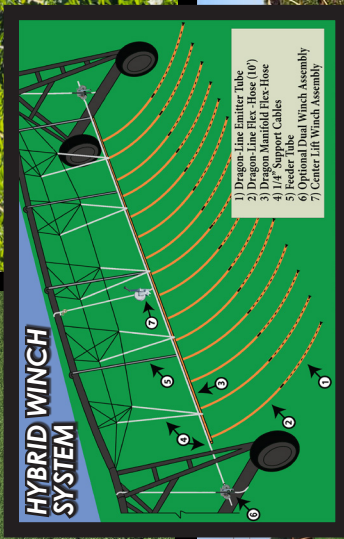


DRAGON-LINE[®]

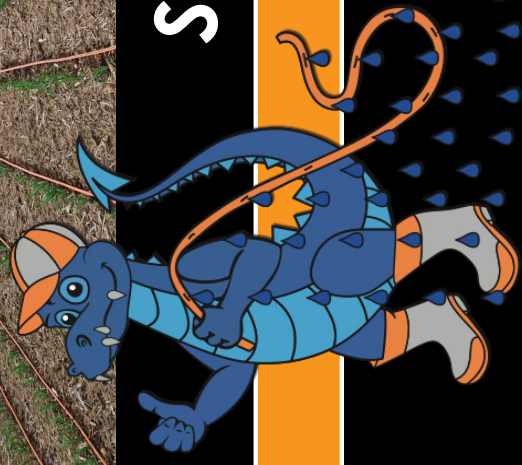
MOBILE DRIP IRRIGATION



Sustainable Water-Saving Solution!

— www.DragonLine.net —

Dragon-Line[®] Mobile Drip Irrigation is a patented and trademarked technology that combines drip irrigation with pivot irrigation. Precise irrigation for precision farming.



Website

US PAT #9,420,752

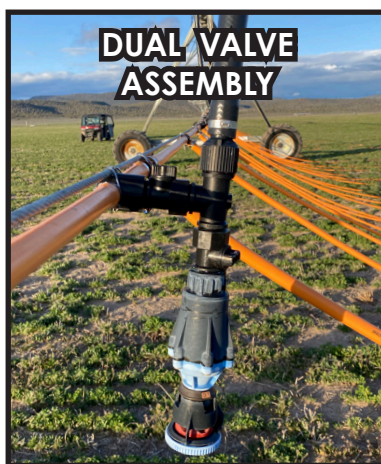
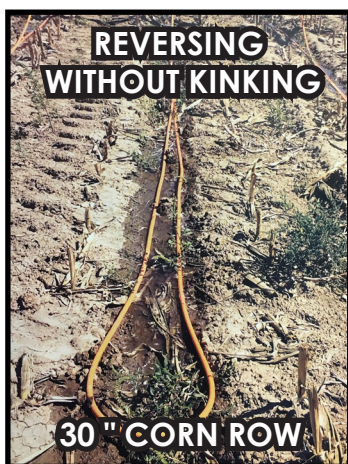
WHAT IS DRAGON-LINE®?

DRAGON-LINE® patented technology, combines the efficiency of surface drip irrigation with the flexibility and economics of mechanized irrigation systems. DRAGON-LINE® is the Orange drip-line tubing co-extruded from a blend of high quality PE resin. The pressure compensating emitters are continuous self-flushing, welded to the internal wall of the drip-line, and fully operational at 10 PSI. DRAGON-LINE® Emitter Tubing is attached to Dragon Flex Hose which drags completely on soil surface, thus the name "DRAGON-LINE®". As DRAGON-LINE® is pulled behind the system, the emitters deliver a uniform water pattern across the full length of the irrigated area.

DRAGON-LINE® significantly reduces evaporation, soil compaction, wind drift and wheel tracks.

WHAT ARE THE BENEFITS?

- ◆ 20-50% Water, energy, and labor savings
- ◆ Eliminates wind drift, reduces evaporation, and banks water into the soil
- ◆ Reduces water run off, soil compaction and crusting
- ◆ Eliminates wheel track issues
- ◆ Apply fertilizer and water precisely to the soil through drip tubing
- ◆ Accurate watering for small GPM applications
- ◆ Foliage stays dry, reducing potential for plant diseases and insect infestation
- ◆ Eliminates plant shock from sudden temperature changes
- ◆ Adjust manifold placement left or right for precise tubing placement for germinating seeds
- ◆ Adjust manifolds vertically to fit all crop heights



FILTRATION METHODS

80 Mesh or 200 Micron filtration and a water sample are required on all systems. Filtration methods of automatic, semi-automatic, and manual will vary based on water quality.



CHLORINATION METHODS

Dragon-Line can provide pumps that effectively inject chlorine or other types of chemicals to prevent clogging of emitters due to organic materials like iron bacteria. We currently use the Stenner and LMI pumps.

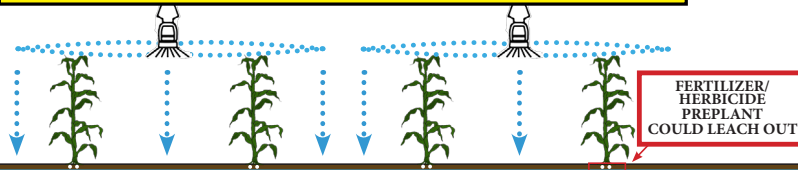


Conventional Irrigation

DRAGON-LINE IRRIGATION

1.25" (31.75mm) Application Rate

CONVENTIONAL IRRIGATION

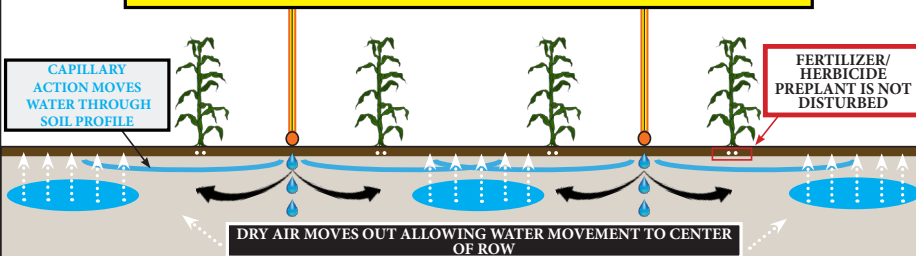


ZONE OF PENETRATION EACH PASS COULD = 1- 5"

LAYER OF DRY AIR IS TRAPPED INTO SOIL

Conventional Irrigation separates soil particles creating soil sealing, compaction, and run off.

DRAGON-LINE® IRRIGATION



Dragon-line® allows water to penetrate soil moving dry air out promoting capillary action.

Conventional Irrigation concentrates water application into a small wetted area at a very fast delivery rate. Water melts and separates soil particles in a 3" to 5" depth of application and traps dry air into soil. Until air moves out, water will not soak in. This compounds sealing and compaction issues every-time water is applied.

DRAGON-LINE® Irrigation

is the opposite of conventional watering. Water application is distributed in long thin strips, allowing water to be pulled into the soil as air moves out with the natural process of "Capillary Action". Soil particles are not disturbed. Soil remains mellow throughout the watering season.

Evaporative Loss by Soil Texture and Amount of Surface Water applied on Bare Soil with Conventional Irrigation

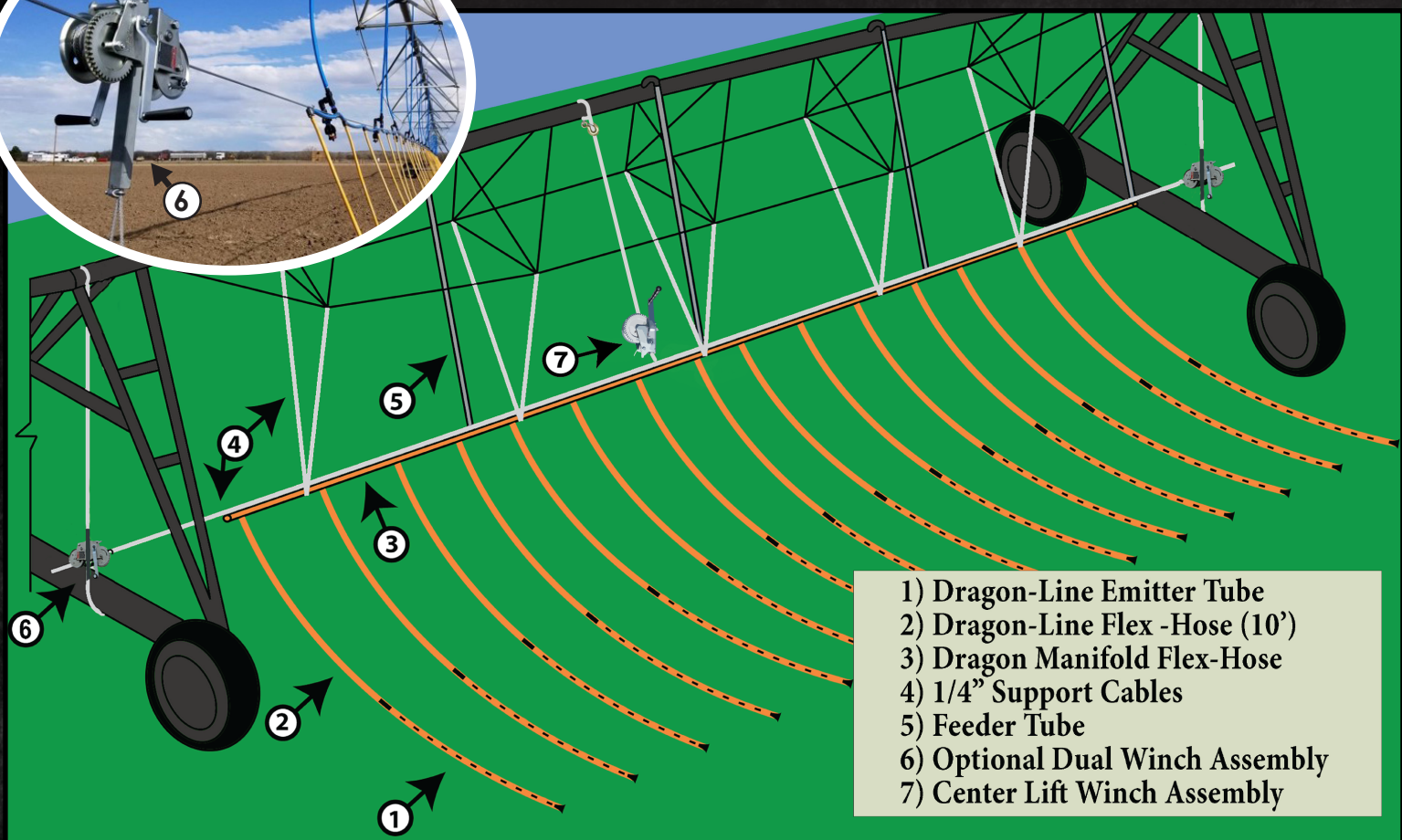
Results for applying 1.2"(30.5mm) of water per irrigation in spring watering. Then measured the loss readily evaporable water over 1 to 2 days during a 2 year study.

Soil Types	Loss of Readily Evaporable Water
Clay Loam (Pullman), Bushland	0.67 - 0.79 inch / 17 - 20mm (55% - 65%)
Silt Loam (Ulysses), Garden City	0.60 - 0.70 inch / 15 - 18mm (50% - 58%)
Sandy Loam (Amarillo), Big Spring	0.47 - 0.60 inch / 12 - 15mm (39% - 50%)
Fine Sand (Vingo), Dalhart	0.27 - 0.32 inch / 6.9 - 8.1mm (23% - 27%)

Total Evaporable Water (On Average)

47% loss of water with each irrigation application of **more** than 1.2 inches (30.5mm)
72% loss of water with each irrigation if application is **less** than 1.2 inches (30.5mm)

HYBRID WINCH SYSTEM



- 1) Dragon-Line Emitter Tube
- 2) Dragon-Line Flex -Hose (10')
- 3) Dragon Manifold Flex-Hose
- 4) 1/4" Support Cables
- 5) Feeder Tube
- 6) Optional Dual Winch Assembly
- 7) Center Lift Winch Assembly

DRAGON-LINE® New Hybrid Style!

The manifold is fully adjustable to adapt to any crop height or crop rotation with our new V-jack Cable Hook Assembly and the Dual Winch System. Both allow the manifold to be adjusted left and right for precise placement of the Dragon-Line drip tubing for germinating seeds, not weeds. The manifold can be raised and lowered as the crop grows or for crop rotation. Unparalleled adjustability throughout the season is achieved with the Dragon-Line Mobile Drip Irrigation System!

Your Authorized Dealer

DRAGON-LINE®
MOBILE DRIP IRRIGATION

www.dragonline.net

NEW R.T.I (READY TO INSTALL) DRAGON-LINE® KIT



- Complete 122 AC/50 HA (550 GPM/125 m³/h) Dragon-Line Hybrid system packaged in a single crate.
- Everything needed is pre-cut and assembled for quick install with easy-to-read manual
- Ready to ship world-wide from Kansas, USA.

