Vertical Multi-Treatment Seasonal Progression Analysis KSAS8101 Winter Wheat (1981-1982) **Phenological Stages:** Pink: Anthesis (Day 227) Orange: Maturity (Day 260) **Treatment Types:** Solid: Dryland Dashed: Irrigated a) Grain Yield Development 5000 Dryland + 0N Grain Yield (kg/ha)
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0000 Dryland + 60N Dryland + 180N — — Irrigated + 0N -- Irrigated + 60N — Irrigated + 180N 0 b) Total Biomass Development Total Biomass (kg/ha)
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0006 0 c) Harvest Index Development Harvest Index (0-1) 0.0 0.0 1.0 0.0 0.0 d) Root Depth Development Root Depth (cm) 9.0 cm e) Grain Number Development Grain Number (#/m²) 10000 20000 10000 20000 20000 0 f) Grain Size Development 0 g) Grain Protein Content 16 Protein Content (%) 8 0 17 17 h) Weather Pattern Temperature (°C) 00 00 00 Drecipitation (mm) Multiple Variables i) Phenological Stages Irrigated + 180N Sowing Anthesis Irrigated + 60N Maturity Harvest Irrigated + 0N Dryland + 180N Dryland + 60N Dryland + 0N 50 100 150 200 250 300 Days After Sowing (DAS) j) Cumulative Nitrogen Stress k) Cumulative Water Stress Cumulative Water Stress I) Yield Prediction Error Analysis 5000 Mean Abs Error: 14.1% Grain Yield (kg/ha) 0000 0000 0000 -22.7% +4.7% -33.3% -13.2% Observed Simulated