APPENDIX XIV

Table 1   Terrain slope ratings for rain-fed conditions (Fm: 1300-1800)

High Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100			50	50				100			100			100
Annual 2	100			100			100			50	50				100			100			100
Wetland Rice	100			50	50			50	50			100			100			100			100
Sugarcane	100			100			50	50		50	50				100			100			100
Olive	100			100			100				100				100			100			100
Perennials	100			100			100				100				100			100			100
Pasture	100			100			100			100			50	50				100			100
Forage Legumes	100			100			100			50	50				100			100			100

Intermediate Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100			50	50		50	50				100			100
Annual 2	100			100			100			50	50		50	50				100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50		50	50				100			100			100
Olive	100			100			100			50	50		50	50				100			100
Perennials	100			100			100				100		25	75				100			100
Pasture	100			100			100			100			50	50		25	75				100
Forage Legumes	100			100			100			100			25	50	25			100			100

Low Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100			100			50	50				100			100
Annual 2	100			100			100			50	50		50	50				100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50		50	50				100			100			100
Olive	100			100			100			50	50		50	50				100			100
Perennials	100			100			100				100		25	75				100			100
Pasture	100			100			100			100			50	50		25	75				100
Forage Legumes	100			100			100			100			25	50	25			100			100

Modified Fournier index: $Fm = 12 \sum_{i=1}^{12} \dfrac{p_i^{\,2}}{Pann}$ where: p_i = rainfall of month i and Pann = annual rainfall total

Table 2 Terrain slope ratings for rain-fed conditions (Fm: 1800-2200)

High Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100			25	50	25			100			100			100
Annual 2	100			100			100			25	50	25			100			100			100
Wetland Rice	100			50	50			50	50			100			100			100			100
Sugarcane	100			100			50	50			25	75			100			100			100
Olive	100			100			100				50	50			100			100			100
Perennials	100			100			100				50	50			100			100			100
Pasture	100			100			100			100				25	75			100			100
Forage Legumes	100			100			100			25	50	25			100			100			100

Intermediate Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100			25	50	25			100			100			100
Annual 2	100			100			100			25	50	25			100			100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50			25	75			100			100			100
Olive	100			100			100			25	50	25			100			100			100
Perennials	100			100			100				50	50			100			100			100
Pasture	100			100			100			100			50	50			25	75			100
Forage Legumes	100			100			100			100				50	50			100			100

Low Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100			50	50				100			100			100
Annual 2	100			100			100			25	50	25			100			100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50			25	75			100			100			100
Olive	100			100			100			25	50	25			100			100			100
Perennials	100			100			100				50	50			100			100			100
Pasture	100			100			100			100			50	50			25	75			100
Forage Legumes	100			100			100			50	50			50	50			100			100

Modified Fournier index: $Fm = 12 \sum_{i=1}^{12} \frac{p_i^2}{Pann}$ where: p_i = rainfall of month i and Pann = annual rainfall total

Table 3 — Terrain slope ratings for rain-fed conditions (Fm: 2200-2500)

High Inputs

Slope Gradient Classes / Crop Groups	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100				50	50			100			100			100
Annual 2	100			100			100				50	50			100			100			100
Wetland Rice	100			50	50			50	50			100			100			100			100
Sugarcane	100			100			50	50				100			100			100			100
Olive	100			100			100					100			100			100			100
Perennials	100			100			100					100			100			100			100
Pasture	100			100			100			100					100			100			100
Forage Legumes	100			100			100				50	50			100			100			100

Intermediate Inputs

Slope Gradient Classes / Crop Groups	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100				50	50			100			100			100
Annual 2	100			100			100				50	50			100			100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50				100			100			100			100
Olive	100			100			100				50	50			100			100			100
Perennials	100			100			100					100			100			100			100
Pasture	100			100			100			100			25	50	25			100			100
Forage Legumes	100			100			100					100		25	75			100			100

Low Inputs

Slope Gradient Classes / Crop Groups	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100					100			100			100			100
Annual 2	100			100			100				50	50			100			100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50				100			100			100			100
Olive	100			100			100				50	50			100			100			100
Perennials	100			100			100					100		50	100			100			100
Pasture	100			100			100			100			25	50	25			100			100
Forage Legumes	100			100			100					100		25	75			100			100

Modified Fournier index: $Fm = 12 \sum_{i=1}^{12} \dfrac{p_i^{2}}{Pann}$ where: p_i = rainfall of month i and Pann = annual rainfall total

Table 4   Terrain slope ratings for rain-fed conditions (Fm: 2500-2700)

High Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100				25	75			100			100			100
Annual 2	100			100			100				25	75			100			100			100
Wetland Rice	100			50	50			50	50			100			100			100			100
Sugarcane	100			100			50	50				100			100			100			100
Olive	100			100			100					100			100			100			100
Perennials	100			100			100					100			100			100			100
Pasture	100			100			100			50	50				100			100			100
Forage Legumes	100			100			100				25	75			100			100			100

Intermediate Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100				25	75			100			100			100
Annual 2	100			100			100				25	75			100			100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50				100			100			100			100
Olive	100			100			100				25	75			100			100			100
Perennials	100			100			100					100			100			100			100
Pasture	100			100			100			100				25	75			100			100
Forage Legumes	100			100			100				50	50			100			100			100

Low Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			100				50	50			100			100			100
Annual 2	100			100			100				25	75			100			100			100
Wetland Rice	100			50	50			100				100			100			100			100
Sugarcane	100			100			50	50				100			100			100			100
Olive	100			100			100				25	75			100			100			100
Perennials	100			100			100					100			100			100			100
Pasture	100			100			100			100				25	75			100			100
Forage Legumes	100			100			100				50	50			100			100			100

Modified Fournier index: $Fm = 12 \sum_{i=1}^{12} \dfrac{p_i^{\,2}}{Pann}$ where: p_i = rainfall of month i and Pann = annual rainfall total

Table 5 Terrain slope ratings for rain-fed conditions (Fm > 2700)

High Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			50	50				100			100			100			100
Annual 2	100			100			50	50				100			100			100			100
Wetland Rice	100			50	50			25	75			100			100			100			100
Sugarcane	100			100			25	50	25			100			100			100			100
Olive	100			100			50	50				100			100			100			100
Perennials	100			100			50	50				100			100			100			100
Pasture	100			100			100				50	50			100			100			100
Forage Legumes	100			100			50	50				100			100			100			100

Intermediate Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			50	50			25	75			100			100			100
Annual 2	100			100			50	50			25	75			100			100			100
Wetland Rice	100			50	50			50	50			100			100			100			100
Sugarcane	100			100			25	50	25			100			100			100			100
Olive	100			100			50	50			25	75			100			100			100
Perennials	100			100			50	50				100			100			100			100
Pasture	100			100			100			100				50	50			100			100
Forage Legumes	100			100			50	50			50	50			100			100			100

Low Inputs

Slope Gradient Classes	0-2 %			2-5%			5-8%			8-16%			16-30%			30-45%			> 45%		
Crop Groups	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N	S1	S2	N
Annual 1	100			100			50	50			50	50			100			100			100
Annual 2	100			100			50	50			25	75			100			100			100
Wetland Rice	100			50	50			50	50			100			100			100			100
Sugarcane	100			100			25	50	25			100			100			100			100
Olive	100			100			50	50			25	75			100			100			100
Perennials	100			100			50	50				100			100			100			100
Pasture	100			100			100			100				50	50			100			100
Forage Legumes	100			100			50	50			50	50			100			100			100

Crop Groups: Annual 1: wheat, barley, rye
Annual 2: (maize, sorghum, pearl millet, foxtail millet, white potato, sweet potato, phaseolus bean, chickpea, cowpea, soybean and groundnut, sunflower, cotton, sugar beet, rape
Perennials: cassava, oil palm, banana, plantain