

# APPENDIX XI

## FAO '74 SOIL PHASE RATINGS FOR RAINFED CONDITIONS (at HIGH INPUT LEVEL)

Soil Phase		Crops																										
		wh	wr	dr	mz	by	sg	ry	pm	fx	wp	ca	sp	su	sb	pb	ch	cw	gn	sy	sf	rp	ct	ba	op	ol	al	gr
STONY	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	6	4	4
LITHIC	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PETRIC	3	1	6	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	1	3	1	3	3	3	3	3	3	1
PETROCALCIC	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PETROGYPSIC	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PETROFERRIC	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PHREATIC	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	1
FRAGIPAN	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
DURIPAN	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	3	3	1
SALINE	10	6	4	4	6	3	6	4	6	4	4	4	4	6	4	4	4	4	4	4	4	4	3	4	4	4	4	3
SODIC	11	3	3	4	3	3	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	3
SHIFTING	12	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ROCK DEB	13	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
OUTCROPS	14	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
DUNES	15	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SALT/FLS	16	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
LAKES	17	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ICE CAPS	18	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Note: 1 = 100% S1, 2 = 100% S2, 3 = 50% S1 and 50% S2, 4 = 100% NS, 5 = 50% S1 and 50% NS, 6 = 50% S2 and 50% NS

**FAO '74 SOIL PHASE RATINGS FOR RAINFED CONDITIONS (at LOW INPUT LEVEL)**

Soil Phase		Crops																										
		wh	wr	dr	mz	by	sg	ry	pm	fx	wp	ca	sp	su	sb	pb	ch	cw	gn	sy	sf	rp	ct	ba	op	ol	al	gr
<b>STONY</b>	<b>1</b>	2	4	2	2	2	2	2	2	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2
<b>LITHIC</b>	<b>2</b>	6	4	6	6	6	6	6	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	4	4	6	6	2
<b>PETRIC</b>	<b>3</b>	1	6	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	1	3	1	3	3	3	3	1	3	1
<b>PETROCALCIC</b>	<b>4</b>	3	6	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	3	6	3
<b>PETROGYPSIC</b>	<b>5</b>	3	6	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	3
<b>PETROFERRIC</b>	<b>6</b>	3	6	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	3
<b>PHREATIC</b>	<b>7</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	1	1
<b>FRAGIPAN</b>	<b>8</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1
<b>DURIPAN</b>	<b>9</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	3	3	1
<b>SALINE</b>	<b>10</b>	6	4	4	6	3	6	4	6	4	4	4	4	6	4	4	4	4	4	4	4	4	3	4	4	4	4	3
<b>SODIC</b>	<b>11</b>	3	3	4	3	3	3	4	1	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	3
<b>SHIFTING</b>	<b>12</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>ROCK DEB</b>	<b>13</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>OUTCROPS</b>	<b>14</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>DUNES</b>	<b>15</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>SALT/FLS</b>	<b>16</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>LAKES</b>	<b>17</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>ICE CAPS</b>	<b>18</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Note: 1 = 100% S1, 2 = 100% S2, 3 = 50% S1 and 50% S2, 4 = 100% NS, 5 = 50% S1 and 50% NS, 6 = 50% S2 and 50% NS

### FAO '74 SOIL PHASE RATINGS FOR GRAVITY IRRIGATION (at HIGH INPUT LEVEL)

Soil Phase		Crops																										
		wh	wr	dr	mz	by	sg	ry	pm	fx	wp	ca	sp	su	sb	pb	ch	cw	gn	sy	sf	rp	ct	ba	op	ol	al	gr
STONY	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
LITHIC	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PETRIC	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1
PETROCALCIC	4	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PETROGYPSIC	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6
PETROFERRIC	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
PHREATIC	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	1	1
FRAGIPAN	8	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1
DURIPAN	9	6	2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	1
SALINE	10	6	4	4	6	2	6	4	6	4	4	4	4	6	4	4	4	4	4	4	4	4	2	4	4	4	4	3
SODIC	11	2	3	4	2	2	2	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	4	4	4	3
SHIFTING	12	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ROCK DEB	13	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
OUTCROPS	14	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
DUNES	15	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SALT/FLS	16	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
LAKES	17	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ICE CAPS	18	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Note: 1 = 100% S1, 2 = 100% S2, 3 = 50% S1 and 50% S2, 4 = 100% NS, 5 = 50% S1 and 50% NS, 6 = 50% S2 and 50% NS