

CRUZAN IRRIGATION

SEPTEMBER 22, 2025

WISH-119611

CUSTOMER : SCOTT MAHAFFEY

VALLEY 8000 - 108
9 TOWER - 1297.4 FT
SYSTEM 750 GPM @ 50 PSI

LEGAL : PIVOT OLD 1/4
P.O. NO. : 5926

SENNINGER UP3 I-WOB2
SENNINGER 10 PSI REGULATORS
NELSON SR-100 .70 TB
ELEVATION 25 FT UP, 20 FT DOWN

11049 HIGHWAY 491
CORTEZ, COLORADO 81321
(970)565-9409

WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATIC CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, POOR QUALITY OF WATER WITH ABRASIVES, CORROSIVES, AND/OR SOLIDS WHICH CAN CAUSE PLUGGING AND JAMMING, AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE WESTERN IRRIGATION SUPPLY HOUSE, INC., MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

| | | | | | | | |
|--|--------|----------------------|---------|-------------|--------|-----------|------------|
| VALLEY 8000 - 108 | | SEPTEMBER 22, 2025 | | WISH-119611 | | | |
| <u>DEALER</u> | | <u>IRRIGATOR</u> | | | | | |
| CRUZAN IRRIGATION | | SCOTT MAHAFFEY | | | | | |
| 11049 HIGHWAY 491 | | PIVOT OLD 1/4 | | | | | |
| CORTEZ, COLORADO 81321 | | 5926 | | | | | |
| TOTAL TARGET GPM | 750.00 | FRICTION FACTOR USED | 140 | SPAN # | LENGTH | PIPE I.D. | # OF HEADS |
| TOP OF PIVOT PRESSURE | 50.00 | TOTAL LENGTH | 1297.40 | 1 | 140.78 | 6.415 | 7 |
| ENDGUN TARGET GPM | 88.19 | NUMBER OF TOWERS | 9 | 2 | 140.04 | 6.415 | 8 |
| NUMBER OF OUTLETS | 148 | NUMBER OF SPRINKLERS | 131 | 3 | 140.04 | 6.415 | 16 |
| | | | | 4 | 140.04 | 6.415 | 16 |
| SENNINGER UP3 I-WOB2 - LOW ANGLE 9 GROOVE BLUE PADS | | | | 5 | 140.04 | 6.415 | 16 |
| SENNINGER PSR-2 10 PSI SERIES REGULATORS | | | | 6 | 140.04 | 6.415 | 16 |
| DROPS AVERAGE 9.5 FT OF .75 I.D. FLEXIBLE HOSE - SENNINGER UNIMAG WEIGHT | | | | 7 | 140.04 | 6.415 | 16 |
| ELEVATION IS 25 FT UP AND 20 FT DOWN | | | | 8 | 140.04 | 6.415 | 16 |
| | | | | 9 | 139.78 | 6.415 | 16 |
| | | | | OH | 18.28 | 6.415 | 2 |
| | | | | | 18.28 | 3.79 | 2 |

CAUTIONS AND WARNINGS

1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.

2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.

| OUTLET NO. | LAST OUTLET | DISTANCE TO PIVOT | GPM NEED | GPM DEL. | PIPE PSI | NOZZLE PSI | SPRINKLER LABEL AND NOZZLE SIZE | | | | | | SPRK NO. | REG SIZE | PLUG NO. | DROP LENGTH |
|------------|-------------|-------------------|----------|----------|----------|------------|---------------------------------|---|---|---|---|---|----------|----------|----------|-------------|
| 1 | | 5.40 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| 2 | | 14.40 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | |
| 3 | 23.40 | 23.40 | 0.41 | 0.85 | 49.38 | 11.40 | I-WOB2 UP3 6 GOLD | | | | | | 1 | SPSR2-10 | | 108 |
| 4 | | 32.40 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | |
| 5 | 18.00 | 41.40 | 0.56 | 0.85 | 48.91 | 11.40 | I-WOB2 UP3 6 GOLD | | | | | | 2 | SPSR2-10 | | 114 |
| 6 | | 49.92 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | |
| 7 | 16.94 | 58.34 | 0.76 | 0.85 | 48.57 | 11.40 | I-WOB2 UP3 6 GOLD | | | | | | 3 | SPSR2-10 | | 120 |
| 8 | | 66.76 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | |
| 9 | 16.46 | 74.80 | 0.98 | 1.00 | 48.36 | 11.40 | I-WOB2 UP3 6.5 GOLD | | | | | | 4 | SPSR2-10 | | 120 |
| 10 | | 83.22 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | |
| 11 | 16.84 | 91.64 | 1.24 | 1.16 | 48.24 | 11.40 | I-WOB2 UP3 7 LIME | | | | | | 5 | SPSR2-10 | | 114 |
| 12 | | 100.16 | - | - | - | - | - | - | - | - | - | - | - | - | 7 | |
| 13 | 17.52 | 109.16 | 1.52 | 1.53 | 48.24 | 11.40 | I-WOB2 UP3 8 LAVENDER | | | | | | 6 | SPSR2-10 | | 108 |
| 14 | | 118.16 | - | - | - | - | - | - | - | - | - | - | - | - | 8 | |
| 15 | 18.00 | 127.16 | 1.81 | 1.73 | 48.36 | 11.40 | I-WOB2 UP3 8.5 LAVENDER | | | | | | 7 | SPSR2-10 | | 102 |
| 16 | | 136.16 | - | - | - | - | - | - | - | - | - | - | - | - | 9 | |
| TOWER 1 | 140.78 | 140.78 | | | | | | | | | | | | | | |
| 17 | 18.28 | 145.44 | 2.07 | 2.16 | 48.28 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 8 | SPSR2-10 | | 96 |
| 18 | | 154.44 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | |
| 19 | 18.00 | 163.44 | 2.31 | 2.39 | 47.73 | 11.36 | I-WOB2 UP3 10 TURQUOISE | | | | | | 9 | SPSR2-10 | | 108 |
| 20 | | 172.44 | - | - | - | - | - | - | - | - | - | - | - | - | 11 | |
| 21 | 18.00 | 181.44 | 2.49 | 2.39 | 47.26 | 11.36 | I-WOB2 UP3 10 TURQUOISE | | | | | | 10 | SPSR2-10 | | 114 |
| 22 | | 189.96 | - | - | - | - | - | - | - | - | - | - | - | - | 12 | |
| 23 | 16.94 | 198.38 | 2.60 | 2.63 | 46.94 | 11.34 | I-WOB2 UP3 10.5 TURQUOISE | | | | | | 11 | SPSR2-10 | | 120 |
| 24 | | 206.80 | - | - | - | - | - | - | - | - | - | - | - | - | 13 | |
| 25 | 16.46 | 214.84 | 2.81 | 2.89 | 46.73 | 11.31 | I-WOB2 UP3 11 YELLOW | | | | | | 12 | SPSR2-10 | | 120 |
| 26 | | 223.26 | - | - | - | - | - | - | - | - | - | - | - | - | 14 | |
| 27 | 16.84 | 231.68 | 3.13 | 3.15 | 46.62 | 11.28 | I-WOB2 UP3 11.5 YELLOW | | | | | | 13 | SPSR2-10 | | 114 |
| 28 | | 240.20 | - | - | - | - | - | - | - | - | - | - | - | - | 15 | |
| 29 | 17.52 | 249.20 | 3.48 | 3.44 | 46.63 | 11.26 | I-WOB2 UP3 12 RED | | | | | | 14 | SPSR2-10 | | 108 |
| 30 | | 258.20 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | |
| 31 | 18.00 | 267.20 | 3.81 | 3.73 | 46.76 | 11.23 | I-WOB2 UP3 12.5 RED | | | | | | 15 | SPSR2-10 | | 102 |
| 32 | | 276.20 | - | - | - | - | - | - | - | - | - | - | - | - | 17 | |
| TOWER 2 | 140.04 | 280.82 | | | | | | | | | | | | | | |
| 33 | 18.28 | 285.48 | 3.03 | 3.15 | 46.69 | 11.28 | I-WOB2 UP3 11.5 YELLOW | | | | | | 16 | SPSR2-10 | | 96 |
| 34 | 9.00 | 294.48 | 2.08 | 2.16 | 46.43 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 17 | SPSR2-10 | | 102 |
| 35 | 9.00 | 303.48 | 2.14 | 2.16 | 46.15 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 18 | SPSR2-10 | | 108 |
| 36 | 9.00 | 312.48 | 2.21 | 2.16 | 45.91 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 19 | SPSR2-10 | | 108 |
| 37 | 9.00 | 321.48 | 2.21 | 2.16 | 45.70 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 20 | SPSR2-10 | | 114 |
| 38 | 8.52 | 330.00 | 2.19 | 2.16 | 45.53 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 21 | SPSR2-10 | | 114 |
| 39 | 8.42 | 338.42 | 2.24 | 2.16 | 45.39 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 22 | SPSR2-10 | | 120 |
| 40 | 8.42 | 346.84 | 2.24 | 2.16 | 45.28 | 11.38 | I-WOB2 UP3 9.5 GREY | | | | | | 23 | SPSR2-10 | | 120 |
| 41 | 8.04 | 354.88 | 2.30 | 2.39 | 45.19 | 11.36 | I-WOB2 UP3 10 TURQUOISE | | | | | | 24 | SPSR2-10 | | 120 |
| 42 | 8.42 | 363.30 | 2.40 | 2.39 | 45.13 | 11.36 | I-WOB2 UP3 10 TURQUOISE | | | | | | 25 | SPSR2-10 | | 120 |
| 43 | 8.42 | 371.72 | 2.47 | 2.39 | 45.10 | 11.36 | I-WOB2 UP3 10 TURQUOISE | | | | | | 26 | SPSR2-10 | | 114 |
| 44 | 8.52 | 380.24 | 2.62 | 2.63 | 45.10 | 11.34 | I-WOB2 UP3 10.5 TURQUOISE | | | | | | 27 | SPSR2-10 | | 114 |
| 45 | 9.00 | 389.24 | 2.75 | 2.63 | 45.13 | 11.34 | I-WOB2 UP3 10.5 TURQUOISE | | | | | | 28 | SPSR2-10 | | 108 |
| 46 | 9.00 | 398.24 | 2.82 | 2.89 | 45.18 | 11.31 | I-WOB2 UP3 11 YELLOW | | | | | | 29 | SPSR2-10 | | 108 |

| OUTLET NO. | LAST OUTLET | DISTANCE TO PIVOT | GPM NEED | GPM DEL. | PIPE PSI | NOZZLE PSI | SPRINKLER LABEL AND NOZZLE SIZE | | | | SPRK NO. | REG SIZE | PLUG NO. | DROP LENGTH |
|------------|-------------|-------------------|----------|----------|----------|------------|---------------------------------|-----|------|----------|----------|----------|----------|-------------|
| 47 | 9.00 | 407.24 | 2.88 | 2.89 | 45.27 | 11.31 | I-WOB2 | UP3 | 11 | YELLOW | 30 | SPSR2-10 | | 102 |
| 48 | 9.00 | 416.24 | 2.99 | 2.89 | 45.32 | 11.31 | I-WOB2 | UP3 | 11 | YELLOW | 31 | SPSR2-10 | | 96 |
| TOWER 3 | 140.04 | 420.86 | | | | | | | | | | | | |
| 49 | 9.28 | 425.52 | 3.06 | 3.15 | 45.23 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 32 | SPSR2-10 | | 96 |
| 50 | 9.00 | 434.52 | 3.07 | 3.15 | 44.97 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 33 | SPSR2-10 | | 102 |
| 51 | 9.00 | 443.52 | 3.14 | 3.15 | 44.71 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 34 | SPSR2-10 | | 108 |
| 52 | 9.00 | 452.52 | 3.20 | 3.15 | 44.48 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 35 | SPSR2-10 | | 108 |
| 53 | 9.00 | 461.52 | 3.18 | 3.15 | 44.28 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 36 | SPSR2-10 | | 114 |
| 54 | 8.52 | 470.04 | 3.13 | 3.15 | 44.12 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 37 | SPSR2-10 | | 114 |
| 55 | 8.42 | 478.46 | 3.16 | 3.15 | 43.98 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 38 | SPSR2-10 | | 120 |
| 56 | 8.42 | 486.88 | 3.15 | 3.15 | 43.88 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 39 | SPSR2-10 | | 120 |
| 57 | 8.04 | 494.92 | 3.20 | 3.15 | 43.81 | 11.28 | I-WOB2 | UP3 | 11.5 | YELLOW | 40 | SPSR2-10 | | 120 |
| 58 | 8.42 | 503.34 | 3.33 | 3.44 | 43.76 | 11.26 | I-WOB2 | UP3 | 12 | RED | 41 | SPSR2-10 | | 120 |
| 59 | 8.42 | 511.76 | 3.40 | 3.44 | 43.74 | 11.26 | I-WOB2 | UP3 | 12 | RED | 42 | SPSR2-10 | | 114 |
| 60 | 8.52 | 520.28 | 3.58 | 3.44 | 43.75 | 11.26 | I-WOB2 | UP3 | 12 | RED | 43 | SPSR2-10 | | 114 |
| 61 | 9.00 | 529.28 | 3.74 | 3.73 | 43.79 | 11.23 | I-WOB2 | UP3 | 12.5 | RED | 44 | SPSR2-10 | | 108 |
| 62 | 9.00 | 538.28 | 3.81 | 3.73 | 43.86 | 11.23 | I-WOB2 | UP3 | 12.5 | RED | 45 | SPSR2-10 | | 108 |
| 63 | 9.00 | 547.28 | 3.87 | 3.73 | 43.96 | 11.23 | I-WOB2 | UP3 | 12.5 | RED | 46 | SPSR2-10 | | 102 |
| 64 | 9.00 | 556.28 | 4.00 | 4.03 | 44.02 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 47 | SPSR2-10 | | 96 |
| TOWER 4 | 140.04 | 560.90 | | | | | | | | | | | | |
| 65 | 9.28 | 565.56 | 4.06 | 4.03 | 43.94 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 48 | SPSR2-10 | | 96 |
| 66 | 9.00 | 574.56 | 4.06 | 4.03 | 43.69 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 49 | SPSR2-10 | | 102 |
| 67 | 9.00 | 583.56 | 4.13 | 4.03 | 43.44 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 50 | SPSR2-10 | | 108 |
| 68 | 9.00 | 592.56 | 4.19 | 4.34 | 43.23 | 11.17 | I-WOB2 | UP3 | 13.5 | WHITE | 51 | SPSR2-10 | | 108 |
| 69 | 9.00 | 601.56 | 4.14 | 4.03 | 43.04 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 52 | SPSR2-10 | | 114 |
| 70 | 8.52 | 610.08 | 4.06 | 4.03 | 42.89 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 53 | SPSR2-10 | | 114 |
| 71 | 8.42 | 618.50 | 4.09 | 4.03 | 42.77 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 54 | SPSR2-10 | | 120 |
| 72 | 8.42 | 626.92 | 4.06 | 4.03 | 42.68 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 55 | SPSR2-10 | | 120 |
| 73 | 8.04 | 634.96 | 4.11 | 4.03 | 42.62 | 11.20 | I-WOB2 | UP3 | 13 | WHITE | 56 | SPSR2-10 | | 120 |
| 74 | 8.42 | 643.38 | 4.26 | 4.34 | 42.59 | 11.17 | I-WOB2 | UP3 | 13.5 | WHITE | 57 | SPSR2-10 | | 120 |
| 75 | 8.42 | 651.80 | 4.34 | 4.34 | 42.58 | 11.17 | I-WOB2 | UP3 | 13.5 | WHITE | 58 | SPSR2-10 | | 114 |
| 76 | 8.52 | 660.32 | 4.55 | 4.66 | 42.60 | 11.13 | I-WOB2 | UP3 | 14 | BLUE | 59 | SPSR2-10 | | 114 |
| 77 | 9.00 | 669.32 | 4.73 | 4.66 | 42.65 | 11.13 | I-WOB2 | UP3 | 14 | BLUE | 60 | SPSR2-10 | | 108 |
| 78 | 9.00 | 678.32 | 4.80 | 4.66 | 42.74 | 11.13 | I-WOB2 | UP3 | 14 | BLUE | 61 | SPSR2-10 | | 108 |
| 79 | 9.00 | 687.32 | 4.86 | 4.99 | 42.86 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 62 | SPSR2-10 | | 102 |
| 80 | 9.00 | 696.32 | 5.00 | 4.99 | 42.93 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 63 | SPSR2-10 | | 96 |
| TOWER 5 | 140.04 | 700.94 | | | | | | | | | | | | |
| 81 | 9.28 | 705.60 | 5.07 | 4.99 | 42.86 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 64 | SPSR2-10 | | 96 |
| 82 | 9.00 | 714.60 | 5.06 | 4.99 | 42.64 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 65 | SPSR2-10 | | 102 |
| 83 | 9.00 | 723.60 | 5.12 | 4.99 | 42.40 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 66 | SPSR2-10 | | 108 |
| 84 | 9.00 | 732.60 | 5.19 | 5.34 | 42.20 | 11.04 | I-WOB2 | UP3 | 15 | DK BROWN | 67 | SPSR2-10 | | 108 |
| 85 | 9.00 | 741.60 | 5.11 | 4.99 | 42.03 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 68 | SPSR2-10 | | 114 |
| 86 | 8.52 | 750.12 | 5.00 | 4.99 | 41.89 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 69 | SPSR2-10 | | 114 |
| 87 | 8.42 | 758.54 | 5.02 | 4.99 | 41.79 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 70 | SPSR2-10 | | 120 |
| 88 | 8.42 | 766.96 | 4.96 | 4.99 | 41.71 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 71 | SPSR2-10 | | 120 |
| 89 | 8.04 | 775.00 | 5.02 | 4.99 | 41.67 | 11.10 | I-WOB2 | UP3 | 14.5 | BLUE | 72 | SPSR2-10 | | 120 |
| 90 | 8.42 | 783.42 | 5.19 | 5.34 | 41.65 | 11.04 | I-WOB2 | UP3 | 15 | DK BROWN | 73 | SPSR2-10 | | 120 |
| 91 | 8.42 | 791.84 | 5.27 | 5.34 | 41.66 | 11.04 | I-WOB2 | UP3 | 15 | DK BROWN | 74 | SPSR2-10 | | 114 |

| OUTLET NO. | LAST OUTLET | DISTANCE TO PIVOT | GPM NEED | GPM DEL. | PIPE PSI | NOZZLE PSI | SPRINKLER LABEL AND NOZZLE SIZE | | | | | SPRK NO. | REG SIZE | PLUG NO. | DROP LENGTH |
|------------|-------------|-------------------|----------|----------|----------|------------|---------------------------------|-----|------|--------|-------|----------|----------|----------|-------------|
| 92 | 8.52 | 800.36 | 5.51 | 5.68 | 41.69 | 10.98 | I-WOB2 | UP3 | 15.5 | DK | BROWN | 75 | SPSR2-10 | | 114 |
| 93 | 9.00 | 809.36 | 5.72 | 5.68 | 41.76 | 10.98 | I-WOB2 | UP3 | 15.5 | DK | BROWN | 76 | SPSR2-10 | | 108 |
| 94 | 9.00 | 818.36 | 5.79 | 5.68 | 41.86 | 10.98 | I-WOB2 | UP3 | 15.5 | DK | BROWN | 77 | SPSR2-10 | | 108 |
| 95 | 9.00 | 827.36 | 5.85 | 5.68 | 42.00 | 10.98 | I-WOB2 | UP3 | 15.5 | DK | BROWN | 78 | SPSR2-10 | | 102 |
| 96 | 9.00 | 836.36 | 6.01 | 6.04 | 42.08 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 79 | SPSR2-10 | | 96 |
| TOWER 6 | 140.04 | 840.98 | | | | | | | | | | | | | |
| 97 | 9.28 | 845.64 | 6.08 | 6.04 | 42.04 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 80 | SPSR2-10 | | 96 |
| 98 | 9.00 | 854.64 | 6.05 | 6.04 | 41.83 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 81 | SPSR2-10 | | 102 |
| 99 | 9.00 | 863.64 | 6.11 | 6.04 | 41.61 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 82 | SPSR2-10 | | 108 |
| 100 | 9.00 | 872.64 | 6.18 | 6.04 | 41.42 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 83 | SPSR2-10 | | 108 |
| 101 | 9.00 | 881.64 | 6.08 | 6.04 | 41.26 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 84 | SPSR2-10 | | 114 |
| 102 | 8.52 | 890.16 | 5.93 | 6.04 | 41.15 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 85 | SPSR2-10 | | 114 |
| 103 | 8.42 | 898.58 | 5.95 | 6.04 | 41.06 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 86 | SPSR2-10 | | 120 |
| 104 | 8.42 | 907.00 | 5.87 | 6.04 | 41.00 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 87 | SPSR2-10 | | 120 |
| 105 | 8.04 | 915.04 | 5.92 | 6.04 | 40.97 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 88 | SPSR2-10 | | 120 |
| 106 | 8.42 | 923.46 | 6.11 | 6.04 | 40.96 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 89 | SPSR2-10 | | 120 |
| 107 | 8.42 | 931.88 | 6.21 | 6.04 | 40.99 | 10.91 | I-WOB2 | UP3 | 16 | ORANGE | | 90 | SPSR2-10 | | 114 |
| 108 | 8.52 | 940.40 | 6.48 | 6.41 | 41.04 | 10.85 | I-WOB2 | UP3 | 16.5 | ORANGE | | 91 | SPSR2-10 | | 114 |
| 109 | 9.00 | 949.40 | 6.72 | 6.78 | 41.12 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 92 | SPSR2-10 | | 108 |
| 110 | 9.00 | 958.40 | 6.79 | 6.78 | 41.24 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 93 | SPSR2-10 | | 108 |
| 111 | 9.00 | 967.40 | 6.85 | 6.78 | 41.39 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 94 | SPSR2-10 | | 102 |
| 112 | 9.00 | 976.40 | 7.02 | 7.16 | 41.49 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 95 | SPSR2-10 | | 96 |
| TOWER 7 | 140.04 | 981.02 | | | | | | | | | | | | | |
| 113 | 9.28 | 985.68 | 7.09 | 7.16 | 41.46 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 96 | SPSR2-10 | | 96 |
| 114 | 9.00 | 994.68 | 7.04 | 7.16 | 41.27 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 97 | SPSR2-10 | | 102 |
| 115 | 9.00 | 1003.68 | 7.10 | 7.16 | 41.07 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 98 | SPSR2-10 | | 108 |
| 116 | 9.00 | 1012.68 | 7.16 | 7.16 | 40.89 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 99 | SPSR2-10 | | 108 |
| 117 | 9.00 | 1021.68 | 7.03 | 7.16 | 40.76 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 100 | SPSR2-10 | | 114 |
| 118 | 8.52 | 1030.20 | 6.85 | 6.78 | 40.65 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 101 | SPSR2-10 | | 114 |
| 119 | 8.42 | 1038.62 | 6.87 | 6.78 | 40.58 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 102 | SPSR2-10 | | 120 |
| 120 | 8.42 | 1047.04 | 6.77 | 6.78 | 40.54 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 103 | SPSR2-10 | | 120 |
| 121 | 8.04 | 1055.08 | 6.82 | 6.78 | 40.52 | 10.78 | I-WOB2 | UP3 | 17 | DK | GREEN | 104 | SPSR2-10 | | 120 |
| 122 | 8.42 | 1063.50 | 7.04 | 7.16 | 40.53 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 105 | SPSR2-10 | | 120 |
| 123 | 8.42 | 1071.92 | 7.13 | 7.16 | 40.57 | 10.71 | I-WOB2 | UP3 | 17.5 | DK | GREEN | 106 | SPSR2-10 | | 114 |
| 124 | 8.52 | 1080.44 | 7.44 | 7.55 | 40.63 | 10.64 | I-WOB2 | UP3 | 18 | PURPLE | | 107 | SPSR2-10 | | 114 |
| 125 | 9.00 | 1089.44 | 7.70 | 7.55 | 40.73 | 10.64 | I-WOB2 | UP3 | 18 | PURPLE | | 108 | SPSR2-10 | | 108 |
| 126 | 9.00 | 1098.44 | 7.77 | 7.95 | 40.86 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 109 | SPSR2-10 | | 108 |
| 127 | 9.00 | 1107.44 | 7.82 | 7.95 | 41.03 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 110 | SPSR2-10 | | 102 |
| 128 | 9.00 | 1116.44 | 8.00 | 7.95 | 41.15 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 111 | SPSR2-10 | | 96 |
| TOWER 8 | 140.04 | 1121.06 | | | | | | | | | | | | | |
| 129 | 9.28 | 1125.72 | 8.07 | 7.95 | 41.13 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 112 | SPSR2-10 | | 96 |
| 130 | 9.00 | 1134.72 | 8.02 | 7.95 | 40.95 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 113 | SPSR2-10 | | 102 |
| 131 | 9.00 | 1143.72 | 8.09 | 7.95 | 40.76 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 114 | SPSR2-10 | | 108 |
| 132 | 9.00 | 1152.72 | 8.16 | 8.35 | 40.61 | 10.49 | I-WOB2 | UP3 | 19 | BLACK | | 115 | SPSR2-10 | | 108 |
| 133 | 9.00 | 1161.72 | 7.99 | 7.95 | 40.48 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 116 | SPSR2-10 | | 114 |
| 134 | 8.52 | 1170.24 | 7.79 | 7.95 | 40.39 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 117 | SPSR2-10 | | 114 |
| 135 | 8.42 | 1178.66 | 7.78 | 7.95 | 40.33 | 10.57 | I-WOB2 | UP3 | 18.5 | PURPLE | | 118 | SPSR2-10 | | 120 |
| 136 | 8.42 | 1187.08 | 7.65 | 7.55 | 40.30 | 10.64 | I-WOB2 | UP3 | 18 | PURPLE | | 119 | SPSR2-10 | | 120 |

| OUTLET NO. | LAST OUTLET | DISTANCE TO PIVOT | GPM NEED | GPM DEL. | PIPE PSI | NOZZLE PSI | SPRINKLER LABEL AND NOZZLE SIZE | | | | SPRK NO. | REG SIZE | PLUG NO. | DROP LENGTH |
|------------|-------------|-------------------|-------------------------------------|----------|----------|------------|---------------------------------|--|--|--|----------|----------|----------|-------------|
| 137 | 8.04 | 1195.12 | 7.71 | 7.55 | 40.29 | 10.64 | I-WOB2 UP3 18 PURPLE | | | | 120 | SPSR2-10 | | 120 |
| 138 | 8.42 | 1203.54 | 7.96 | 7.95 | 40.32 | 10.57 | I-WOB2 UP3 18.5 PURPLE | | | | 121 | SPSR2-10 | | 120 |
| 139 | 8.42 | 1211.96 | 8.06 | 7.95 | 40.37 | 10.57 | I-WOB2 UP3 18.5 PURPLE | | | | 122 | SPSR2-10 | | 114 |
| 140 | 8.52 | 1220.48 | 8.41 | 8.35 | 40.44 | 10.50 | I-WOB2 UP3 19 BLACK | | | | 123 | SPSR2-10 | | 114 |
| 141 | 9.00 | 1229.48 | 8.71 | 8.76 | 40.56 | 10.42 | I-WOB2 UP3 19.5 BLACK | | | | 124 | SPSR2-10 | | 108 |
| 142 | 9.00 | 1238.48 | 8.77 | 8.76 | 40.70 | 10.42 | I-WOB2 UP3 19.5 BLACK | | | | 125 | SPSR2-10 | | 108 |
| 143 | 9.00 | 1247.48 | 8.83 | 8.76 | 40.88 | 10.42 | I-WOB2 UP3 19.5 BLACK | | | | 126 | SPSR2-10 | | 102 |
| 144 | 9.00 | 1256.48 | 8.88 | 8.76 | 41.01 | 10.42 | I-WOB2 UP3 19.5 BLACK | | | | 127 | SPSR2-10 | | 96 |
| TOWER 9 | 139.78 | 1260.84 | | | | | | | | | | | | |
| 145 | 8.93 | 1265.41 | 9.04 | 9.17 | 41.00 | 10.35 | I-WOB2 UP3 20 DK TURQUOISE | | | | 128 | SPSR2-10 | | 96 |
| 146 | 9.14 | 1274.55 | 9.16 | 9.18 | 41.00 | 10.35 | I-WOB2 UP3 20 DK TURQUOISE | | | | 129 | SPSR2-10 | | 96 |
| | | | PIPE ID CHANGES FROM 6.415 TO 3.790 | | | | | | | | | | | |
| 147 | 9.14 | 1283.69 | 9.22 | 9.18 | 40.96 | 10.35 | I-WOB2 UP3 20 DK TURQUOISE | | | | 130 | SPSR2-10 | | 96 |
| 148 | 9.14 | 1292.83 | 9.29 | 9.18 | 40.93 | 10.35 | I-WOB2 UP3 20 DK TURQUOISE | | | | 131 | SPSR2-10 | | 96 |
| OVERHANG | 36.56 | 1297.40 | | 88.71 | ENDGUN | (1) | NELSON SR-100 .70 TB | | | | | | | |

THERE IS NO BOOSTER PUMP

FRICTION LOSS THROUGH ENDGUN VALVE IS 2.05 PSI - ENDGUN PRESSURE IS 38.88 PSI

TOTAL GPM = 750.36

GPA = 5.45

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI

WITH GRADUATED ELEVATION OF 25.00 FT THE INLET PRESSURE IS 32.30 PSI FOR SPRINKLER 131

THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

| TOWER NUMBER | ACRES UNDER SPAN | GPM NEED | ACTUAL GPM | PERCENT DEVIATION | GPM PER ACRE | AVERAGE IN. PER HR DELIVERED UNDER SPAN | AVERAGE IN. DELIVERED FOR REVOLUTION TIME | | |
|--------------|------------------|----------|------------|-------------------|--------------|---|---|-------|-------|
| | | | | | | | 36 HR | 48 HR | 60 HR |
| 1 | 1.43 | 7.79 | 8.57 | 10% | 5.99 | 0.013 | 0.48 | 0.64 | 0.79 |
| 2 | 4.26 | 23.21 | 22.89 | -1% | 5.38 | 0.012 | 0.43 | 0.57 | 0.71 |
| 3 | 7.09 | 38.63 | 38.70 | 0% | 5.46 | 0.012 | 0.43 | 0.58 | 0.72 |
| 4 | 9.92 | 54.06 | 53.86 | 0% | 5.43 | 0.012 | 0.43 | 0.58 | 0.72 |
| 5 | 12.74 | 69.48 | 69.26 | 0% | 5.43 | 0.012 | 0.43 | 0.58 | 0.72 |
| 6 | 15.57 | 84.90 | 84.72 | 0% | 5.44 | 0.012 | 0.43 | 0.58 | 0.72 |
| 7 | 18.40 | 100.32 | 100.32 | 0% | 5.45 | 0.012 | 0.43 | 0.58 | 0.72 |
| 8 | 21.23 | 115.74 | 116.19 | 0% | 5.47 | 0.012 | 0.44 | 0.58 | 0.73 |
| 9 | 24.01 | 130.90 | 130.43 | 0% | 5.43 | 0.012 | 0.43 | 0.58 | 0.72 |
| OVERHANG | 6.75 | 36.77 | 36.71 | 0% | 5.44 | 0.012 | 0.43 | 0.58 | 0.72 |
| ENDGUN | 15.99 | 88.19 | 88.71 | 2% | 5.55 | | | | |
| TOTAL | 137.39 | 750.00 | 750.36 | | 5.46 | | | | |

SUMMARY OF SPRINKLERS

| | |
|----|----------------------------|
| 3 | I-WOB2 UP3 6 GOLD |
| 1 | I-WOB2 UP3 6.5 GOLD |
| 1 | I-WOB2 UP3 7 LIME |
| 1 | I-WOB2 UP3 8 LAVENDER |
| 1 | I-WOB2 UP3 8.5 LAVENDER |
| 8 | I-WOB2 UP3 9.5 GREY |
| 5 | I-WOB2 UP3 10 TURQUOISE |
| 3 | I-WOB2 UP3 10.5 TURQUOISE |
| 4 | I-WOB2 UP3 11 YELLOW |
| 11 | I-WOB2 UP3 11.5 YELLOW |
| 4 | I-WOB2 UP3 12 RED |
| 4 | I-WOB2 UP3 12.5 RED |
| 9 | I-WOB2 UP3 13 WHITE |
| 3 | I-WOB2 UP3 13.5 WHITE |
| 3 | I-WOB2 UP3 14 BLUE |
| 10 | I-WOB2 UP3 14.5 BLUE |
| 3 | I-WOB2 UP3 15 DK BROWN |
| 4 | I-WOB2 UP3 15.5 DK BROWN |
| 12 | I-WOB2 UP3 16 ORANGE |
| 1 | I-WOB2 UP3 16.5 ORANGE |
| 7 | I-WOB2 UP3 17 DK GREEN |
| 8 | I-WOB2 UP3 17.5 DK GREEN |
| 4 | I-WOB2 UP3 18 PURPLE |
| 11 | I-WOB2 UP3 18.5 PURPLE |
| 2 | I-WOB2 UP3 19 BLACK |
| 4 | I-WOB2 UP3 19.5 BLACK |
| 4 | I-WOB2 UP3 20 DK TURQUOISE |

17 PLUGS**SUMMARY OF DROPS**

| | |
|----|-------------|
| 19 | 96 IN DROP |
| 16 | 102 IN DROP |
| 32 | 108 IN DROP |
| 32 | 114 IN DROP |
| 32 | 120 IN DROP |

TOTAL OF 131 DROPS
LENGTH OF HOSE: 1200.0 FT.**SUMMARY OF REGULATORS**

131 Senn PSR2 10 psi

TOTAL OF 131 REGULATORS

NOZZLE POSITION CHART

| | |
|----------------------------|--|
| I-WOB2 UP3 6 GOLD | 1, 2, 3 |
| I-WOB2 UP3 6.5 GOLD | 4 |
| I-WOB2 UP3 7 LIME | 5 |
| I-WOB2 UP3 8 LAVENDER | 6 |
| I-WOB2 UP3 8.5 LAVENDER | 7 |
| I-WOB2 UP3 9.5 GREY | 8, 17, 18, 19, 20, 21, 22, 23 |
| I-WOB2 UP3 10 TURQUOISE | 9, 10, 24, 25, 26 |
| I-WOB2 UP3 10.5 TURQUOISE | 11, 27, 28 |
| I-WOB2 UP3 11 YELLOW | 12, 29, 30, 31 |
| I-WOB2 UP3 11.5 YELLOW | 13, 16, 32, 33, 34, 35, 36, 37, 38, 39, 40 |
| I-WOB2 UP3 12 RED | 14, 41, 42, 43 |
| I-WOB2 UP3 12.5 RED | 15, 44, 45, 46 |
| I-WOB2 UP3 13 WHITE | 47, 48, 49, 50, 52, 53, 54, 55, 56 |
| I-WOB2 UP3 13.5 WHITE | 51, 57, 58 |
| I-WOB2 UP3 14 BLUE | 59, 60, 61 |
| I-WOB2 UP3 14.5 BLUE | 62, 63, 64, 65, 66, 68, 69, 70, 71, 72 |
| I-WOB2 UP3 15 DK BROWN | 67, 73, 74 |
| I-WOB2 UP3 15.5 DK BROWN | 75, 76, 77, 78 |
| I-WOB2 UP3 16 ORANGE | 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90 |
| I-WOB2 UP3 16.5 ORANGE | 91 |
| I-WOB2 UP3 17 DK GREEN | 92, 93, 94, 101,102,103,104 |
| I-WOB2 UP3 17.5 DK GREEN | 95, 96, 97, 98, 99, 100,105,106 |
| I-WOB2 UP3 18 PURPLE | 107,108,119,120 |
| I-WOB2 UP3 18.5 PURPLE | 109,110,111,112,113,114,116,117,118,121,122 |
| I-WOB2 UP3 19 BLACK | 115,123 |
| I-WOB2 UP3 19.5 BLACK | 124,125,126,127 |
| I-WOB2 UP3 20 DK TURQUOISE | 128,129,130,131 |

CRUZAN IRRIGATION
11049 HIGHWAY 491
CORTEZ, COLORADO 81321

SEPTEMBER 22, 2025
WISH-119611
SCOTT MAHAFFEY
PIVOT OLD 1/4
750 GPM @ 50 PSI

VALLEY 8000 - 108
SENNINGER UP3 I-WOB2
SENNINGER 10 PSI REGULATORS
.75 I.D. FLEXIBLE HOSE
NELSON SR-100 .70 TB

Rotation time at 100% = 14.06 Hours Or 844 minutes

Installation Chart

| Out # | Drop Len | Sprk # | Noz Size | Reg | Out # | Drop Len | Sprk # | Noz Size | Reg | Out # | Drop Len | Sprk # | Noz Size | Reg |
|---------|----------|--------|----------|--------|---------|----------|--------|----------|--------|---------|----------|--------|----------|--------|
| 1 | PLUG | | | | 10 | 120 | 41 | 12 | PSR210 | 2 | 102 | 97 | 17.5 | PSR210 |
| 2 | PLUG | | | | 11 | 114 | 42 | 12 | PSR210 | 3 | 108 | 98 | 17.5 | PSR210 |
| 3 | 108 | 1 | 6 | PSR210 | 12 | 114 | 43 | 12 | PSR210 | 4 | 108 | 99 | 17.5 | PSR210 |
| 4 | PLUG | | | | 13 | 108 | 44 | 12.5 | PSR210 | 5 | 114 | 100 | 17.5 | PSR210 |
| 5 | 114 | 2 | 6 | PSR210 | 14 | 108 | 45 | 12.5 | PSR210 | 6 | 114 | 101 | 17 | PSR210 |
| 6 | PLUG | | | | 15 | 102 | 46 | 12.5 | PSR210 | 7 | 120 | 102 | 17 | PSR210 |
| 7 | 120 | 3 | 6 | PSR210 | 16 | 96 | 47 | 13 | PSR210 | 8 | 120 | 103 | 17 | PSR210 |
| 8 | PLUG | | | | TOWER 4 | | | | | 9 | 120 | 104 | 17 | PSR210 |
| 9 | 120 | 4 | 6.5 | PSR210 | 1 | 96 | 48 | 13 | PSR210 | 10 | 120 | 105 | 17.5 | PSR210 |
| 10 | PLUG | | | | 2 | 102 | 49 | 13 | PSR210 | 11 | 114 | 106 | 17.5 | PSR210 |
| 11 | 114 | 5 | 7 | PSR210 | 3 | 108 | 50 | 13 | PSR210 | 12 | 114 | 107 | 18 | PSR210 |
| 12 | PLUG | | | | 4 | 108 | 51 | 13.5 | PSR210 | 13 | 108 | 108 | 18 | PSR210 |
| 13 | 108 | 6 | 8 | PSR210 | 5 | 114 | 52 | 13 | PSR210 | 14 | 108 | 109 | 18.5 | PSR210 |
| 14 | PLUG | | | | 6 | 114 | 53 | 13 | PSR210 | 15 | 102 | 110 | 18.5 | PSR210 |
| 15 | 102 | 7 | 8.5 | PSR210 | 7 | 120 | 54 | 13 | PSR210 | 16 | 96 | 111 | 18.5 | PSR210 |
| 16 | PLUG | | | | 8 | 120 | 55 | 13 | PSR210 | TOWER 8 | | | | |
| TOWER 1 | | | | | 9 | 120 | 56 | 13 | PSR210 | 1 | 96 | 112 | 18.5 | PSR210 |
| 1 | 96 | 8 | 9.5 | PSR210 | 10 | 120 | 57 | 13.5 | PSR210 | 2 | 102 | 113 | 18.5 | PSR210 |
| 2 | PLUG | | | | 11 | 114 | 58 | 13.5 | PSR210 | 3 | 108 | 114 | 18.5 | PSR210 |
| 3 | 108 | 9 | 10 | PSR210 | 12 | 114 | 59 | 14 | PSR210 | 4 | 108 | 115 | 19 | PSR210 |
| 4 | PLUG | | | | 13 | 108 | 60 | 14 | PSR210 | 5 | 114 | 116 | 18.5 | PSR210 |
| 5 | 114 | 10 | 10 | PSR210 | 14 | 108 | 61 | 14 | PSR210 | 6 | 114 | 117 | 18.5 | PSR210 |
| 6 | PLUG | | | | 15 | 102 | 62 | 14.5 | PSR210 | 7 | 120 | 118 | 18.5 | PSR210 |
| 7 | 120 | 11 | 10.5 | PSR210 | 16 | 96 | 63 | 14.5 | PSR210 | 8 | 120 | 119 | 18 | PSR210 |
| 8 | PLUG | | | | TOWER 5 | | | | | 9 | 120 | 120 | 18 | PSR210 |
| 9 | 120 | 12 | 11 | PSR210 | 1 | 96 | 64 | 14.5 | PSR210 | 10 | 120 | 121 | 18.5 | PSR210 |
| 10 | PLUG | | | | 2 | 102 | 65 | 14.5 | PSR210 | 11 | 114 | 122 | 18.5 | PSR210 |
| 11 | 114 | 13 | 11.5 | PSR210 | 3 | 108 | 66 | 14.5 | PSR210 | 12 | 114 | 123 | 19 | PSR210 |
| 12 | PLUG | | | | 4 | 108 | 67 | 15 | PSR210 | 13 | 108 | 124 | 19.5 | PSR210 |
| 13 | 108 | 14 | 12 | PSR210 | 5 | 114 | 68 | 14.5 | PSR210 | 14 | 108 | 125 | 19.5 | PSR210 |
| 14 | PLUG | | | | 6 | 114 | 69 | 14.5 | PSR210 | 15 | 102 | 126 | 19.5 | PSR210 |
| 15 | 102 | 15 | 12.5 | PSR210 | 7 | 120 | 70 | 14.5 | PSR210 | 16 | 96 | 127 | 19.5 | PSR210 |
| 16 | PLUG | | | | 8 | 120 | 71 | 14.5 | PSR210 | TOWER 9 | | | | |
| TOWER 2 | | | | | 9 | 120 | 72 | 14.5 | PSR210 | 1 | 96 | 128 | 20 | PSR210 |
| 1 | 96 | 16 | 11.5 | PSR210 | 10 | 120 | 73 | 15 | PSR210 | 2 | 96 | 129 | 20 | PSR210 |
| 2 | 102 | 17 | 9.5 | PSR210 | 11 | 114 | 74 | 15 | PSR210 | 3 | 96 | 130 | 20 | PSR210 |
| 3 | 108 | 18 | 9.5 | PSR210 | 12 | 114 | 75 | 15.5 | PSR210 | 4 | 96 | 131 | 20 | PSR210 |
| 4 | 108 | 19 | 9.5 | PSR210 | 13 | 108 | 76 | 15.5 | PSR210 | | | | | |
| 5 | 114 | 20 | 9.5 | PSR210 | 14 | 108 | 77 | 15.5 | PSR210 | | | | | |
| 6 | 114 | 21 | 9.5 | PSR210 | 15 | 102 | 78 | 15.5 | PSR210 | | | | | |
| 7 | 120 | 22 | 9.5 | PSR210 | 16 | 96 | 79 | 16 | PSR210 | | | | | |
| 8 | 120 | 23 | 9.5 | PSR210 | TOWER 6 | | | | | | | | | |
| 9 | 120 | 24 | 10 | PSR210 | 1 | 96 | 80 | 16 | PSR210 | | | | | |
| 10 | 120 | 25 | 10 | PSR210 | 2 | 102 | 81 | 16 | PSR210 | | | | | |
| 11 | 114 | 26 | 10 | PSR210 | 3 | 108 | 82 | 16 | PSR210 | | | | | |
| 12 | 114 | 27 | 10.5 | PSR210 | 4 | 108 | 83 | 16 | PSR210 | | | | | |
| 13 | 108 | 28 | 10.5 | PSR210 | 5 | 114 | 84 | 16 | PSR210 | | | | | |
| 14 | 108 | 29 | 11 | PSR210 | 6 | 114 | 85 | 16 | PSR210 | | | | | |
| 15 | 102 | 30 | 11 | PSR210 | 7 | 120 | 86 | 16 | PSR210 | | | | | |
| 16 | 96 | 31 | 11 | PSR210 | 8 | 120 | 87 | 16 | PSR210 | | | | | |
| TOWER 3 | | | | | 9 | 120 | 88 | 16 | PSR210 | | | | | |
| 1 | 96 | 32 | 11.5 | PSR210 | 10 | 120 | 89 | 16 | PSR210 | | | | | |
| 2 | 102 | 33 | 11.5 | PSR210 | 11 | 114 | 90 | 16 | PSR210 | | | | | |
| 3 | 108 | 34 | 11.5 | PSR210 | 12 | 114 | 91 | 16.5 | PSR210 | | | | | |
| 4 | 108 | 35 | 11.5 | PSR210 | 13 | 108 | 92 | 17 | PSR210 | | | | | |
| 5 | 114 | 36 | 11.5 | PSR210 | 14 | 108 | 93 | 17 | PSR210 | | | | | |
| 6 | 114 | 37 | 11.5 | PSR210 | 15 | 102 | 94 | 17 | PSR210 | | | | | |
| 7 | 120 | 38 | 11.5 | PSR210 | 16 | 96 | 95 | 17.5 | PSR210 | | | | | |
| 8 | 120 | 39 | 11.5 | PSR210 | TOWER 7 | | | | | | | | | |
| 9 | 120 | 40 | 11.5 | PSR210 | 1 | 96 | 96 | 17.5 | PSR210 | | | | | |

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119611

SEPTEMBER 22, 2025

DEALER - CRUZAN IRRIGATION

IRRIGATOR - SCOTT MAHAFFEY

FIELD - PIVOT OLD 1/4

TOTAL LENGTH PIPE = 1297.40 SYSTEM PRESSURE = 50 PSI
GPM UNDER PIPE = 661.65 TOTAL GPM = 750.36
ACRES UNDER PIPE = 121.40
RANGE OF ENDGUN = 82.79
GPM OF ENDGUN = 88.71
ACRES UNDER ENDGUN = 15.99
WATERING LENGTH = 1380.19

MOTOR SIZE (HP) = .6
LOADED MOTOR RPM = 1800
CENTER GEAR BOX RATIO = 53
WHEEL GEAR BOX RATIO = 52
TIRE SIZE = 11.2 X 38
LAST TOWER SPEED (FPM) = 9.39

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

| PRECIPITATION BASED | | | % TIMER BASED | | |
|-------------------------|--------------------|------------------|--------------------|-------------------------|------------------|
| PRECIPITATION INCHES | % TIMER SETTING | TIME HOURS | % TIMER SETTING | PRECIPITATION INCHES | TIME HOURS |
| .17 | 100.00 | 14.06 - 844(min) | 100.00 | .17 | 14.06 - 844(min) |
| .20 | 84.67 | 16.61 | 90.00 | .19 | 15.62 |
| .25 | 67.73 | 20.76 | 80.00 | .21 | 17.58 |
| .30 | 56.45 | 24.91 | 70.00 | .24 | 20.09 |
| .40 | 42.33 | 33.21 | 60.00 | .28 | 23.44 |
| .50 | 33.87 | 41.52 | 50.00 | .34 | 28.12 |
| .60 | 28.22 | 49.82 | 45.00 | .38 | 31.25 |
| .70 | 24.19 | 58.13 | 40.00 | .42 | 35.15 |
| .75 | 22.58 | 62.28 | 35.00 | .48 | 40.18 |
| .80 | 21.17 | 66.43 | 30.00 | .56 | 46.87 |
| .90 | 18.82 | 74.73 | 25.00 | .68 | 56.25 |
| 1.00 | 16.93 | 83.04 | 20.00 | .85 | 70.31 |
| 1.25 | 13.55 | 103.80 | 15.00 | 1.13 | 93.74 |
| 1.50 | 11.29 | 124.56 | 10.00 | 1.69 | 140.61 |
| 1.75 | 9.68 | 145.31 | 5.00 | 3.39 | 281.23 |

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.

DEALER - CRUZAN IRRIGATION
P.O. - 5926

IRRIGATOR - SCOTT MAHAFFEY
FIELD - PIVOT OLD 1/4

| SPAN 1 | SPAN 2 | SPAN 3 | SPAN 4 | SPAN 5 | SPAN 6 | SPAN 7 | SPAN 8 | SPAN 9 | ENDBOOM |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> | <u>POS/LEN</u> |
| 1 - 108 | 8 - 96 | 16 - 96 | 32 - 96 | 48 - 96 | 64 - 96 | 80 - 96 | 96 - 96 | 112 - 96 | 128 - 96 |
| 2 - 114 | 9 - 108 | 17 - 102 | 33 - 102 | 49 - 102 | 65 - 102 | 81 - 102 | 97 - 102 | 113 - 102 | 129 - 96 |
| 3 - 120 | 10 - 114 | 18 - 108 | 34 - 108 | 50 - 108 | 66 - 108 | 82 - 108 | 98 - 108 | 114 - 108 | 130 - 96 |
| 4 - 120 | 11 - 120 | 19 - 108 | 35 - 108 | 51 - 108 | 67 - 108 | 83 - 108 | 99 - 108 | 115 - 108 | 131 - 96 |
| 5 - 114 | 12 - 120 | 20 - 114 | 36 - 114 | 52 - 114 | 68 - 114 | 84 - 114 | 100 - 114 | 116 - 114 | |
| 6 - 108 | 13 - 114 | 21 - 114 | 37 - 114 | 53 - 114 | 69 - 114 | 85 - 114 | 101 - 114 | 117 - 114 | |
| 7 - 102 | 14 - 108 | 22 - 120 | 38 - 120 | 54 - 120 | 70 - 120 | 86 - 120 | 102 - 120 | 118 - 120 | |
| | 15 - 102 | 23 - 120 | 39 - 120 | 55 - 120 | 71 - 120 | 87 - 120 | 103 - 120 | 119 - 120 | |
| | | 24 - 120 | 40 - 120 | 56 - 120 | 72 - 120 | 88 - 120 | 104 - 120 | 120 - 120 | |
| | | 25 - 120 | 41 - 120 | 57 - 120 | 73 - 120 | 89 - 120 | 105 - 120 | 121 - 120 | |
| | | 26 - 114 | 42 - 114 | 58 - 114 | 74 - 114 | 90 - 114 | 106 - 114 | 122 - 114 | |
| | | 27 - 114 | 43 - 114 | 59 - 114 | 75 - 114 | 91 - 114 | 107 - 114 | 123 - 114 | |
| | | 28 - 108 | 44 - 108 | 60 - 108 | 76 - 108 | 92 - 108 | 108 - 108 | 124 - 108 | |
| | | 29 - 108 | 45 - 108 | 61 - 108 | 77 - 108 | 93 - 108 | 109 - 108 | 125 - 108 | |
| | | 30 - 102 | 46 - 102 | 62 - 102 | 78 - 102 | 94 - 102 | 110 - 102 | 126 - 102 | |
| | | 31 - 96 | 47 - 96 | 63 - 96 | 79 - 96 | 95 - 96 | 111 - 96 | 127 - 96 | |

SUMMARY OF DROPS

19 - 96 IN DROP
16 - 102 IN DROP
32 - 108 IN DROP
32 - 114 IN DROP
32 - 120 IN DROP

TOTAL OF 131 DROPS