

# 7 SERIES MICRO SPRINKLERS



**SPINNER** 15-50 psi (1.0-3.4 bar) 8.5-75 gph (32-285 lph) 9-16' (2.7-4.9 m)



15-50 psi (1.0-3.4 bar) 8.5-75 gph (32-285 lph) 4-6' (1.2-1.8 m)



ROTATOR<sup>®</sup>
Coming Soon!





SAID AND DONE - THE S7 SPINNER DELIVERS LOWER ENERGY AND LABOR COSTS AND A HIGHER LEVEL OF QUALITY, RELIABILITY AND DURABILITY THAN ANY OTHER MICRO SPRINKLER. THE NEW J7 JET IS IDEAL FOR STARTING YOUNG TREES. THE R7 ROTATOR® (COMING SOON!) WILL PROVIDE LOW APPLICATION RATE FULL COVERAGE IRRIGATION WITH THE HIGHEST UNIFORMITY.



7FC flow control nozzles are flow regulating from 15-50 PSI.



Simply turn, flush and reconnect sprinkler — save time and money by reducing labor.



Designed with heavy-duty ball at the top of the spin plate, ensuring durability and longevity.



# **S7 SPINNER**



NOZZLE \*30 Black \*35 Orange \*40 Blue

\*45 Purple

Orange \*11 GPH Blue \*14 GPH Purple \*18 GPH Yellow \*50 Green \*55 Yellow \*24 GPH Red

**7FC NOZZLE** \*09 (8.5) GPH

\*60 Light Red \*65 Gray \*70 White

# STANDARD 12890-XXXX FLOW CONTROL 12891-XXXX

BLUE PLATE	PURPLE PLATE	BLACK PLATE	TAN PLATE
Without Deflector	Without Deflector	Without Deflector	Without Deflector
= 21	= 23	= 25	= 27
With Deflector	With Deflector	With Deflector	With Deflector
= 22	= 24	= 26	= 28

# **PLATE DESCRIPTIONS:**

(Please see the S7 Literature for recommended pressures.)

BLUE: Greatest throw radius, recommended with all nozzles except #30 and #35.

PURPLE: For low pressure and low flow, recommended with only \*35 and 8.5 FC nozzles.

**BLACK:** Mid-range radius and flat trajectory, use with \*35 to \*60, and 8.5, 11, 14, 18, and 24 FC nozzles.

TAN: Short radius and flat trajectory, use with \*35 to \*55, and 8.5, 11, 14, 18, and 24 FC nozzles.



One-Sided Stream Splitter

13149

**7 SERIES STREAM** SPLITTERS



Two-Sided Stream Splitter 13150

J7 JET

NOZZLE\*

STANDARD 13439-XXXX FLOW CONTROL 13440-XXXX



**DEFLECTOR PLATE** 

Red = **01** 

3' (0.9 m) Radius with 8" Mounting Height

The J7 has no moving parts and is optimal for starting trees.

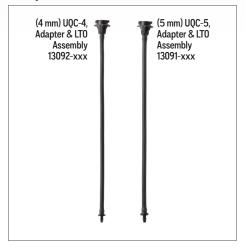


DESCRIPTION	Standard S7 Assy including Plate & Nozzle	S7 Assembly including Plate & FCN Nozzle	QC x 1/2 MNPT 13064-001	QC x 3/8 MNPT 13064-002
BOX	12x12x10"	12×12×10"	12×12×10"	12x12x8"
QTY/B0X	600	600	1400	1500
LBS/B0X	17	17	14	11



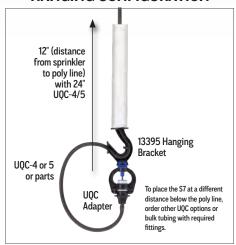
# INTRODUCING THE NEW UQC-4 & UQC-5 UNIVERSAL MOUNTING CONFIGURATIONS

# ALL REQUIRE: UQC-4/5 ASSEMBLY OR PARTS



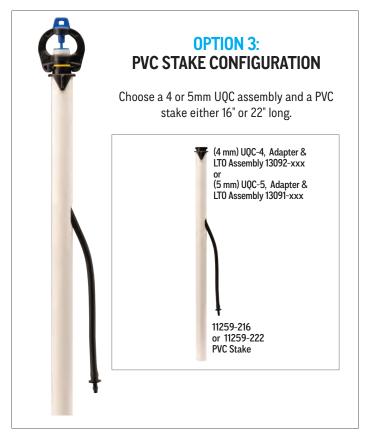
UQC-4 (13092-xxx) & UQC-5 (13091-xxx) configurations include a UQC Adapter and Tube & LTO Assembly.

# OPTION 1: HANGING CONFIGURATION



The S7 Hanging Bracket (13395) is required to hang the S7. This configuration is a great solution for organic orchardists.





# **UQC-4** & **UQC-5** UNIVERSAL SYSTEM

The new universal mounting system is another step in making the 7 Series the best micro-irrigation system out there. Choose tubing assembly parts or assemblies (UQC-4 or 5) and PVC stake/rod stake or hanging components.

# (4 MM) UQC-4, ADAPTER & LTO ASSEMBLY (13092-XXX\*) & PARTS

		TUBE & LTO ASSEMBLY				UQC-4*, ADAPTER & LTO ASSY					
	Adapter,										
	UQC-4, 4 mm	4 mm x 12"	4 mm x 18"	4 mm x 24"	4 mm x 30"	4 mm x 48"	4 mm x 12"	4 mm x 18"	4 mm x 24"	4 mm x 30"	4 mm x 48"
DESCRIPTION	Tube x QC	(30 cm)	(45 cm)	(61 cm)	(76 cm)	(122 cm)	(30 cm) Tube	(46 cm) Tube	(61 cm) Tube	(76 cm) Tube	(122 cm) Tube
PART NO.	12990-002	9960-912	9960-918	9960-924	9960-930	9960-948	13092-012	13092-018	13092-024	13092-030	13092-048

<sup>\*</sup>QC-4 includes the 9960-9xx and the 12900-002 4 mm QC adapter

# (5 MM) UQC-5, ADAPTER & LTO ASSEMBLY (13091-XXX\*\*) & PARTS

	Adaptor	TUBE & LTO ASSEMBLY			UQC-5**, ADPT & LTO ASSY		
DESCRIPTION	Adapter, UQC-5, 5 mm Tube x QC	5 mm x 30" (76 cm)	5 mm x 48" (122 cm)	5 mm x 72" (183 cm)	5 mm x 30" (76 cm) Tube	5 mm x 48" (122 cm) Tube	5 mm x 72" (183 cm)
PART NO.	12990-001	11283-030	11283-048	11283-072	13091-030	13091-048	13091-072

 $<sup>^{**}\</sup>mbox{UQC-5}$  includes the 11283-0xx and the 12900-001 5 mm QC adapter

### UQC-4 ADAPTER & LTO ASSEMBLY 13092-0XX

12990-002 Adapter, UQC-4, 4 mm Tube x QC

9960-xxx 4 mm Tube & LT0 - Assembly UQC-5 ADAPTER & LTO ASSEMBLY 13091-0XX

12990-001 Adapter, UQC-5, 5 mm Tube x QC

11283-xxx 5 mm Tube & LTO Assembly

# **ROD STAKES & ADAPTER**

DESCRIPTION	Universal Rod Stake Adapter (for 6.3mm & 8mm Stakes)	Stake Steel, 1/4" (6.3mm) x 24" (61 cm)	Stake Fiberglass, 1/4" (6.3 mm) x 24" (61 cm)
PART NO.	13608	9726-024	10040-024



### **PVC STAKE OPTIONS**

	Stake, PVC	Stake, PVC
DESCRIPTION	with hole, 1/2" x 16" (40 cm)	with hole, 1/2" x 22" (56 cm)
PART NO.	11259-216	11259-222





# 4 & 5 MM STAKE & TUBE OPTIONS FOR THE 7 SERIES



4 MM ASSEMBLIES MAX. FLOW LIMIT = 20 GPH (76 LPH) 5 MM ASSEMBLIES MAX. FLOW LIMIT = 39 GPH (148 LPH)

1/2" PVC-4 QC (4 MM) STAKE & TUBE ASSEMBLY (#13090-2XXXX) & PARTS

		TUBE & LTO ASSEMBLY		1/2" PVC-4 QC		
DESCRIPTION	Adapter, UQC-4, 4 mm Tube x QC	4 mm x 30" (76 cm)	4 mm x 48" (122 cm)	16" Stake x 4 mm x 30" (76 cm) Tubing	22" Stake x 4 mm x 30" (76 cm) Tubing	16" Stake x 4 mm x 48" (76 cm) Tubing
PART NO.	12990-002	9960-930	9960-948	13090-21630	13090-22230	13090-21648

# 1/2" PVC-5 QC (5 MM) STAKE & TUBE ASSEMBLY (#13089-2XXXX) & PARTS

		TUBE & LTO ASSEMBLY		1/2" PVC-5 QC		
DESCRIPTION	Adapter, UQC-5, 5 mm Tube x QC	5 mm x 30" (76 cm)	5 mm x 48" (122 cm)	16" Stake x 5 mm x 30" (76 cm) Tubing	22" Stake x 5 mm x 30" (76 cm) Tubing	22" Stake x 5 mm x 48" (76 cm) Tubing
PART NO.	12990-001	11283-030	11283-048	13089-21630	13089-22230	13089-22248

NOTE: The 1/2 PVC-5 can also be used with the S7 sprinkler. #12972 QC x Female ACME adapter is required.

# 16" QC4 (4 MM) STAKE & TUBE ASSEMBLY (#12983-0XX) & PARTS

		TUBE & LTO ASSEMBLY		QC4, STAKE & TUBE ASSY	
DESCRIPTION	QC4 Stake for 4 mm tubing	4 mm x 30" (76 cm)	4 mm x 48" (122 cm)	16" Stake x 30" (76 cm) 4 mm Tube	16" Stake x 48" (122 cm) 4 mm Tube
PART NO.	12981-002	9960-930	9960-948	12983-030	12983-048

Use QC Stake Install Tool 13429 to pre-drill holes for the QC4 and QC5 stakes. This ensures that the stakes will be installed without any bending and in an upright position.

# 16" QC5 (5 MM) STAKE & TUBE ASSEMBLY (#12982-0XX) & PARTS

		TUBE & LTO ASSEMBLY		QC5, STAKE & TUBE ASSY		
DESCRIPTION	QC5 Stake for 5 mm tubing	5 mm x 30" (76 cm)	5 mm x 48" (122 cm)	16" (40 cm) Stake x 30" (76 cm) 5 mm Tube	16" (40 cm) Stake x 48" (122 cm) 5 mm Tube	
PART NO.	12981-001	11283-030	11283-048	12982-030	12982-048	

# TOOLS & PARTS FOR **\$7, J7** STAKE & TUBE ASSEMBLIES

DESCRIPTION	PART NO.
Tube, 4 mm x 1000' (305 m) Coil	10081-002
Tube, 4 mm x 328' (100 m) Coil	10081
Punch Tool, 4 mm Green	10997
Coupler, 4 mm Barb x 5 mm Barb	13142
LTO, 4 mm, Barb x Barb	10080
Tube & LTO Assembly, 4 mm x 30" (76 cm)	9960-930
Goof plug, 4 mm LTO & 5 mm LTO (Order in multiples of 6)	13435

Tube, 5 mm x 1000' (305 m) Coil	9284
Tube, 5 mm x 328' (100 m) Coil	9284-002
Punch Tool, 5 mm Red	9349
LTO, 5 mm, Barb x Barb	12023
Tube & LTO Assembly, 5 mm x 72" (183 cm)	11283-072
Stake installation Tool, QC4/QC5/FT3	13429

# **S7** SPINNER PERFORMANCE

# S7 SPINNER W/ BLUE PLATE (RECOMMENDED PRESSURE RANGE 15-40 PSI / 1.0-2.8 BAR)

		PRESSURE IN PSI														PRESSURE IN BAR												
	1	5	2	0	2	5	30		3	5	4	0	45		50		1.0		1.5		2.0		2.5		3.0		3.5	
NOZZLE	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	LPH	R (M)										
<b>"35</b> Orange									11.7	13	12.5	13	13.3	13	14.0	12							45	3.8	49	3.8	54	3.7
<b>*40</b> Blue	9.4	11	10.9	12	12.2	13	13.4	14	14.6	14	15.5	14	16.6	14	17.5	13	35	3.2	43	3.8	50	4.2	56	4.3	62	4.2	67	3.9
<b>*45</b> Purple	12.0	12	13.9	13	15.6	14	17.2	14	18.6	14	19.9	14	21.2	15	22.3	14	45	3.5	55	4.0	64	4.3	72	4.5	79	4.4	85	4.2
<b>*50</b> Green	14.6	12	16.9	14	18.9	15	20.8	15	22.5	15	24.1	15	25.6	15	27.2	14	54	3.8	67	4.3	77	4.4	87	4.7	95	4.6	103	4.3
*55 Yellow	17.6	13	20.4	14	22.9	15	25.1	15	27.1	15	29.0	15	30.9	16	32.7	15	65	3.9	80	4.3	93	4.5	105	4.7	115	4.7	124	4.7
<b>"60</b> Light Red	21.2	13	24.5	14	27.6	15	30.2	16	32.7	16	35.1	16	37.3	16	39.4	16	79	3.9	97	4.3	113	4.6	126	4.8	139	4.9	150	4.8
<b>*65</b> Gray	27.4	13	31.8	14	35.7	15	39.2	16	42.4	16	45.4	16	48.3	16	51.1	16	102	3.9	126	4.4	146	4.7	164	5.0	180	5.0	195	5.0
<b>"70</b> White	31.9	13	37.0	15	41.4	15	45.5	16	49.2	16	52.8	16	56.0	16	59.1	16	119	3.9	146	4.5	169	4.8	190	5.0	208	4.9	226	4.7
● "78 Dark Blue	40.5	13	47.0	15	52.7	15	57.8	16	62.6	16	67.0	16	71.2	16	75.3	15	151	4.0	186	4.6	215	4.9	241	5.0	265	4.9	287	4.5
8.5 Orange 7FC	8.2	11	8.5	11	8.8	11	8.8	10	8.7	10	8.5	9	8.2	9	7.8	9	31	3.3	33	3.1	34	3.0	33	2.9	32	2.9	29	3.0
11 Blue 7FC	11.3	11	11.7	12	11.7	12	11.3	12	10.7	12	10.1	12	9.9	12	9.8	11	42	3.4	45	3.5	43	3.6	40	3.6	37	3.5	37	3.3
14 Purple 7FC	14.4	12	14.8	14	14.7	14	14.4	14	13.8	14	13.4	13	13.1	13	12.9	12	54	3.8	56	4.1	55	4.2	52	4.2	50	3.9	49	3.6
18 Yellow 7FC	17.9	13	18.6	14	18.6	15	18.2	15	17.5	15	17.3	14	17.3	14	17.4	13	67	3.9	71	4.3	69	4.5	66	4.4	65	4.2	66	3.7
<b>24</b> Red 7FC	23.4	13	24.9	14	25.6	15	25.7	15	25.3	15	24.1	15	23.5	15	23.4	14	88	4.0	95	4.3	98	4.5	94	4.5	89	4.4	89	4.0

# S7 SPINNER W/ PURPLE PLATE

				PRE	SSU	RE IN	PRESSURE IN BAR											
	1	5	2	0	2	5	3	0	3	5	1.	0	1.	5	2	.0	2.5	
NOZZLE	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	LPH	R (M)						
<b>"35</b> Orange	7.5	10	8.7	10	9.8	11	10.8	11	11.7	11	28	3	35	3.4	40	3.4	45	3.4
<b>8.5</b> Orange 7FC	8.2	10	8.5	10	8.8	10	8.8	9	8.7	9	31	3	33	3	34	3	33	2.7

# 7FC FLOW CONTROL NOZZLE Cv\*

<b>8.5</b> Orange 7FC	0.024
11 Blue 7FC	0.024
14 Purple 7FC	0.036
18 Yellow 7FC	0.030
<b>24</b> Red 7FC	0.016

<sup>\*</sup>Manufacturer's Coefficient of Variation

# S7 SPINNER W/ BLACK PLATE

		PRESSURE IN PSI														PRESSURE IN BAR									
	1	5	2	0	2	5	3	0	3	5	4	0	1.0		1.5		2.0		2.5		2.7	75			
NOZZLE	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)	LPH	R (M)			
<b>"35</b> Orange	7.5	7	8.7	7	9.8	7	10.8	7	11.7	8	12.5	8	28	2.1	35	2.1	40	2.2	45	2.4	47	2.5			
<b>*40</b> Blue	9.4	7	10.9	8	12.2	8	13.4	8	14.6	8	15.5	8	35	2.1	43	2.3	50	2.4	56	2.4	59	2.4			
<b>*45</b> Purple	12.0	8	13.9	9	15.6	9	17.2	9	18.6	9	19.9	9	45	2.4	55	2.6	64	2.7	72	2.7	75	2.7			
<b>"50</b> Green	14.6	8	16.9	9	18.9	9	20.8	10	22.5	10	24.1	10	54	2.5	67	2.7	77	2.9	87	2.9	91	2.9			
*55 Yellow	17.6	9	20.4	9	22.9	10	25.1	10	27.1	10	29.0	10	65	2.6	80	2.9	93	3.1	105	3.1	110	3.1			
● *60 Light Red	21.2	9	24.5	10	27.6	10	30.2	11	32.7	11	35.1	11	79	2.7	97	3	113	3.2	126	3.3	133	3.3			
<b>8.5</b> Orange 7FC	8.2	8	8.5	7	8.8	7	8.8	7	8.7	7	8.5	7	31	2.5	33	2.2	34	2.1	33	2.1	32	2.1			
11 Blue 7FC	11.3	8	11.7	8	11.7	8	11.3	8	10.7	8	10.1	8	42	2.4	45	2.4	43	2.4	40	2.4	39	2.4			
<b>14</b> Purple 7FC	14.4	8	14.8	8	14.7	8	14.4	8	13.8	8	13.4	8	54	2.4	56	2.4	55	2.4	52	2.4	51	2.4			
18 Yellow 7FC	17.9	9	18.6	9	18.6	9	18.2	9	17.5	9	17.3	9	67	2.7	71	2.7	69	2.7	66	2.7	65	2.7			
<b>24</b> Red 7FC	23.4	10	24.9	10	25.6	10	25.7	10	25.3	10	24.1	10	88	3	95	3	98	3	94	3	92	3			

# S7 SPINNER W/ TAN PLATE —PLEASE CALL FACTORY FOR PERFORMANCE



For one-sprinkler-per-tree solutions, look to the modularity of the 7 Series.



Use the S7 Spinner's optional break-off tab and short-range plate options for tree starting.



The 7 Series Quick Clean (QC) technology reduces irrigator hours — simply turn, flush and reconnect.



The S7 in a hanging configuration is a great solution for organic tree fruit growers.



The S7 is an excellent alternative to foggers for cooling fruit crops.



Use stake install tool 13429 to pre-make holes for the QC4 and QC5 stakes. This ensures that the stakes will be installed straight.



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WARRANTY & DISCLAIMER: Nelson S7 Spinners are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the product was designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair. The manufacturer's liability under this warranty is limited solely to replacement or repair of defective parts, and the manufacturer will not be liable for any crop or other consequential damages resulting from any defects in design or breach of warranty. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES AND OF ALL OTHER OBLIGATIONS OR LIABILITIES OF MANUFACTURER. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of warranty, nor to make representations or warranty not contained herein.





WIDE-AREA MICRO-IRRIGATION FOR HAZELNUTS & OTHER ORCHARD CROPS

# S / SPINNE







# NELSON IRRIGATION'S S7 SPINNER COVERS SIGNIFICANTLY MORE AREA THAN DRIP IRRIGATION ...

- The S7 Spinner covers 75-95% of the irrigated area in orchards and the system is about the same price as a dual line drip system.
- Capillary movement of water through the soil profile starts from an area many times larger than drip irrigation.
- The S7 provides wide-area, micro-irrigation for sandy soils, sloped fields and allows for cover crops and erosion control.
- In times of drought, the S7 replaces the water where the roots are expecting it.
- Wide coverage maximizes root development and tree stability and grows larger and more productive trees.
- The S7 is a low pressure option, starting at just 15 psi for both standard and flow control nozzles.

# **ADDITIONAL S7 FEATURES INCLUDE:**

- Nelson's Quick Clean (QC) technology reduces irrigator hours simply turn, flush and reconnect.
- · Insect protection helps prevent plugging or stalling.
- · Modular design allows quick and easy nozzle exchange.
- Optional PVC Stakes prevent tubing damage from coyotes and other animals.
- Optional tree starter (break off) deflector tabs offer flexibility.











# 17" QC STAKE & TUBE ASSEMBLY

DESCRIPTION	Feedtube Assembly, QC, 17" Stake x 30" Tubing	Feedtube Assembly, QC, 17" Stake x 48" Tubing	
PART NO.	12868-030	12868-048	l

# 1/2" PVC-4 QC STAKE & TUBE ASSEMBLIES

DESCRIPTION	1/2" PVC-4 QC, 16" Stake x 4mm x 30" Tubing	1/2" PVC4 QC, 22" Stake x 4mm x 30" Tubing	1/2" PVC-4 QC, 16" Stake x 4mm x 48" Tubing
PART NO.	13090-21630	13090-22230	13090-21648

# 1/2" PVC-5 QC STAKE & TUBE ASSEMBLIES

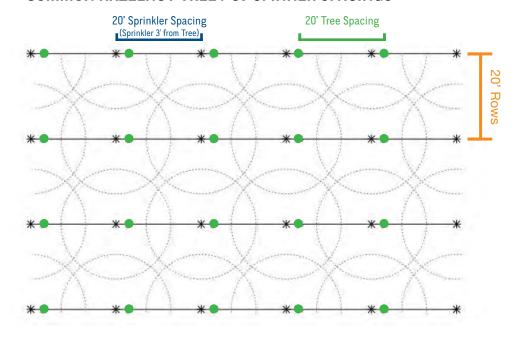
DESCRIPTION	1/2" PVC-5 QC,	1/2" PVC-5 QC,	1/2" PVC-5 QC,
	16" Stake x 5mm x	22" Stake x 5mm x	22" Stake x 5mm x
	30" Tubing	30" Tubing	48" Tubing
PART NO.	13089-21630	13089-22230	13089-22248

# S7 SPINNER W/ BLUE PLATE - FLOW & RADIUS (U.S. Units)

US UNITS							P	RESSUI	RE IN P	SI						
	1	5	2	0	2	.5	30		35		40		45		50	
*NOZZLE	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)	GPH	R (FT.)						
<b>*40</b> Blue	9.4	11	11	12	12	13	13	14	15	14	16	14	17	14	17	13
<b>*45</b> Purple	12	12	14	13	16	14	17	14	19	14	20	14	21	15	22	14
<b>*50</b> Green	15	12	17	14	19	15	21	15	22	15	24	15	26	15	27	14
*55 Yellow	18	13	20	14	23	15	25	15	27	15	29	15	31	16	33	15
● <b>*60</b> Light Red	21	13	25	14	28	15	30	16	33	16	35	16	37	16	39	16
<b>*65</b> Gray	27	13	32	14	36	15	39	16	42	16	45	16	48	16	51	16
<b>*70</b> White	32	13	37	15	41	15	46	16	49	16	53	16	56	16	59	16
● *78 Dark Blue	41	13	47	15	53	15	58	16	63	16	67	16	71	16	75	15
<b>8.5</b> Orange 7FC*	*	11	*	11	*	11	*	10	*	10	*	9	*	9	*	9
● 11 Blue 7FC*	*	11	*	12	*	12	*	12	*	12	*	12	*	12	*	11
■ 14 Purple 7FC*	*	12	*	14	*	14	*	14	*	14	*	13	*	13	*	12
18 Yellow 7FC*	*	13	*	14	*	15	*	15	*	15	*	14	*	14	*	13
<b>24</b> Red 7FC*	*	13	*	14	*	15	*	15	*	15	*	15	*	15	*	14

<sup>\*</sup>Call Factory for specific flow rate information.

# **COMMON HAZELNUT TREE / S7 SPINNER SPACINGS**



# Example:

Approximate wetted diameter equals 95% coverage diameter.

8.5 7FC = 15.5 gpm/acre 0.03"/hr application rate

11 7FC = 20 gpm/acre 0.04"/hr application rate

