4	5.0	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4
	50	F	0.22	28	9.3	8.2	7.3	6.5	5.9	5.4	0.33	42	14.0	12.3	10.9	9.8	8.9	8.2
	60	VF	0.24	31	10.2	8.9	7.9	7.1	6.5	5.9	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9
XR110015 (100)	15	F	0.18	23	7.6	6.7	5.9	5.3	4.9	4.5	0.28	36	11.9	10.4	9.2	8.3	7.6	6.9
	20	F	0.22	28	9.3	8.2	7.3	6.5	5.9	5.4	0.33	42	14.0	12.3	10.9	9.8	8.9	8.2
	30	F	0.26	33	11.0	9.7	8.6	7.7	7.0	6.4	0.39	50	16.5	14.5	12.9	11.6	10.5	9.7
	40	F	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4	0.45	58	19.1	16.7	14.9	13.4	12.2	11.1
	50	F	0.34	44	14.4	12.6	11.2	10.1	9.2	8.4	0.51	65	22	18.9	16.8	15.1	13.8	12.6
	60	F	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
XR11002 (50)	15	M	0.24	31	10.2	8.9	7.9	7.1	6.5	5.9	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9
	20	F	0.28	36	11.9	10.4	9.2	8.3	7.6	6.9	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4
	30	F	0.34	44	14.4	12.6	11.2	10.1	9.2	8.4	0.51	65	22	18.9	16.8	15.1	13.8	12.6
	40	F	0.40	51	17.0	14.9	13.2	11.9	10.8	9.9	0.60	77	25	22	19.8	17.8	16.2	14.9
	50	F	0.44	56	18.7	16.3	14.5	13.1	11.9	10.9	0.66	84	28	25	22	19.6	17.8	16.3
	60	F	0.48	61	20	17.8	15.8	14.3	13.0	11.9	0.72	92	31	27	24	21	19.4	17.8
XR110025 (50)	15	M	0.30	38	12.7	11.1	9.9	8.9	8.1	7.4	0.45	58	19.1	16.7	14.9	13.4	12.2	11.1
	20	M	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
	30	F	0.44	56	18.7	16.3	14.5	13.1	11.9	10.9	0.66	84	28	25	22	19.6	17.8	16.3
	40	F	0.50	64	21	18.6	16.5	14.9	13.5	12.4	0.75	96	32	28	25	22	20	18.6
	50	F	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	60	F	0.62	79	26	23	20	18.4	16.7	15.3	0.93	119	39	35	31	28	25	23
XR11003 (50)	15	M	0.36	46	15.3	13.4	11.9	10.7	9.7	8.9	0.54	69	23	20	17.8	16.0	14.6	13.4
	20	M	0.42	54	17.8	15.6	13.9	12.5	11.3	10.4	0.63	81	27	23	21	18.7	17.0	15.6
	30	F	0.52	67	22	19.3	17.2	15.4	14.0	12.9	0.78	100	33	29	26	23	21	19.3
	40	F	0.60	77	25	22	19.8	17.8	16.2	14.9	0.90	115	38	33	30	27	24	22
	50	F	0.68	87	29	25	22	20	18.4	16.8	1.02	131	43	38	34	30	28	25
	60	F	0.74	95	31	27	24	22	20.0	18.3	1.11	142	47	41	37	33	30	27
XR11004 (50)	15	M	0.48	61	20	17.8	15.8	14.3	13.0	11.9	0.72	92	31	27	24	21	19.4	17.8
	20	M	0.56	72	24	21	18.5	16.6	15.1	13.9	0.84	108	36	31	28	25	23	21
	30	M	0.70	90	30	26	23	21	18.9	17.3	1.05	134	45	39	35	31	28	26
	40	M	0.80	102	34	30	26	24	22	19.8	1.20	154	51	45	40	36	32	30
	50	F	0.90	115	38	33	30	27	24	22	1.35	173	57	50	45	40	36	33
	60	F	0.98	125	42	36	32	29	26	24	1.47	188	62	55	49	44	40	36

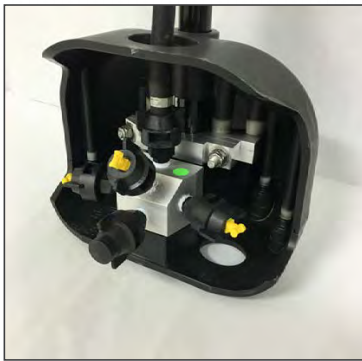
360 UNDERCOVER® NOZZLE QUICK GUIDE



This quick reference guide is intended to provide a simple resource for choosing spray nozzle tips for 360 UNDERCOVER®. This guide will also identify proper orientation of spray tips on 360 UNDERCOVER units. There are many choices of spray nozzle tips on the market. This guide identifies which nozzles we, at 360 Yield Center, use in a variety of cropping situations. Always refer to the product label for proper rate and application information.

For more detailed and specific 360 UNDERCOVER spray nozzle tip information, please refer to the [360 UNDERCOVER Nozzle Selection Guide](#).

⊕ COMMON NOZZLE SETUPS



Corn/Sorghum



Soybeans/Wheat

For late season (after full tassel emergence) fungicide application in corn, you can also run 1 nozzle up on the boom simultaneously with 360 UNDERCOVER. When doing this, you can plug both center nozzles on the 360 UNDERCOVER unit and just run outside nozzles. This will allow you to adhere to the rate charts that we have configured by maintaining three spray nozzles per row.

⊕ NOZZLE ORIENTATION

Turbo TeeJet®

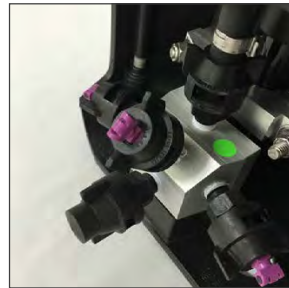


Top Nozzle: Nozzle Opening Upwards



Side Nozzles: Nozzle Opening Rearwards

Turbo TwinJet®



Top Nozzle



Side Nozzles

360 UNDERCOVER[®] NOZZLE QUICK GUIDE



⊕ COMMON NOZZLE SETUPS

The table below covers a variety of cropping scenarios. The nozzle selection is made assuming 3 nozzle tips per 360 UNDERCOVER unit.

360 UNDERCOVER Spray Tip Options For All Crops

Number of Nozzles Per Row	3	3	3	3	3	4
Spacing	30"	20"	15"	30"	30"	30"
Rate	15 GPA	15 GPA	15 GPA	10 GPA	20 GPA	20 GPA
Target Pressure	55 PSI	40 PSI	53 PSI	40 PSI	60 PSI	53 PSI
Speed	9 MPH	9 MPH	9 MPH	9 MPH	9 MPH	9 MPH
Turbo TeeJet [®] Nozzle	TT11002	TT110015	TT11001	TT110015	TT110025	TT11002
Turbo TeeJet [®] Nozzle Droplet Size	M (Medium)	M (Medium)	M/F (Medium/ Fine)	M (Medium)	M (Medium)	M (Medium)
Turbo TwinJet [®] Nozzle	TTJ60- 11002	N/A	N/A	N/A	TTJ60- 110025	TTJ60- 11002
Turbo TwinJet [®] Nozzle Droplet Size	M (Medium)	N/A	N/A	N/A	C (Coarse)	M (Medium)

Turbo TeeJet[®] spray tips are a great choice to use with 360 UNDERCOVER for their ability to maintain a consistent spray pattern with varying application pressures. We suggest using a spray nozzle tip that will achieve a Medium to Fine droplet size but always refer to the product label to validate proper and effective application practices. Turbo TwinJet[®] spray nozzle tips will produce larger droplet sizes than the Turbo TeeJet[®]. Consider running higher rates with Turbo TwinJet[®] spray nozzle tips so that ideal droplet size is maintained and coverage is maximized. Please see [360 UNDERCOVER Nozzle Selection Guide](#) for further detail.

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