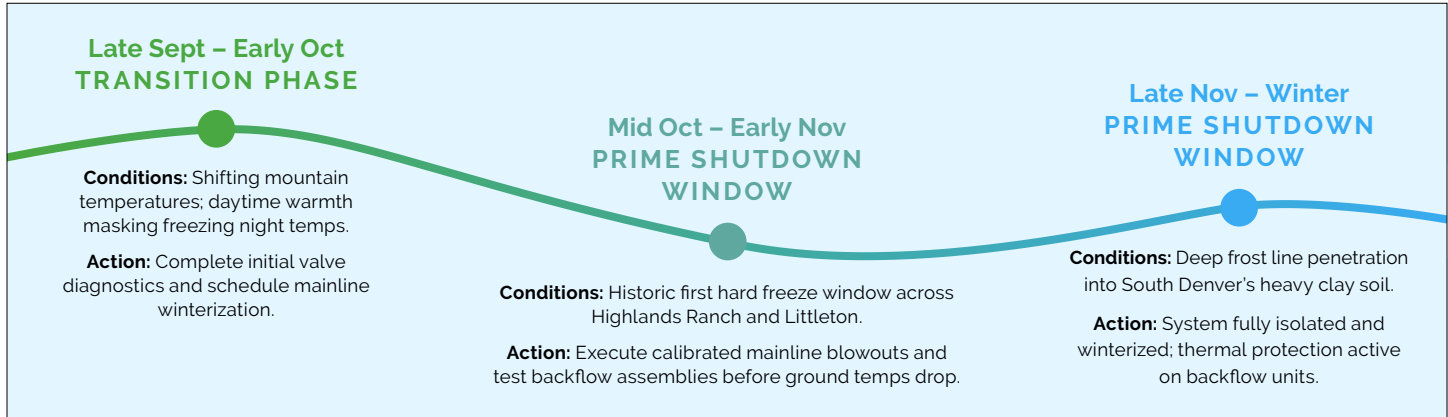


Fall Freeze Timeline



5-Point Fall Irrigation Checklist

1. Valve & Solenoid Diagnostics

- ☐ Inspect internal seals and diaphragms for wear prior to ground freeze
- ☐ Test electrical solenoids at the controller box for signal consistency
- ☐ Identify/tag weeping or slow-closing valves for repair

2. Backflow Assembly Testing & Protection

- ☐ Perform pressure drop testing for municipal compliance
- ☐ Drain backflow body completely to protect internal brass components
- ☐ Install thermal insulation covers for frost protection

3. Sub-Surface Mainline Blowout

- ☐ Calibrate air compressor pressure based on property pipe diameter
- ☐ Cycle through each zone systematically to evacuate standing water
- ☐ Confirm water displacement across low-lying mainline segments

4. Licensed Deep-Root Soil Care

- ☐ Apply deep-root fertilization under Department of Agriculture licensing
- ☐ Feed micro-nutrients directly into heavy South Denver clay soil
- ☐ Execute targeted weed management to prepare turf for spring recovery

5. Component Clearance & Mapping

- ☐ Clear fallen leaf buildup around valve boxes and backflow cages
- ☐ Trim overgrown shrubs blocking line-of-sight to key access points
- ☐ Verify box lid placements and document location coordinates for spring startup



Financial Risk & Asset Benchmark

Component Service Area	Proactive Fall Protocol	Potential Spring Emergency Cost
Mainline Clearing	Calibrated High-CFM Air Displacement	Pipe Rupture & Asphalt Excavation \$3,500 to \$8,500
Backflow Winterization	Body Drain & Thermal Insulation Wrap	Cracked Brass Casting & Compliance Re-Test \$1,200 to \$2,800
Valve Diagnostics	Diaphragm Check & Solenoid Voltage Audit	Shattered Vault Bodies & Vault Re-Wiring \$800 to \$2,200
Clay Soil & Turf	Deep-Root Feeding	Winter Root Desiccation & Spring Reseeding \$2,500+