

Contents

Introduction	1	Prowl 3.3 EC	41
1 – Rice Growth and Development	7	Facet 75DF	41
Vegetative Stage	7	Molinate (Ordram 15G and RiceCue 15G) ..	42
Reproductive Stage	10	Command 3ME	42
Ripening Stage	14	Broadleaf and Aquatic Weed Control	42
2 – Rice Varieties and Seed Production	15	Basagran, Blazer and Storm	43
Rice Seed Production	15	Londax 60DF	43
Rice Variety Performance and		Permit	43
Agronomic Characteristics	15	Grandstand-R 3SL	43
Other Varieties	16	2,4-D	44
Kernel Classification and Cooking Qualities	16	Aquatic Weed Control	44
3 – Rice Stand Establishment	21	Harvest Aids – Sodium Chlorate	44
Seeding Rate	21	7 – Chemical Applications	47
Seed Treatments	22	Pesticides	47
Seeding Date and Soil Temperatures	23	Ground-Based Soil Applications	47
Tillage and Post Seeding Management	25	Aerial Soil Applications	47
Research References	28	Ground-Based Postemergence	
4 – Water-Seeded Rice	29	Applications	48
Field Preparation	29	Aerial Postemergence Applications	48
Methods of Presoaking	29	Fertilizers	48
Fertility	30	Ground Applied	48
Weed Control	30	Aerially Applied	49
Insect Control	30	Material Property Effects	49
5 – DD50 Computerized		General Recommendations	50
Rice Management Program	31	References	50
How to Use the DD50	32	8 – Efficient Use of Fertilizer	51
Uses of the DD50	32	Nitrogen Fertilizer Rates	51
Explanation of the DD50 Printout	33	Maximizing N Utilization	52
Growth Stages	33	Dry Seeding	52
Herbicides	35	Early N Application and Management	53
Other	35	Midseason N Application and	
6 – Rice Weed Control	37	Management	55
Herbicide Resistance Management	38	Midseason N Management with	
Grass Weed Control	38	the Rice Gauge	56
Propanil	38	Water Seeding – Pinpoint Flood	57
Residual Herbicides	40	Conservation of No-Till Systems	58
Bolero 8E	41	Soil Sampling and Soil Analysis	58
		Sulfur	59
		Phosphorus and Potassium	60
		Phosphorus	61
		Potassium	62

Liming .....	.63	11 – Rice Insects .....	.101
Zinc .....	.64	Major Pests of Rice .....	.101
Preplant and Delayed-Pre Zn		Rice Water Weevil .....	.101
Application .....	.66	Rice Stink Bug .....	.106
Preflood Applications .....	.67	Minor Rice Insects .....	.107
Salvage Treatment for Zn Deficiency .....	.67	Grape Colaspis .....	.108
Salinity .....	.67	Armyworm .....	.109
Management of Saline Soils .....	.68	Aphids: Greenbug and	
Diagnostic Soil and Plant Tissue Sampling .....	.69	Bird Cherry-Oat Aphid .....	.110
Fertilization and Management of		Rice Stalk Borer .....	.110
Precision Graded Soils .....	.69	Billbug .....	.111
General Fertility .....	.69	Rice Seed Midges .....	.111
Rate of Litter .....	.70	Grasshoppers .....	.112
Management Tips .....	.71	Fall Armyworm .....	.112
9 – Water Management .....	.75	Chinch Bug .....	.112
Determining Water Needs .....	.75	12 – Maintaining Yield and Grain Quality .....	.113
Determining Pump Flow .....	.75	Harvesting .....	.113
Pumping Cost .....	.78	Grain Moisture .....	.113
Irrigation Water Quality .....	.78	Head Rice Yield .....	.113
Sprinkler Irrigated Rice .....	.80	Foreign Matter .....	.114
Land Grading .....	.80	Rice Grades .....	.114
Establishing Levees .....	.81	Rice Stripper Headers .....	.115
Water Delivery to Fields .....	.81	Stripper Operation .....	.115
Multiple Inlet Irrigation .....	.81	Stripper Adjustments .....	.115
Well Operation .....	.83	Thresher Speed .....	.115
Keys to Water Management Success .....	.84	Separation .....	.116
Critical Water Management Situations .....	.85	Combine Diagnostics .....	.116
10 – Management of Rice Diseases .....	.87	Performance Evaluation .....	.116
Sheath Blight .....	.87	Combine Loss Monitors .....	.119
Blast .....	.91	Yield Monitors .....	.119
Stem Rot .....	.92	Safe Operation and Overall	
Crown (Black) Sheath Rot .....	.92	Combine Management .....	.119
Kernel Smut .....	.93	Estimating Field Loss .....	.120
False Smut .....	.94	References .....	.120
Bacterial Panicle Blight .....	.95	13 – Rice Drying on the Farm .....	.121
Brown Spot .....	.95	14 – Rice Research Verification Trials .....	.123
Straighthead .....	.95	Selected Terms Used in the	
Autumn Decline or Akiuchi .....	.96	Rice Industry .....	.125
Narrow Brown Leaf Spot .....	.96		
Other Minor Diseases .....	.97		