



Production Practices for Late Planted Sunflower in Eastern Kansas

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Crop Variety Development

- **New Crop Development**
 - **Short Season Corn 10 fold increase in acres**
 - » **now 20 bu/a better than milo**
 - **Cotton: good results but limited interest**
 - » **due to lack of a local gin, equipment**
 - **Canola: promising but problems persist**
 - » **winter hardiness**
 - **Sunflower: new research for NSA**
 - » **double crop sunflowers**

Crop Variety Development

- Cropping patterns in SE Kansas where we have hot and dry July-August. Clay pan soils.
 - **Beat drought on the front side with short season corn; silk by June 20 dent by July 20.**
 - **Beat drought on the back side with soybean June 1 planted as a 1st crop or double crop in late June or July following wheat. Determinates as late MG IV or early MG V.**
 - **Sunflower is of special interest as a double crop across southern and eastern Kansas. First frost 3rd week of Oct. Early planted too.**





Planting Date X Population X Harvest Treatment

- **Plant Date - Three Dates**
 - July 1 (183), July 15 (197), August 1 (214)
- **Populations – Five Final Stands**
 - 15, 20, 25, 30, 35,000 plants / acre
- **Harvest Treatments – Three treatments**
 - None, Roundup, Kixor

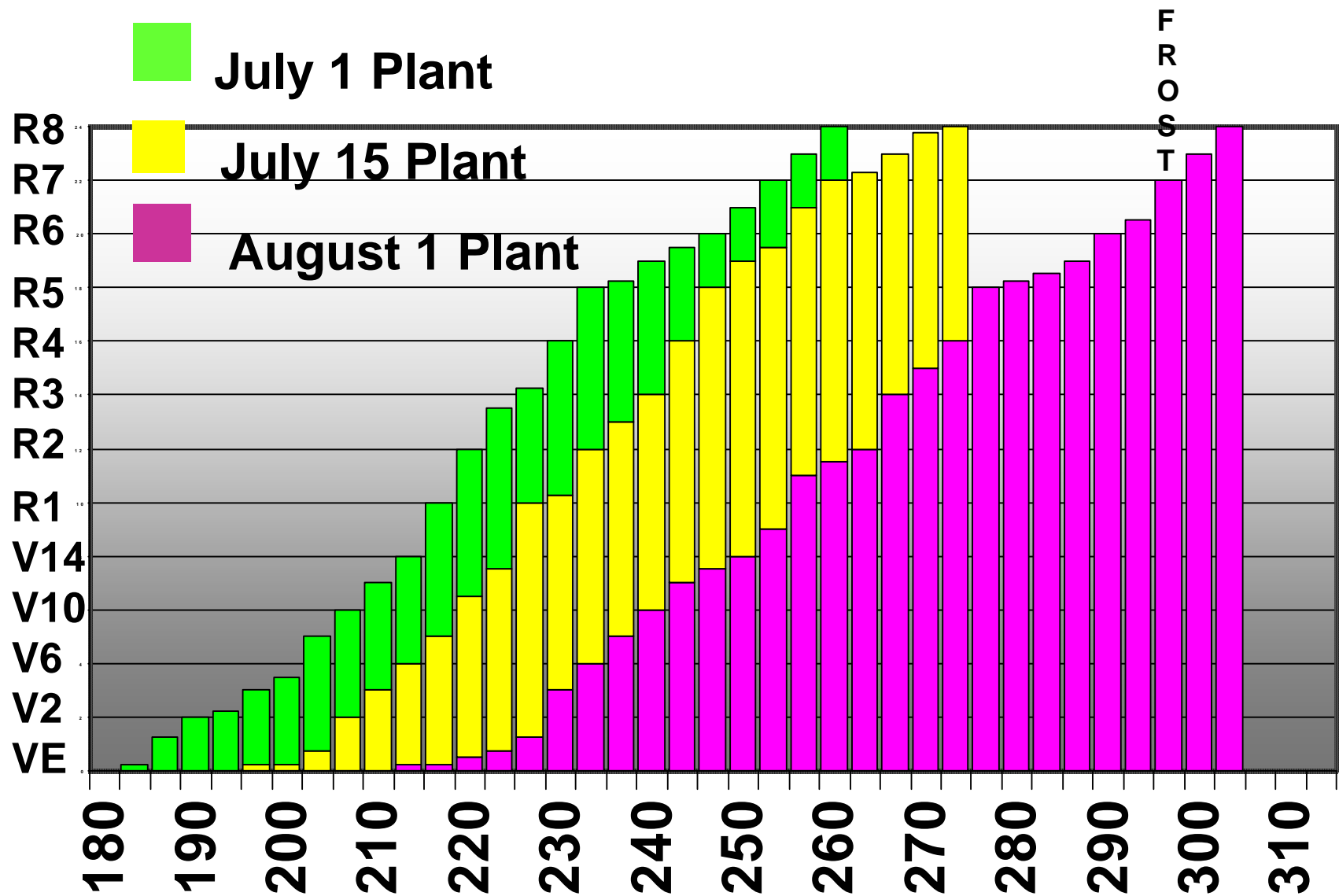


Figure 1. Sunflower Growth Stages by Day of the Year. Late-Planted with July-Nov. 2008 Dates







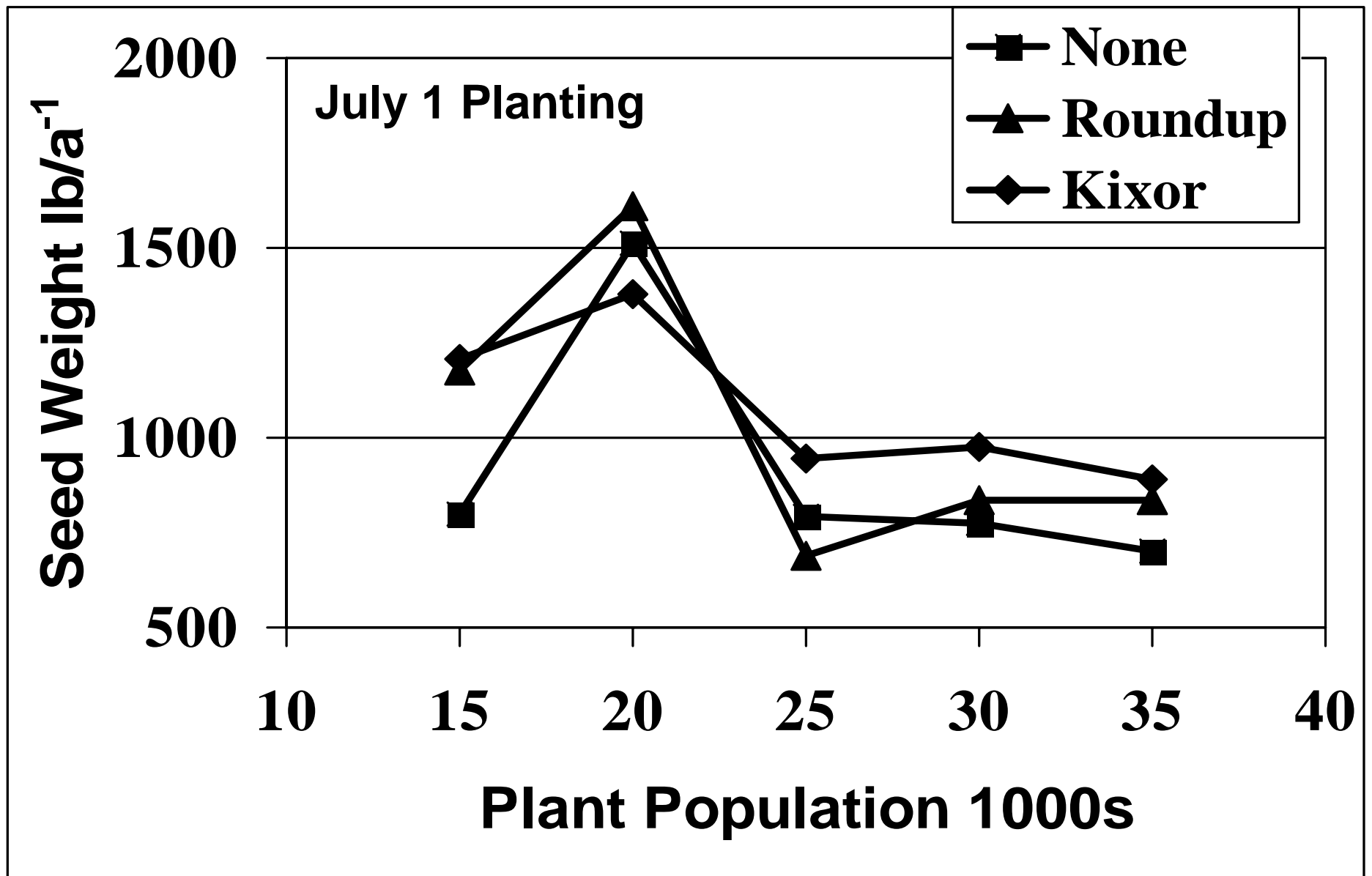


Figure 2. Effect of Plant Population on Sunflower Seed Yield With 3 Harvest Treatments in SE Kansas –2008

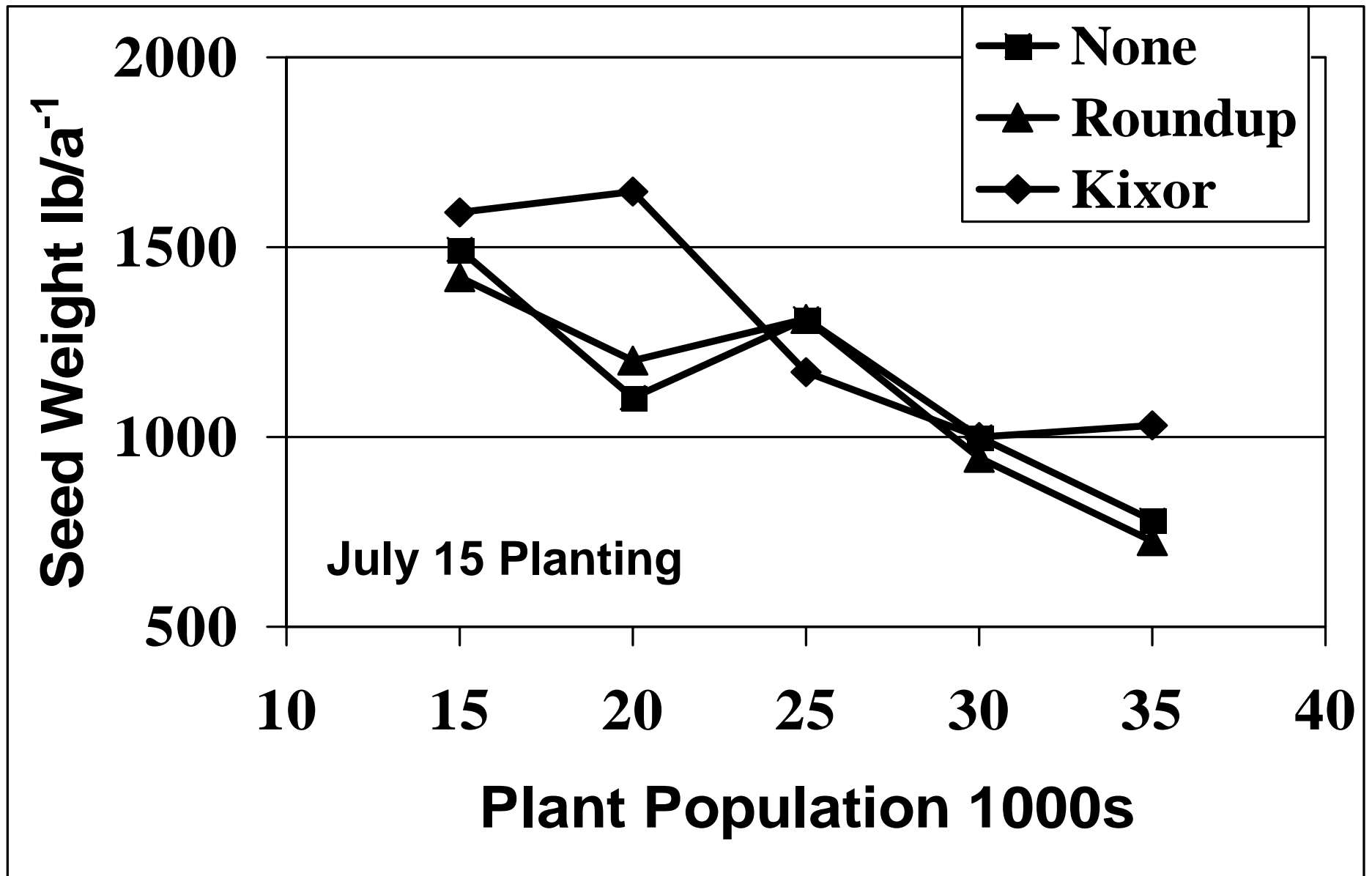


Figure 3. Effect of Plant Population on Sunflower Seed Yield With 3 Harvest Treatments in SE Kansas –2008

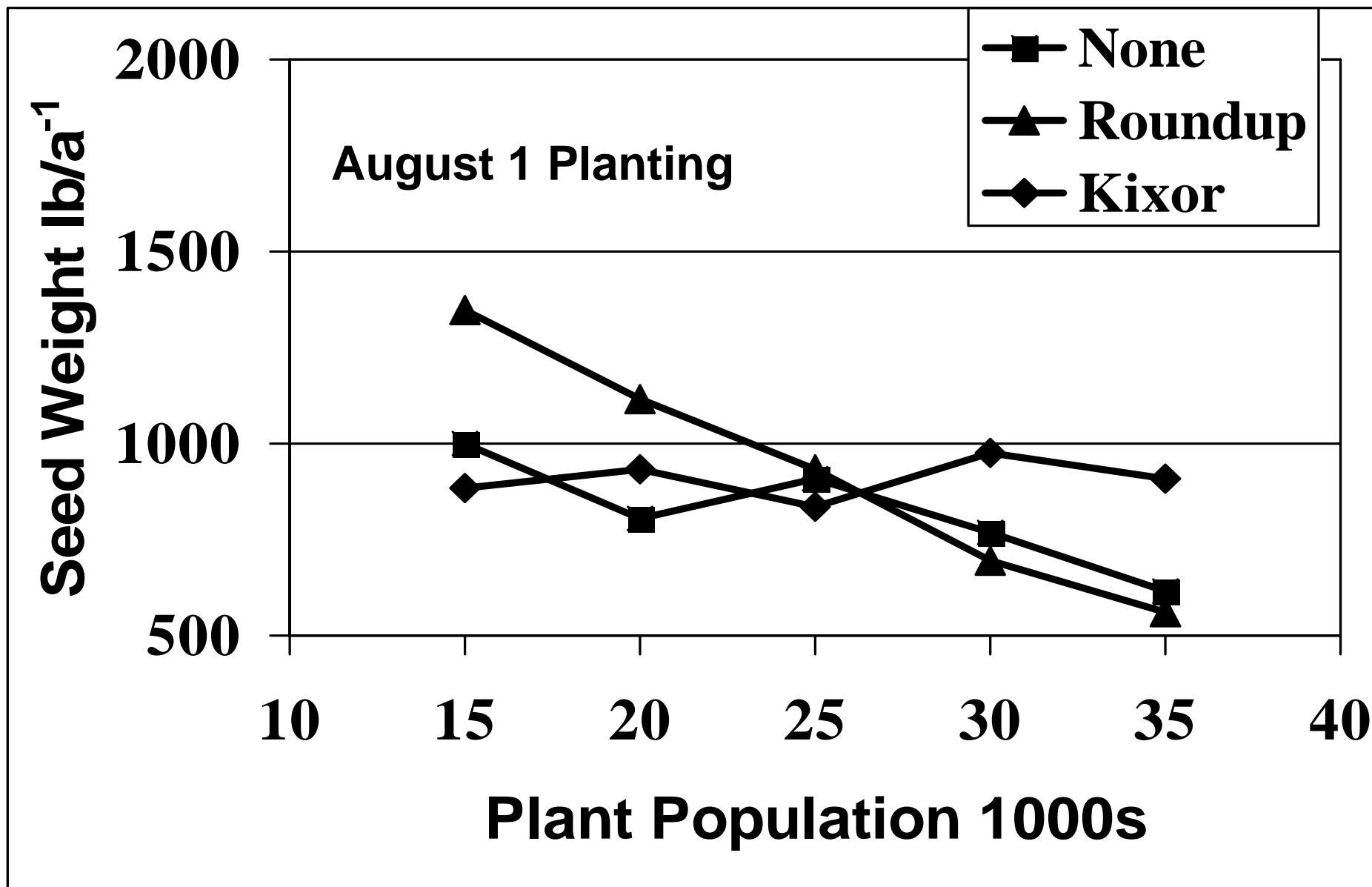


Figure 4. Effect of Plant Population on Sunflower Seed Yield With 3 Harvest Treatments in SE Kansas –2008



