

Randall A. Brady  
Ag Consultant & Remote Sensing  
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**Experience:**

1991 - Present. Self employed as Agricultural Consultant specializing in interpretation of satellite imagery and photography for use in assessing crop production conditions. I specialize in recommending the appropriate data, searching photo and satellite archives and creating vegetation maps and assessing moisture stress. I have used GPS (Global Positioning Satellite) to make yield maps, and also incorporate the information into the photos or satellite data. Experience with most crops over a wide geographical area. I have worked class actions where data has been used to settle claims prior to harvest. A partial client list includes Monsanto, Dow AgroSciences, Rush Marcroft & Associates, Bahme & Associates, Zeneca Ag Products, DuPont, Simplot Soilbuilders, FMC, National Crop Insurance Service, Waste Management, Common Wealth Edison, Standard Fruit of Honduras, Litton Consulting Group, Geonex, USDA Nationwide Forestry Applications, Trimble Navigation and numerous farmers.

1992-2002

Precision Irrigation Control Systems, Inc (PiCS). Joined this group at the request of patent holder's from the University of Idaho. I initiated and completed several USDA SBIR research projects which demonstrated the ability to variably apply irrigation water through center pivot irrigation.

1985 to 1990. Geonex Verde, Sacramento, Ca. 95822. Joined this firm as Director of Technical Services and later promoted to General Manager. I have extensive experience mapping site conditions with multi-spectral imaging for agriculture and verifying conditions with field inspection. Experienced with data collection and interpretation of thermal scanners for use in irrigation water distribution and irrigation scheduling.

1973-1985. Servi-Tech Inc., Dodge City Ks. Managed and trained a staff of 85 agronomists to provide consulting services to growers on fertility, economics, pest and water management. First large commercial irrigation scheduling firm to consult on 1,000,000 acres of irrigated land in a cropping season. Conducted field trials and residue work of numbered compounds for FMC and Dow.

**Education:**

1972 B.S. Soil Science, Kansas State University

1974 M.S. Soil Science, Evapotranspiration Research Laboratory, Kansas State University

**Professional:**

American Society of Agronomy (member emeritus)

American Society of Photogrammetry & Remote Sensing (past member)

Certified Crop Advisor (Passed certification, but not currently active)

## **Publications:**

"Relation of Soil Water Potential to Stomatal Resistance of Soybean." Agronomy Journal. 67:97-99.

"Relation of Soybean Leaf Water Potential to Soil Water Potential." Agronomy Journal. 66:795-798.

"Water Conservation through Proper Timing of Soybean Irrigation." Journal of Soil and Water conservation. Vol. 29:266-268.

Thesis: "Stomatal Resistance, Leaf Water Potential and Yield in Irrigated and Non-Irrigated Soybeans."

"Private Consultant's Role in Scheduling Irrigation and Measuring Pump Efficiencies." 13th Annual Irrigation Conference. Columbia, Mo. Feb. 5, 1981.

"What's Your Irrigation I.Q.?" Ag Consultant and Fieldman. Meister Publishing. April, 1981. Vol. 37, No. 4, p.26-28.

"Irrigation Scheduling Manual" In-house publication, Servi-Tech, Inc. Dodge City, KS. Dec. 1982.

"Upper Illinois Waterway Study" Aerial Survey of Surface Temperatures Using Infrared Scanning Techniques. Summer 1993. Interim Report.

"Upper Illinois Waterway Study" Aerial Survey of Surface Temperatures Using Infrared Scanning Techniques. Winter 1993. Interim Report.

"Advanced Water Resources Management Using Automated Irrigation and Remote Sensing" Final Report Phase I– USDA SBIR Proposal Number 94-00218.

"Advanced Water Resources Management Using Automated Irrigation and Remote Sensing" Final Report Phase II– USDA SBIR Agreement Number 95-33610-1973.

## **Coauthor:**

"Continued Experience with Emerging Irrigation Technologies." 1992 International Summer Meeting, American Society of Agricultural Engineers. Charlotte, N.C. Paper No. 922088.

"Variable Rate Water Application through Sprinkler Irrigation." March 1994. Site Specific Crop Management Conference. Minneapolis, Minn.

"Variable Rate Irrigation Control System for Center-Pivots: Current Progress" 1994 Pacific Northwest Section Meeting ASAE. Logan, UT. Paper No. PNW-113.