

FLORIDA DRAINAGE GUIDE



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Soil Conservation Service
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GUIDE--11/19/80

All Offices
Engineers
Soil Survey Party Leaders
Bob Johnson (A. Hyde & T. Calhoun)
Bob Craig
Ottie Johnson
Dick Wenberg - 30 copies

FLORIDA DRAINAGE GUIDE

Introduction

This guide contains a list of soils in Florida that need drainage for optimum agricultural production. Recommendations in this guide were prepared through the efforts of an interdisciplinary team of Soil Conservationist, Soil Scientist, Agronomist, Plant Material Specialist and Agricultural Engineers. Its primary purpose is to serve as a guide for Technicians in Soil and Water Conservation District Offices for soil and water conservation planning.

The guide is not intended to serve as a soil capability table nor for land use recommendations. Recommendations for the installation of various drainage practices to accomplish drainage for crops to be grown are given for each soil. Also provided are soil properties normally affecting the drainage of individual soil series. Drainage recommendations are not to be interpreted as rigid specifications. Adjustments should be made to meet specific on-farm locations or conditions where experience indicates these adjustments are desirable.

Appropriate practice standards and specification requirements are to be met in the installation of a practice. The Engineering Field Manual and Technical Reference Handbook should also be referred to for guidelines, procedures, and methodology for installation of practices.

Estimated Soil Properties

Individual soil properties are included to provide the user with the criteria upon which the drainage recommendations are based. The most important properties affecting drainage include:

1. Texture of major horizons.
2. Permeability of major horizons.
3. Depth of rock.
4. Flood hazard (frequency-duration).
5. Depth to water table.

The soils included in the Guide are those identified on a modern detailed soil survey which meet the current standards of the National Cooperative Soil Survey.

Drainage Recommendations

The following guidelines for each soil are in the drainage guide:

1. Land Slope (LND SLP). The land slopes for each soil phase that may require drainage are shown. Control of underground seepage on soil of greater slopes than shown through the use of subsurface interceptor drainage or diversion ditches will be required in some cases, but is not addressed in this guide.
2. Crop or Land Use. Major agricultural uses that could benefit from drainage are listed. For each use or crop to be grown, different drainage practices and guideline recommendations are given for consideration in solving the drainage problem.
3. Drainage Type (TYP). This column indicates the type of drainage recommended for the stated land use.

SDA - Surface Drainage, Field Ditch. These types of ditches function either as collection ditches and/or two-fold surface ditches to collect surface water and distribute subsurface irrigation water.

SDB - Surface Drainage, Main or Lateral. An open drainage ditch constructed to a designed size and grade. Does not include SDA surface drainage field ditches which are not designed for capacity.

SSD - Represents subsurface drain.

MOL - Represents a mole drain used to provide subsurface water control on organic soils. This includes drainage and irrigation. Mole drains are considered to be subsurface collection components of a drainage system.
4. Drainage Coefficient (DR. COF). For surface drainage, the numerical value of the "C" value for the Cypress Creek equation is given for SDB type ditches but not for the SDA type. For subsurface drainage, the design removal rate is stated in a fraction of an inch per 24 hours. For mole drains, there is no drainage coefficient shown.

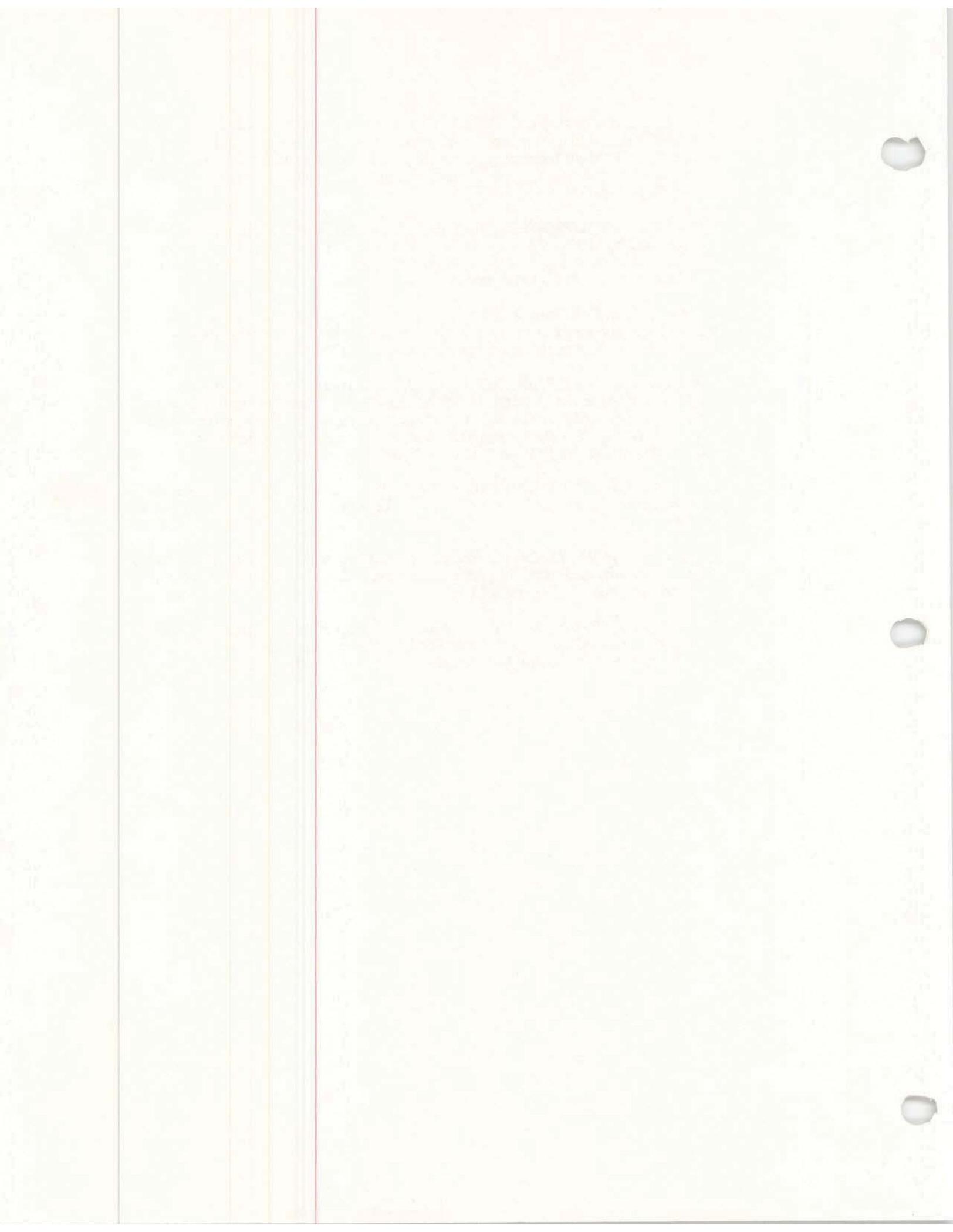
5. Side Slopes (Z). Side slopes are shown for surface ditches only. The "MIN" column represents the steepest or minimum slopes recommended. The "REC" column represents the recommended side slopes for most situations. These side slopes are compatible with the Technical Guides for these practices. The horizontal components of slope ratio are listed (0 represents vertical side slopes; 1 represents 1:1 side slopes; 1.5 represents 1½:1 side slopes; 3 represents 3:1 side slopes; 4 represents 4:1 side slopes).
6. Depth. The recommended depths for surface, subsurface and mole drains are presented in inches under minimum depth (MN) and maximum depth (MX) columns. The minimum depth represents the minimum drain depth recommended for the particular crop and soil. The maximum depth is not shown for open ditches as this is so variable due to different site conditions. The normal maximum depth needed for effective subsurface and mole drains is shown in the maximum depth column. These depths (MN or MX) are not intended to express depths on knolls or ridges through which a drain may flow.
7. Spacing. This is the recommended minimum (MN) and maximum (MX) distances for the spacing of drains. The recommended spacing is based on an effective depth (i.e., root zone) of 6 inches less than the drain depth. Spacings are not shown for surface drainage, Field Ditch (SDA); subsurface drains, mole drains and bedding systems.
8. Filter/Envelope (Needs). This column is used to denote the need of a filter or envelope material around the subsurface drain. Filters and envelopes are often provided to perform one of the following:
 - a. Prevent fine-grained materials in the surrounding soils from being carried into the drain by ground water.
 - b. Improve flow conditions in the area immediately surrounding the drain. (Normally use an envelope.)
 - c. Improve bedding conditions under the drain.

Notations made in this column related to filters and envelopes include:

- ALL - Indicates that protection from siltation hazard needs to be provided. A filter of any type can be utilized to provide this protection.
- ENVELOPE - Envelope is needed to either improve flow conditions or improve bedding.
- SAND-G - A sand-gravel filter is needed to reduce the accumulation of iron sludge and plugging of drains.
- THIN - Indicates that a filter is needed and that a Spun Nylon Filter Cloth or similar material will provide the protection from siltation.
- CHECK N - Denotes the need to check the soil to determine whether a filter or envelope will be required.
- NONE - Filter not needed.

9. Surface Treatment. This column shows different conservation practices that should be considered to mechanically form the land surface to provide the needed drainage. BEDDING, GRADING and SMOOTHING are practices used for improving surface drainage. LEVELING is used for those soils suited for subsurface irrigation; leveling the land surface will benefit both drainage and irrigation.
10. Additional notes or remarks have been included on some soils to warn of possible problems and/or to indicate acceptable procedures of practice application to solve drainage problems.
 - a. SOILS SUITABLE FOR SUBSURFACE IRRIGATION. Indicates a soil with favorable profile characteristics whereby an artificial water table can be built-up sufficiently close to ground surface without excessive water losses.
 - b. DIKE & PUMP NORMALLY REQUIRED. Indicates a lack of available gravity outlets. Soils are positioned on a watershed whereby inundation will occur from diffused surface flow, ponding or backwater during the regular growing season of crops.

- c. SPACING SUITABLE FOR SUBSURFACE IRRIGATION. Denotes spacing shown for this soil and practice is adequate and will serve as an effective subsurface irrigation system. Also, this note indicates soil is suitable for irrigation by one of the subsurface methods, open ditch or buried conduits.
- d. FOR SUBSURFACE IRRIGATION, REDUCE SPACING TO 40-60 FEET. Implies irrigation by subsurface means is suitable for a soil but spacing provided for drainage is excessive to control water tables within the limits needed for the crops to be grown.
- e. RANDOM DRAINAGE NORMALLY USED. Indicates that installing either surface or subsurface drains in low areas and on seepage breaks (where water accumulates) will provide satisfactory drainage.
- f. NORMALLY MOLE DRAINS ARE REPLACED EVERY 2 YEARS. Indicates the replacement of mole drains is vital in maintaining subsurface water control on organic soils. These soils being high in organic matter have a tendency to form organic sludges around the perimeter of mole drains and inhibit entrance of ground water.
- g. HIGH POTENTIAL FOR PLUGGING OF SUBSURFACE DRAINS BY IRON. This is an indication that this hazard should be considered in the drainage design.
- h. FLOOD SOILS WHEN FALLOW. Denotes soils have a potential for subsidence from oxidation and must be protected from unnecessary drainage when not in crop/agricultural production.
- i. DEEP SURFACE DRAINS NOT NORMALLY RECOMMENDED FOR WOODLAND. Implies soils will normally support commercial timber plantings provided seedlings are protected from surface water by bedding.



DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - ADAMSVILLE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-12	FS	S		6.0-20	>60
12-72	FS	S		6.0-20	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 2.0-3.5 MONTHS = JUN-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	80		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	36					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	24					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	79	162	ALL	
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPCING TO 40-60 FEET									

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FLORIDA

SERIES - ALAPAHA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-33	LS	S		6.0-20	>60
33-48	SL	SCL		0.6-2.0	
48-70	SCL			0.2-0.6	

FLOODING - - - - - (DURATION = BRIEF MONTHS = JAN-APR
 FREQUENCY = OCCASIONAL)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 1.0-2.0 MONTHS = DEC-MAY)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND				12	18	40	80		BEDDING
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	36					
0-2	PASTURE	25	3	4	18					
0-2	WOODLAND				6	18	8	24		BEDDING
DEEP SURFACE DRAINS NOT RECOMMENDED FOR WOODLAND										

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FLORIDA

SERIES - ALBANY

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-48	S	LS	FS	6.0-20	>60
48-56	SL			2.0-6.0	
56-88	SCL	SL	FSL	0.6-2.0	

FLOODING - - - - (DURATION = MONTHS =
FREQUENCY = RARE)

HIGH WATER TABLE - - - - (DEPTH-FT = 1.0-2.5 MONTHS = DEC-MAR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND				12	18	60	80		BEDDING
0-2	PASTURE				12	18	100	120		SMOOTH
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	36					
0-2	PASTURE	25	3	4	18					
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			36	48	90	189	ALL	

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FLORIDA

SERIES - ANCLOTE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-19	S	FS		6.0-20	>60
0-19	LS	LFS		6.0-20	
19-72	S	FS	LFS	6.0-20	

FLOODING - - - - (DURATION = V.LONG MONTHS = JUN-MAR
 FREQUENCY = NONE TO COMMON)
 HIGH WATER TABLE - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-MAR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRIMNT.
			Z	IN	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	80		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	PASTURE	25	3	4	18					
(SUB-SURFACE DRAIN)										
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									

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FLORIDA

SERIES - ANKONA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-38	S	FS		6.0-20	>60
38-48	S	FS	LS	<0.2	
48-57	SL	FSL	SCL	0.6-6.0	
57-80	S	FS	LFS	6.0-20	

FLOODING - - - - - (DURATION = V.LONG MONTHS = JUN-FEB
 FREQUENCY = NONE TO COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3	4	12	18	80	100		SMOOTH
-----	---------	--	---	---	----	----	----	-----	--	--------

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	PASTURE	25	3	4	18					
-----	---------	----	---	---	----	--	--	--	--	--

DIKE & PUMP NORMALLY REQUIRED
 SOILS SUITABLE FOR SUB-SURF IRRIGATION

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FLORIDA

SERIES - APALACHEE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA MOD TEXT MOD TEXT)	PERM IN/HR	BEDROCK IN
0-25	C	0.06-0.2	>60
25-60	C	0.06-0.2	

FLOODING - - - - - (DURATION = V.LONG MONTHS = JAN-APR
FREQUENCY = FREQUENT)

HIGH WATER TABLE - - - - - (DEPTH-FT = 0-2.0 MONTHS = DEC-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRTMNT.
	(SURFACE DRAINAGE - FIELD DITCH)						
0-2	PASTURE			12 18	80 120		SMOOTH
	(SURFACE DRAINAGE - MAIN OR LATERAL)						
0-2	PASTURE	25	1.5 2	18			
0-2	WOODLAND			6 12	8 24		BEDDING

DEEP SURF DRAINS NOT NORMALLY RECOMMENDED FOR WOODLAND

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FLORIDA

SERIES - ARDILLA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-15	SL	FSL	LS	2.0-6.0	>60
15-38	SCL			0.6-2.0	
38-60	SCL			0.2-0.6	

FLOODING - - - - (DURATION = MONTHS =
FREQUENCY = NONE)

HIGH WATER TABLE - - - - (DEPTH-FT = 1.0-2.0 MONTHS = NOV-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN		SPACING FT		FILTER	SURFACE TRIMNT.
				MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)									
0-2	CROPLAND			12	18	30	80		BEDDING
0-2	PASTURE			12	18	80	100		SMOOTH
(SURFACE DRAINAGE - MAIN OR LATERAL)									
0-2	CROPLAND	45	1.5	2	36				
0-2	PASTURE	25	3	4	18				
(SUB-SURFACE DRAIN)									
0-2	CROPLAND	1/2		30	42	40	86	ALL	

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FLORIDA

SERIES - BASINGER

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-18	S	FS		>20	>60
18-36	S	FS		>20	
36-60	S	FS		>20	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
	SPACING SUITABLE FOR SUB-SURF. IRRIGATION									
0-2	VEGETABLES		1.5	2	24	30	40	80		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	24					
	DIKE & PUMP NORMALLY REQUIRED									
(SUB-SURFACE DRAIN)										
0-2	VEGETABLES	1/2			24	30	93	152	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									
	DIKE & PUMP NORMALLY REQUIRED									

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FLORIDA

SERIES - BAYBORO

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD	TEXT	MOD TEXT		
0-14		FSL		2.0-6.0	>60
0-14		L	CL	0.6-2.0	
14-64		CL	SC C	0.06-0.2	

FLOODING - - - - - (DURATION = BRIEF MONTHS = DEC-MAR
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-0.5 MONTHS = DEC-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
0-2	(DRAIN) WOODLAND									BEDDING
	DEEP SURF. DRAINS NOT NORMALLY RECOMMENDED FOR WOODLAND									
	(SURFACE DRAINAGE - FIELD DITCH)									
0-2	CROPLAND				12	18	30	80		BEDDING
0-2	PASTURE		3	4	12	78	80	120		SMOOTH
	(SURFACE DRAINAGE - MAIN OR LATERAL)									
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
	(SUB-SURFACE DRAIN)									
0-2	CROPLAND	1/2			30	36	20	44	SAND-G	SMOOTH

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SERIES - BIBB

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-37	SL	L	SIL	0.6-2.0	>60
37-60	SL	L	SIL	0.6-2.0	

FLOODING - - - - - (DURATION = BRIEF MONTHS = DEC-MAY
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0.5-1.5 MONTHS = DEC-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND				12	18	60	80		BEDDING
0-2	PASTURE				12	18	80	120		
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
0-2	WOODLAND	10	1.5	2	30					BEDDING
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			30	36	26	41	SAND-G	SMOOTH

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FLORIDA

SERIES - BLADEN

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-14	FSL	SL		0.6-2.0	>60
0-14	L	SIL		0.6-2.0	
14-41	C	SC		0.06-0.2	
41-62	C	SC	CL	0.06-0.2	

FLOODING - - - - - (DURATION = LONG MONTHS = JAN-APR
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = DEC-MAY)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z		IN		FT			
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND				12	18	60	80		BEDDING
0-2	PASTURE		3	4	12	18	80	120		BEDDING
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
0-2	WOODLAND	10	1.5	2	30					BEDDING
DIKE & PUMP NORMALLY REQUIRED										
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			30	36	20	44	SAND-G	SMOOTH

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FLORIDA

SERIES - BLIGHTON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-26	S	LS	LFS	6.0-20	>60
26-30	SL	FSL		2.0-6.0	
30-45	SCL			0.2-0.6	
45-77	SCL	SC		0.2-0.6	
77-80	SR	SL	SCL	2.0-6.0	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		1.5	2	18	24	60	80		GRADE
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
0-2	VEGETABLES				18	24	40	60		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	36					BEDDING
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			36	48	63	117	SAND-G	BEDDING
0-2	CROPLAND	1/2			30	36	76	110	SAND-G	
0-2	VEGETABLES	1/2			24	30	75	114	ALL	BEDDING

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - BOARDMAN

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MUD TEXT	MUD TEXT	MUD TEXT		
0-16	S	LS	LFS	6.0-20	>60
16-22	LS	LFS	SL	0.6-2.0	
22-34	SCL			0.2-0.6	
34-45	SCL	SC		0.06-0.2	
45-56	SC	C		0.06-0.2	
56-68	C			0.06-0.2	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH		SPACING		FILTER	SURFACE TRTMNT.
				IN		FT			
				MIN	MAX	MIN	MAX		
	(SUB-SURFACE DRAIN)								
5-8	PASTURE			24				ALL	SMOOTH
	RANDOM DRAIN NORMALLY USED TO INTERCEPT SIDE HILL								
	SEEPAGE								
5-8	VEGETABLES			24				ALL	
	RANDOM DRAIN NORMALLY USED TO INTERCEPT SIDE HILL								
	SEEPAGE								

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - BOCA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-5	S	FS		6.0-20	24-40
5-28	S	FS		6.0-20	
28-36	SL	FSL	SCL	0.6-2.0	
36	UWB				

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	120		SMOOTH
	SPACING SUITABLE FOR SUB-SURF. IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	30					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	VEGETABLES	1/2			24	30	75	110	ALL	SMOOTH
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - BRADENTON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -) MOD TEXT MOD TEXT MOD TEXT	PERM IN/HR	BEDROCK IN
0-4	S FS	6.0-20	>60
4-10	S FS	6.0-20	
10-26	SL FSL LFS	0.6-2.0	
26-70	FS LFS FSL	0.6-6.0	

FLOODING - - - - - (DURATION = MONTHS =)
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH=FT = 0-1.0 MONTHS = JUN-DEC)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		
(SURFACE DRAINAGE - FIELD DITCH)							
0-2	PASTURE		3 4	12 18	80 100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
0-2	VEGETABLES			18 24	40 60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	CITRUS	45	1.5 2	36			BEDDING
0-2	PASTURE	25	3 4	18			
0-2	VEGETABLES	45	1.5 2	30			
(SUB-SURFACE DRAIN)							
0-2	CITRUS	3/4		36 48	48 93	ALL	BEDDING
0-2	VEGETABLES	1/2		24 30	50 78	NONE	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT						

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - BRIGHTON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH	(- - - - USDA TEXTURE - - - -)	PERM	BEDROCK
IN	MOD TEXT MOD TEXT MOD TEXT	IN/HR	IN
0-63	PEAT	6.0-20	>60

FLOODING - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)

HIGH WATER TABLE - - - - (DEPTH-FT = +1-1.0 MONTHS = JAN-DEC)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		
	(MOLE DRAIN)						
0-2	CROPLAND			30 36	10 12		SMOOTH
0-2	PASTURE			30 36	12 15		SMOOTH
0-2	VEGETABLES			30 36	10 12		SMOOTH

(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	CROPLAND	45	0 .5	48		330	
0-2	PASTURE	25	0 .5	36		660	
0-2	VEGETABLES	25	.5	48		330	

SOILS SUITABLE FOR SUB-SURF IRRIGATION
 NORMALLY MOLE DRAINS REPLACED EVERY 2 YEARS
 FLOOD SOILS WHEN FALLOW
 DIKE & PUMP NORMALLY REQUIRED

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - BROWARD

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-4	S	FS		6.0-20	20-40
4-26	S	FS		6.0-20	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 1.5-2.5 MONTHS = JUN-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
SPACING SUITABLE FOR SUB-SURF IRRIGATION										
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	30					BEDDING
0-2	VEGETABLES	45	1.5	2	24					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			24	30	61	100	ALL	BEDDING
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
FOR SUB-SURFACE IRRIGATION REDUCE SPACING 40-60 FT										

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FLORIDA

SERIES - BUSHNELL

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -) MOD TEXT	MOD TEXT	MOD TEXT	PERM IN/HR	BEDROCK IN
0-10	FS	LFS		6.0-20	24-40
10-35	SC	C		0.06-2.0	
35	UWB				

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = RARE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 1.5-3.0 MONTHS = JUL-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN	MAX	MIN	MAX

(SURFACE DRAINAGE - FIELD DITCH)

0-2	VEGETABLES		1.5	2	18	24	40	60	GRADE
SPACING SUITABLE FOR SUB-SURF IRRIGATION									

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5	2	30				BEDDING
0-2	VEGETABLES	45	1.5	2	24				

(SUB-SURFACE DRAIN)

0-2	VEGETABLES	1/2		24	30	55	83	ALL	
FOR SUB-SURF IRRIGATION REDUCE SPACING 40-60 FT									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - BYARS

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-13	SL	FSL	L	0.6-2.0	>60
0-13	SIL	SICL	CL	0.6-2.0	
13-73	C	CL	SC	0.06-0.2	

FLOODING - - - - - (DURATION = LONG MONTHS = DEC-MAR
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = NOV-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND				12	18	40	80		BEDDING
0-2	PASTURE		3	4	12	18	60	80		SMOOTH
0-2	VEGETABLES		1.5	2	18	24	30	40		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	1.5	2	18					
0-2	VEGETABLES	45	1.5	2	30					
0-2	WOODLAND	10	1.5	2	30					BEDDING
DIKE & PUMP NORMALLY REQUIRED										
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			30	48	20	44	SAND-G	
0-2	VEGETABLES	1/2			24	30	18	28	ALL	

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FLORIDA

SERIES - CANOVA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
9-0	MUCK	PEAT	MPT	6.0-20	>60
0-13	S	FS		6.0-20	
13-23	SL	FSL	SCL	0.6-6.0	
23-57	SCL			0.6-2.0	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2.0 MONTHS = JAN-DEC)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	PASTURE	25	3	4	18					
	DIKE & PUMP NORMALLY REQUIRED									
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	VEGETABLES	1/2			24	30	55	83	NONE	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - CANOVA

(----- ESTIMATED SOIL PROPERTIES -----)

DEPTH IN	(----- USDA TEXTURE -----)			PERM IN/HR	BEDROCK IN	
	MOD	TEXT	MOD TEXT			
9-0		MUCK	PEAT	MPT	6.0-20	>60
0-13		S	FS		6.0-20	
13-23		SL	FSL	SCL	0.6-6.0	
23-57		SCL			0.6-2.0	

FLOODING ----- (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE ----- (DEPTH-FT = +2.-0 MONTHS = JAN-DEC)

(----- RECOMMENDATIONS -----)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	PASTURE	25	3	4	18					
	DIKE & PUMP NORMALLY REQUIRED									
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	VEGETABLES	1/2			24	30	55	83	NONE	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									

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FLORIDA

SERIES - CHAIRES

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-28	S	FS		6.0-20	>60
28-54	S	FS	LFS	0.6-2.0	
54-68	SL	FSL	SCL	0.2-0.6	
68-80	SCL	SC		0.06-0.2	

FLOODING - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - (DEPTH-FT = 0-1.0 MONTHS = NOV-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		1.5	2	30	36	82	132		SMOOTH
0-2	PASTURE		3	4	12	18	80	100		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	36					
0-2	PASTURE	25	3	4	18					
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			36	48	110	186	CHECK-N	SMOOTH

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FLORIDA

SERIES - CHARLOTTE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-6	FS	S		6.0-20	>60
6-19	FS	S		6.0-20	
19-46	FS	S		6.0-20	
46-65	FS	S		6.0-20	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUL-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE				12	18	100	150		SMOOTH
	SPACINGS SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACINGS SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	48					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	0	30				
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	79	162	ALL	
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT.									

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FLORIDA

SERIES - CHIPLEY

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-6	S	FS		6.0-20	>60
6-77	S	FS		6.0-20	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = 2.0-3.0 MONTHS = JUN-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
	(SURFACE DRAINAGE - FIELD DITCH)									
0-2	CROPLAND		1.5	2	30	36	82	132		SMOOTH
	(SURFACE DRAINAGE - MAIN OR LATERAL)									
0-2	CROPLAND	45	1.5	2	36					
	(SUB-SURFACE DRAIN)									
0-2	CROPLAND	1/2			36	48	90	189	ALL	

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FLORIDA

SERIES - CHOBBE

(----- ESTIMATED SOIL PROPERTIES -----)

DEPTH IN	(----- USDA TEXTURE -----)			PERM IN/HR	BEDROCK IN
	MOD	TEXT	MOD TEXT		
0-7	LS	SL	FSL	2.0-6.0	>60
7-63	SCL			<0.2	
63-75	LS	LFS	FSL	0.6-6.0	

FLOODING ----- (DURATION = V.LONG
FREQUENCY = NONE TO FREQUENT) MONTHS = JUN-FEB
HIGH WATER TABLE ----- (DEPTH-FT = 0-1.0 MONTHS = JUN-FEB)

(----- RECOMMENDATIONS -----)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		GRADE
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	48					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
DIKE & PUMP NORMALLY REQUIRED										
0-2	(SUB-SURFACE DRAIN) VEGETABLES	1/2			24	30	23	34	CHECK-N	

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FLORIDA

SERIES - COPELAND

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-12	FS	LS	LFS	6.0-20	20-50
12-17	FS	LS	LFS	6.0-20	
17-25	SL	FSL	SCL	0.6-2.0	
25-31	MARL			0.6-6.0	
31	WB				

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2-1.0 MONTHS = JUL-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRIMNT.
			Z	IN	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	PASTURE	25	3	4	18					
	DIKE & PUMP REQUIRED									
0-2	VEGETABLES	45	1.5	2	30					

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FLORIDA

SERIES - COXVILLE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-11	FSL	SL	L	0.6-2.0	>60
11-72	CL	SC	C	0.2-0.6	
72-80	VAR				

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE TO RARE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-2.5 MONTHS = NOV-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		12	18	60	80				BEDDING
0-2	PASTURE		12	18	80	100				BEDDING
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
0-2	WOODLAND	10	1.5	2	30					BEDDING
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2	30	42	34	46	SAND-G			

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FLORIDA

SERIES - DANIA

(----- ESTIMATED SOIL PROPERTIES -----)

DEPTH IN	(----- USDA TEXTURE -----)						PERM IN/HR	BEDROCK IN
	MOD	TEXT	MOD	TEXT	MOD	TEXT		
0-14		MUCK					6.0-20	8-20
14-18		S		FS		LS	6.0-20	
18		UWB						

FLOODING ----- (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE ----- (DEPTH-FT = (1)-1.0 MONTHS = JUN-FEB)

(----- RECOMMENDATIONS -----)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
	(SURFACE DRAINAGE - FIELD DITCH)									
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	(SURFACE DRAINAGE - MAIN OR LATERAL)									
0-2	PASTURE	25	3	4	18					
	SOIL SUITABLE FOR SUB-SURF IRRIGATION									

DRAINAGE GUIDE RECOMMENDATIONS

11/02/79

FLORIDA

SERIES - DELKS

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-4	S	FS		6.0-20	>60
4-27	S	FS		6.0-20	
27-46	S	FS	LS	<0.2	
46-60	SC	C		0.06-0.2	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
0-2	VEGETABLES		1.5	2	18	24	40	60		
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	48					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			36	48	64	116	CHECK-N	
0-2	VEGETABLES	1/2			24	30	75	116	ALL	

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - DELRAY

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)						PERM IN/HR	BEDROCK IN
	MOD	TEXT	MOD	TEXT	MOD	TEXT		
0-18		FS		S		LS	6.0-20	>60
0-18	MK	FS					6.0-20	
18-46		FS		S			6.0-20	
46-60		SL		FSL		SCL	0.6-6.0	
60-75		LFS		LS			2.0-6.0	

FLOODING - - - - (DURATION = V.LONG) MONTHS = JUN-MAR

FREQUENCY = NONE TO COMMON)

HIGH WATER TABLE - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-MAR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRIMNT.
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(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3 4	12 18	80 120		SMOOTH
	SPACING SUITABLE FOR SUB SURF IRRIGATION						
0-2	VEGETABLES		1.5 2	18 24	40 60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5 2	42			BEDDING
0-2	PASTURE	25	3 4	18			
0-2	VEGETABLES	45	1.5 2	30			
	DIKE & PUMP NORMALLY REQUIRED						

(SUB-SURFACE DRAIN)

0-2	CITRUS	3/4		42 54	79 162	ALL	
0-2	VEGETABLES	1/2		24 30	75 122	ALL	
	FOR SUB-SURFACE IRRIGATION REDUCE SPACING TO 40-60 FT.						

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - DOROVAN

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -) MOD TEXT	PERM IN/HR	BEDROCK IN
0-3	MPT	0.6-2.0	>60
3-74	MUCK	0.6-2.0	
74-99	S LS L	6.0-20	

FLOODING - - - - - (DURATION = V.LONG) MONTHS = JAN-DEC
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +1-0.5 MONTHS = JAN-DEC)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
	(MOLE DRAIN)									
0-1	CROPLAND				30	36	10	12		SMOOTH
0-1	PASTURE				30	36	12	15		SMOOTH
0-1	VEGETABLES				30	36	10	12		SMOOTH

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-1	CROPLAND	45	0	.5	48	330
0-1	PASTURE	25	0	.5	36	
0-1	VEGETABLES	45	0	.5	48	330

SOILS SUITABLE FOR SUB-SURFACE IRRIGATION
 NORMALLY MOLE DRAINS REPLACED EVERY 2 YEARS
 FLOOD SOILS WHEN FALLOW
 DIKE & PUMP NORMALLY REQUIRED

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - DUNBAR

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-8	SL	FSL	L	2.0-6.0	>60
8-80	SC	CL	C	0.2-0.6	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 1.0-2.5 MONTHS = NOV-MAY)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND				12	18	60	80		SMOOTH
0-2	PASTURE		3	4	12	18	60	80		SMOOTH
0-2	VEGETABLES		1.5	2	24	30	30	40		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
0-2	WOODLAND	10	1.5	2	30					BEDDING
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			30	48	32	70	CHECK-N	
0-2	VEGETABLES	1/2			24	30	32	48	CHECK-N	

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - DUPLIN

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - MOD TEXT	USDA TEXTURE MOD TEXT	(- - - - MOD TEXT	PERM IN/HR	BEDROCK IN
0-8	SL	FSL	LS	2.0-6.0	>60
8-80	SC	CL	C	0.2-0.6	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = 2.0-3.5 MONTHS = DEC-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRTMNT.
(SURFACE DRAINAGE - FIELD DITCH)							
0-2	CROPLAND		3 4	18 24	80 100		SMOOTH
0-2	VEGETABLES		3 4	18 24	40 60		SMOOTH
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	CROPLAND	45	1.5 2	30			
0-2	VEGETABLES	45	1.5 2	30			

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - EATON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-30	LS	LFS		6.0-20	>60
0-30	S	FS		6.0-20	
30-33	SCL			0.06-0.2	
33-78	SC	C		0.06-0.2	
78-80	SC			0.2-0.6	

FLOODING - - - - (DURATION = MONTHS =

FREQUENCY = NONE)

HIGH WATER TABLE - - - - (DEPTH-FT = 0-1.0 MONTHS = JUL-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
0-2	VEGETABLES				18	24	40	60		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	ORCHARDLAND	45	1.5	2	30					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	ORCHARDLAND	3/4			36	48	65	120	ALL	
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
SPACING SUITABLE FOR SUB SURF IRRIGATION										
FOR SUB SURF IRRIGATION REDUCE SPACING TO 40-60 FT.										

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - MOD TEXT	USDA TEXTURE - - - -) MOD TEXT MOD TEXT	PERM IN/HR	BEDROCK IN
0-22	S	FS	6.0-20	>60
22-35	S	FS	0.6-6.0	
35-55	S	FS	6.0-20	
55-61	SL	FSL SCL	0.6-6.0	
61-84	S	LS LFS	2.0-6.0	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRTMNT.
(SURFACE DRAINAGE - FIELD DITCH)							
0-2	PASTURE		3 4	12 18	80 120		SMOOTH
0-2	VEGETABLES		1.5 2	18 24	40 60		GRADE
SPACING SUITABLE FOR SUB-SURF IRRIGATION							
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	CITRUS	45	1.5 2	48			BEDDING
0-2	PASTURE	25	3 4	18			
0-2	VEGETABLES	45	1.5 2	30			
(SUB-SURFACE DRAIN)							
0-2	CITRUS	3/4		42 54	70 150	SAND-G	
HIGH POTENTIAL FOR PLUGGING OF SUB-SURF DRAINS BY IRON							
0-2	VEGETABLES	1/2		24 30	75 122	ALL	
FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT. DIKE & PUMP NORMALLY REQUIRED							

Pasture
2" / 24 hrs
Citrus
4" / 24 hrs
1 1/2" for 2000 lbs/acre

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - ELLABELLE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	PERM IN/HR	BEDROCK IN
0-27	2.0-6.0	>60
27-72	0.6-2.0	

FLOODING - - - - (DURATION = V.LONG MONTHS = NOV-APR
 FREQUENCY = FREQUENT)
 HIGH WATER TABLE - - - - (DEPTH-FT = +1-0.5 MONTHS = NOV-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMT.
			MIN REC	MIN MAX	MIN MAX		
(SURFACE DRAINAGE - FIELD DITCH)							
0-2	PASTURE		3 4	12 18	60 80		SMOOTH GRADE
0-2	VEGETABLES			18 24	40 60		
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	PASTURE	25	3 4	18			
DIKE & PUMP NORMALLY REQUIRED							
0-2	VEGETABLES	45	1.5 2	30			
DIKE & PUMP NORMALLY REQUIRED							
(SUB-SURFACE DRAIN)							
0-2	VEGETABLES	1/2		24 30	42 68	NONE	

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - ELRED

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - MOD TEXT	USDA TEXTURE - - - -) MOD TEXT MOD TEXT MOD TEXT	PERM IN/HR	BEDROCK IN
0-16	CS	S FS	6.3-20	
16-33	S	FS	6.3-20	
33-48	LS	SL FSL	.63-2.0	
48-62	S	FS	6.3-20	

FLOODING - - - - - (DURATION = MONTHS =)
 FREQUENCY =)
 HIGH WATER TABLE - - - - - (DEPTH-FT = MONTHS =)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3 4	12 18	80 120		SMOOTH
0-2	VEGETABLES		1.5 2	18 24	40 60		GRADE

SPACING SUITABLE FOR SUB-SURFACE IRRIGATION

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5 2	42			BEDDING
0-2	PASTURE	25	3 4	18			

DIKE & PUMP NORMALLY REQUIRED

0-2	VEGETABLES	45	1.5 2	30			
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(SUB-SURFACE DRAIN)

0-2	CITRUS	3/4		42 54	62 127	CHECK N	
0-2	VEGETABLES	1/2		24 30	75 122	CHECK N	

FOR SUB SURF IRRIGATION REDUCE SPACINGS TO 40-60 FT.

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - EMERALDA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-6	FS	LFS	LS	6.0-20	>60
6-11	FS	LFS	LS	6.0-20	
11-56	SC	C		<0.2	
56-66	SC	C		<0.2	

FLOODING - - - - - (DURATION = LONG MONTHS = JUN-FEB
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
				MIN	MAX	MIN	MAX		
	(SURFACE DRAINAGE - FIELD DITCH)								
0-2	PASTURE			12	18	60	100		SMOOTH
	(SURFACE DRAINAGE - MAIN OR LATERAL)								
0-2	PASTURE	25	3 4	18					
	DIKE & PUMP NORMALLY REQUIRED								

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - ESCAMBIA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD	TEXT	MOD TEXT		
0-13		FSL	VFSL SL	2.0-6.0	>60
0-13		L	SIL	2.0-6.0	
13-35		FSL	L SIL	0.6-2.0	
35-72		FSL	L SIL	0.06-0.6	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 1.5-2.5 MONTHS = DEC-MAR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	IN	MAX	FT	MIN MAX		
	(SURFACE DRAINAGE - MAIN OR LATERAL)									
0-2	CROPLAND	45	1.5	2	36					SMOOTH
0-2	(SUB-SURFACE DRAIN) CROPLAND	1/2			30	36	35	54	ALL	

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - EULONIA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-13	LS	LFS		6.0-20	>60
0-13	SL	FSL		2.0-6.0	
13-48	SC	C		0.2-0.6	
48-80	SCL	SL		0.6-2.0	

FLOODING - - - - - (DURATION = MONTHS =)
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 1.5-3.5 MONTHS = DEC-MAY)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	REC	IN	FT	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		1.5	2	12	18	60	80		GRADE
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - EUREKA

(----- ESTIMATED SOIL PROPERTIES -----)

DEPTH IN	(----- USDA TEXTURE -----)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-11	LFS	FS		6.0-20	>60
11-72	SC	SCL	C	<0.2	

FLOODING ----- (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE ----- (DEPTH-FT = 0-1.0 MONTHS = JUN-NOV)

(----- RECOMMENDATIONS -----)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		1.5	2	18	24	60	80		GRADE
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
	DIKE & PUMP NORMALLY REQUIRED									
0-2	VEGETABLES	45	1.5	2	24					
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			30	42	48	105	CHECK	N
0-2	VEGETABLES	1/2			24	30	53	72	CHECK	N

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - FARMTON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-7	FS	S		6.0-20	>60
7-34	FS	S		6.0-20	
34-50	FS	S		0.6-2.0	
50-80	FSL	SL	SCL	0.6-2.0	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-F1 = 0-1.0 MONTHS = JUN-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		SMOOTH
	SPACING SUITABLE FOR SUBSURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	48					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	74	135	SAND-G	
	HIGH POTENTIAL FOR PLUGGING OF SUB-SURF DRAINS BY IRON									
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - FELDA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-22	S	FS		6.0-20	>60
22-32	SL	FSL	SCL	0.6-6.0	
32-60	S	FS	LS	6.0-20	

FLOODING - - - - - (DURATION = V.LONG MONTHS = JUL-FEB
 FREQUENCY = NONE TO COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2-1.0 MONTHS = JUL-MAR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE	4	3	4	12	18	8	100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	SUGARCANE		1.5	2	24	30	60	80		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB SURF IRRIGATION									

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5	2	48					HEDGING
0-2	PASTURE	25	3	4	18					
	DIKE & PUMP NORMALLY REQUIRED									
0-2	SUGARCANE	25	1.5	2	42					
0-2	VEGETABLES	45	1.5	2	30					

(SUB-SURFACE DRAIN)

0-2	CITRUS	3/4			42	54	70	150	ALL	
0-2	SUGARCANE	1/2			24	30	72	110	ALL	
0-2	VEGETABLES	1/2			24	30	72	110	ALL	

FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT.

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - FELLOWSHIP

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -) MOD TEXT	MOD TEXT	MOD TEXT	PERM IN/HR	BEDROCK IN
0-11	LS	LFS	SL	2.0-6.0	>60
11-18	SL			0.6-2.0	
18-25	SCL	SC		0.06-0.2	
25-42	SC	C		>0.06	
42-80	C			>0.06	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 0.5-2.0 MONTHS = JUL-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRIMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
2-5	PASTURE		3	4	12	18	60	100		SMOOTH
(SUB-SURFACE DRAIN)										
2-5	ORCHARDLAND					24			CHECK=N	
	RANDOM DRAIN NORMALLY USED									
2-5	PASTURE					24			ALL	
	RANDOM DRAIN NORMALLY USED									
2-5	VEGETABLES					24			ALL	
	RANDOM DRAIN NORMALLY USED									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - FLEMINGTON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-9	LS	LFS	FSL	2.0-20	>60
9-27	SC	C		<0.06	
27-53	SC	C		<0.06	
53-75	C			<0.06	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-2.5 MONTHS = JUN-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRIMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	CROPLAND				12	18	60	80		GRADE
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CROPLAND	45	1.5	2	30					
0-2	ORCHARDLAND	45	1.5	2	30					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	30					

(SUB-SURFACE DRAIN)

0-2	CROPLAND	1/2			30	42	38	70	CHECK-N	
0-2	ORCHARDLAND	3/4			30	42	30	57	CHECK N	
2-5	ORCHARDLAND				24				SAND-G	
	RANDOM DRAIN NORMALLY USED									
2-5	PASTURE				24				SAND-G	
	RANDOM DRAIN NORMALLY USED									
0-2	VEGETABLES	1/2			24	30	40	60	CHECK N	

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - FLORIDANA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -) MOD TEXT	MOD TEXT	MOD TEXT	PERM IN/HR	BEDROCK IN
0-12	FS	S		6.0-20	>60
12-29	FS	S		6.0-20	
29-62	SL	FSL	SCL	<0.2	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		
(SURFACE DRAINAGE - FIELD DITCH)							
0-2	PASTURE		3 4	12 18	80 100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
0-2	VEGETABLES		1.5 2	18 24	40 60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	CITRUS	45	1.5 2	42			BEDDING
0-2	PASTURE	25	3 4	18			
	DIKE & PUMP NORMALLY REQUIRED						
0-2	VEGETABLES	45	1.5 2	36			
(SUB-SURFACE DRAIN)							
0-2	CITRUS	3/4		42 54	70 127	ALL	
0-2	VEGETABLES	1/2		24 30	75 122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT						

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - FORT DRUM

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-5	S	FS		6.0-20	>60
5-17	S	FS		6.0-20	
17-25	FSL	LFS		0.6-2.0	
25-70	S	FS		6.0-20	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 1.0-3.5 MONTHS = JUN-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	42					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	36					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	69	142	ALL	
0-2	VEGETABLES	1/2			24	30	64	110	ALL	
	FOR SUB-SURFACE IRRIGATION REDUCE SPACING TO 40-60 FT									

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FLORIDA

SERIES - GENTRY

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOI TEXT	MUD TEXT		
0-24	S		FS	6.0-20	>60
24-64	SL		FSL	<0.2	
64-80	S		LFS	0.6-2.0	

FLOODING - - - - (DURATION = V.LONG MONTHS = JUN-SEP
 FREQUENCY = COMMON)
 HIGH WATER TABLE - - - - (DEPTH-FT = +2-2.0 MONTHS = JUN-JAN)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3	4	12	18	80	100		SMOOTH
-----	---------	--	---	---	----	----	----	-----	--	--------

SPACING SUITABLE FOR SUR-SURF IRRIGATION

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	PASTURE	25	3	4	18					
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DIKE & PUMP NORMALLY REQUIRED

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FLORIDA

SERIES - GRADY

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-5	L	SL	CL	0.6-2.0	>60
5-11	CL	SCL	L	0.2-0.6	
11-62	C	SC		0.06-0.2	

FLOODING - - - - - (DURATION = V.LONG MONTHS = DEC-JUN
 FREQUENCY = FREQUENT)
 HIGH WATER TABLE - - - - - (DEPTH-FT = (2)-1.0 MONTHS = DEC-JUN)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		1.5	2	24	30	60	80		GRADE
0-2	PASTURE		3	4	12	18	80	100		SMOOTH

(SURFACE DRAINAGE - MAIN OR LATERAL)
 0-2 CROPLAND 45 1.5 2 36
 0-2 PASTURE 25 3 4 18
 DIKE & PUMP NORMALLY REQUIRED

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - HALLANDALE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MUD TEXT	MOD TEXT		
0-4	FS		S	6.0-20	>50
4-10	FS		S	6.0-20	
10-14	FS		S	6.0-20	
14-16	FS		S	6.0-20	
16	WB			6.0-20	

FLOODING - - - - - (DURATION = BRIEF MONTHS = JUN-OCT
 FREQUENCY = FREQUENT)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-1	PASTURE		3	4	12	18	60	80		SMOOTH
SPACING SUITABLE FOR SUB-SURF IRRIGATION										
0-2	VEGETABLES		1.5	2	12	18	20	40		SMOOTH
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	36					BEDDING
0-1	PASTURE	25	3	4	18					
DIKE & PUMP NORMALLY REQUIRED										
0-2	VEGETABLES	45	1.5	2	30					
SOILS SUITABLE FOR SUB-SURFACE IRRIGATION										

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - HILOLO

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-7	S	FS		6.0-20	>60
0-7	LS	LFS		0.6-20	
7-12	SL	FSL	SCL	0.2-2.0	
12-28		SCL		0.2-2.0	
28-53	SL	FSL	SCL	0.2-2.0	
53-80	LS	LFS	FSL	<0.2	

FLOODING - - - - - (DURATION = MONTHS =

FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3 4	12 18	60 80		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
0-2	VEGETABLES		1.5 2	18 24	40 60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5 2	42			REDDING
0-2	PASTURE	25	3 4	18			
0-2	VEGETABLES	45	1.5 2	36			

(SUB-SURFACE DRAIN)

0-2	CITRUS	3/4		42 54	38 75	CHECK N	
0-2	VEGETABLES	1/2		24 30	42 60	CHECK-N	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 30-40 FT						

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - HOLOPAW

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-43	S	FS		6.0-20	>60
43-65	SL	FSL	SCL	2.0-6.0	
65-75	LS	LFS		6.0-20	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRT.MNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	36					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	36					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	79	162	ALL	
0-2	VEGETABLES	1/2			24	30	75	122	ALL	

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FLORIDA

SERIES - HONTON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-60	MUCK			6.0-20	>60
60-65	MK S	S		6.0-20	

FLOODING - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - (DEPTH-FT = +2-1.0 MONTHS = JAN-DEC)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN		SPACING FT		FILTER	SURFACE TRIMNT.
				MIN	MAX	MIN	MAX		
	(MOLE DRAIN)								
0-2	PASTURE			30	36	12	15		SMOOTH
0-2	VEGETABLES			30	36	10	12		SMOOTH

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	PASTURE	25	0 .5	36	660
0-2	VEGETABLES	45	0 .5	48	330

SOILS SUITABLE FOR SUB-SURF IRRIGATION
 NORMALLY MOLE DRAINS REPLACED EVERY 2 YEARS
 DIKE & PUMP NORMALLY REQUIRED
 FLOOD SOILS WHEN FALLOW

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - IMMOKALEE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-6	FS	S		6.0-20	>60
6-35	FS	S		6.0-20	
35-54	FS	S		0.6-2.0	
54-72	FS	S		6.0-20	

FLOODING - - - - - (DURATION = V.LONG MONTHS = JUN-FEB
 FREQUENCY = NONE TO COMMON)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUR-SURF IRRIGATION									
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	48					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	36					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	78	135	SAND-G	
	HIGH POTENTIAL FOR PLUGGING OF SUB-SURF DRAINS BY IRON									
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - JOHNS

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-15	LS	SL		2.0-6.0	>60
15-32	SCL	SL		0.6-2.0	
32-60	S	LS		6.0-20	

FLOODING - - - - (DURATION = MONTHS =
 FREQUENCY = NONE TO RARE)
 HIGH WATER TABLE - - - - (DEPTH-FT = 1.5-3.0 MONTHS = NOV-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z		IN	MAX	FT	MAX		
			MIN	REC	MIN	MAX	MIN	MAX		
	(SURFACE DRAINAGE - FIELD DITCH)									
0-2	CROPLAND		1.5	2	24	30	60	80		GRADE
	(SURFACE DRAINAGE - MAIN OR LATERAL)									
0-2	CROPLAND	.45	1.5	2	42					
	(SUB-SURFACE DRAIN)									
0-2	CROPLAND	1/2			36	48	48	128	ALL	SMOOTH

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FLORIDA

SERIES - JUMPER

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -) MOD TEXT MOD TEXT MOD TEXT	PERM IN/HR	BEDROCK IN
0-29	S FS	6.0-20	>60
0-29	LS LFS	6.0-20	
29-35	SCL SL	2.0-6.0	
35-69	SCL	0.6-2.0	
69-80	SR LS C	0.6-2.0	

FLOODING - - - - - (DURATION = - - - - - MONTHS =

FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = 2.0-4.0 MONTHS = JUL-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRTMNT.
(SURFACE DRAINAGE - FIELD DITCH)							
0-2	CROPLAND		1.5 2	18 24	60 80		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	CITRUS	45	1.5 2	42			BEDDING
0-2	CROPLAND	45	1.5 2	36			
0-2	ORCHARDLAND	45	1.5 2	42			BEDDING
2-5	PASTURE		3 4	18			SMOOTH
RANDOM DRAIN NORMALLY USED							
(SUB-SURFACE DRAIN)							
0-2	CITRUS	3/4		42 54	62 115	ALL	
0-2	CROPLAND	1/2		36 48	90 130	CHECK-N	
0-2	ORCHARDLAND	3/4		42 54	78 142	CHECK-N	

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FLORIDA

SERIES - JUPITER

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-11	S	FS		6.0-20	8-20
11-14	S	FS		6.0-20	
14	WB				

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRIMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-1	PASTURE		3	4	12	15	60	80		SMOOTH
0-1	VEGETABLES		1.5	2	12	18	20	40		

SOILS SUITABLE FOR SUB-SURF IRRIGATION
DIKE & PUMP NORMALLY REQUIRED

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-1	CITRUS	45	1.5	2	36					BEDDING
0-1	PASTURE	25	3	4	15					

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - KALIGA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -) MOD TEXT	MOD TEXT	MOD TEXT	PEHM IN/HR	BEDROCK IN
0-26	MUCK			6.0-20	>60
26-37	L	FSL	LS	0.6-6.0	
37-65	SC	C	SCL	<0.2	
65-80	FSL	SL	LS	2.0-20	

FLOODING - - - - - (DURATION = MONTHS =)
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = +2-0 MONTHS = JUN-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		
(SURFACE DRAINAGE - FIELD DITCH)							
0-1	PASTURE		3 4	18 24	80 100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
0-1	VEGETABLES		1.5 2	24 30	40 60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-1	PASTURE	25	3 4	30			
	DIKE & PUMP NORMALLY REQUIRED						
0-1	VEGETABLES	45	1.5 2	36			
(SUB-SURFACE DRAIN)							
0-1	VEGETABLES	1/2		24 30	75 111	CHECK-N	

DRAINAGE GUIDE RECOMMENDATIONS

11/02/79

FLORIDA

SERIES - KANAPAHA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-48	S	FS		6.0-20	>60
48-55	SL	SCL		0.6-2.0	
55-70	SCL	SC	SL	0.2-0.6	
70-80	SCL	SL		0.2-0.6	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUL-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH IN		SPACING FT		FILTER	SURFACE TRIMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3	4	12	18	80	100		SMOOTH
	SPACING SUITABLE FOR SUB SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5	2	42					BEDDING
0-2	ORCHARDLAND	45	1.5	2	36					BEDDING
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	36					

(SUB-SURFACE DRAIN)

0-2	CITRUS	3/4			42	54	79	126	ALL	
0-2	ORCHARDLAND	3/4			36	48	74	124	ALL	
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LAUDERHILL

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -) MOD TEXT MOD TEXT MOD TEXT	PERM IN/HR	BEDROCK IN
0-31	MUCK	6.0-20	20-40
31	UWB		

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = (1)-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRTMNT.
(MOLE DRAIN)							
0-2	PASTURE			18 30	10 12		SMOOTH
0-2	SUGARCANE			18 30	10 12		SMOOTH
0-2	VEGETABLES			18 30	10 12		SMOOTH

(SURFACE DRAINAGE - MAIN OR LATERAL)							
0-2	PASTURE	25	0 .5	36	660		
0-2	SUGARCANE	25	0 .5	36	330		
0-2	VEGETABLES	45	0 .5	36			

SOILS SUITABLE FOR SUB-SURF IRRIGATION
NORMALLY MOLE DRAINS REPLACED EVERY YEAR
DIKE & PUMP NORMALLY REQUIRED
FLOOD SOILS WHEN FALLOW

ncs 3/10/87

DRAINAGE GUIDE RECOMMENDATIONS

11/02/79

FLORIDA

SERIES - LAWNWOOD

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -) MOD TEXT	MOD TEXT	MOD TEXT	PERM IN/HR	BEDROCK IN
0-3	S	FS		>6.0	>60
3-22	S	FS		>6.0	
22-29	S	FS	LS	<0.2	
29-80	S	FS		0.6-6.0	

FLOODING - - - - - (DURATION = MONTHS =

FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = +2-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z	DEPTH IN	SPACING FT	FILTER	SURFACE TRTMNT.
			MIN REC	MIN MAX	MIN MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3	4	12	18	80	100		SMOOTH
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE

SPACING SUITABLE FOR SUB-SURF IRRIGATION

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CITRUS	45	1.5	2	42					BEDDING
0-2	PASTURE	25	3	4	18					

DIKE & PUMP NORMALLY REQUIRED

0-2 VEGETABLES 45 1.5 2 36

(SUB-SURFACE DRAIN)

0-2	CITRUS	3/4			42	54	51	92	ALL
0-2	VEGETABLES	1/2			24	30	51	75	ALL

FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LEAF

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-9	SIL	L	VFSL	0.06-0.2	>60
9-72	SICL	SIC	C	<0.06	

FLOODING - - - - - (DURATION = BRIEF
FREQUENCY = RARE TO COMMON) MONTHS = JAN-APR
HIGH WATER TABLE - - - - - (DEPTH-FT = 0.5-1.5 MONTHS = JAN-APR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRIMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	CROPLAND		1.5	2	24	30	80	120		GRADE
0-2	PASTURE		3	4	12	18	80	100		SMOOTH

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CROPLAND	45	1.5	2	30					
0-2	PASTURE	25	3	4	18					
0-2	WOODLAND	10	1.5	2	30					

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LEEFIELD

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-23	LS	S		6.0-20	>60
23-33	SL	SCL		0.6-2.0	
33-75	SL	SCL		0.2-0.6	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH=FT = 1.5-2.5 MONTHS = DEC-MAR)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH		SPACING		FILTER	SURFACE TRTMNT.
			Z		IN		FT			
			MIN	REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)
0-2 CROPLAND 1.5 2 24 30 100 150 BEDDING

(SURFACE DRAINAGE - MAIN OR LATERAL)
0-2 CROPLAND 45 1.5 2 30

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LEON

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-15	S	FS		6.0-20	>60
15-30	S	FS		0.6-6.0	
30-80	S	FS		>20	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)

HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRT.MNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	CROPLAND		1.5	2	24	30	60	80		GRADE
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
			SPACING SUITABLE FOR SUB SURF IRRIGATION							
0-2	VEGETABLES				18	24	40	60		GRADE
			SPACING SUITABLE FOR SUB-SURF IRRIGATION							
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CROPLAND	45	1.5	2	36					
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	36					
(SUB-SURFACE DRAIN)										
0-2	CROPLAND	1/2			36	48	75	165	SAND-G	
			HIGH POTENTIAL FOR PLUGGING OF SUB-SURF DRAINS BY IRON.							
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
			FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT.							

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LOCHLUOSA

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-28	S	FS	LS	6.0-20	>60
28-32	FSL	SL	LS	2.0-6.0	
32-57	SCL	SL		0.6-2.0	
57-69	SC	SCL		0.6-2.0	
69-75	SCL	SL		0.6-2.0	

FLOODING - - - - - (DURATION = MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - - (DEPTH-FT = 2.5-5.0 MONTHS = JUL-OCT)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE		DEPTH IN		SPACING FT		FILTER	SURFACE TRIMNT.
			Z	MIN REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
2-5	PASTURE		3	4	18					SMOOTH
RANDOM DRAIN NORMALLY USED										
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	CITRUS	45	1.5	2	42					BEDDING
0-2	ORCHARDLAND	45	1.5	2	42					BEDDING
0-2	VEGETABLES		1.5	2	36					
(SUB-SURFACE DRAIN)										
0-2	CITRUS	3/4			42	54	64	119	ALL	
0-2	ORCHARDLAND	3/4			36	48	65	120	ALL	
0-2	VEGETABLES	1/2			24	30	75	114	ALL	

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LOKOSEE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -)			PERM IN/HR	BEDROCK IN
	MOD TEXT	MOD TEXT	MOD TEXT		
0-27	S	FS		6.0-20	>60
27-35	S	FS		6.0-20	
35-43	S	FS		0.6-6.0	
43-49	S	FS		6.0-20	
49-57	SL	FSL	SCL	0.6-6.0	

FLOODING - - - - (DURATION = 0 MONTHS =
 FREQUENCY = NONE)
 HIGH WATER TABLE - - - - (DEPTH-FT = 0-1.0 MONTHS = JUL-NOV)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		
(SURFACE DRAINAGE - FIELD DITCH)										
0-2	PASTURE		3	4	12	18	100	120		SMOOTH
SPACING SUITABLE FOR SUB-SURF IRRIGATION										
(SURFACE DRAINAGE - MAIN OR LATERAL)										
0-2	PASTURE	25	3	4	18					

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LYNN HAVEN

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - - USDA TEXTURE - - - - -) MOD TEXT MOD TEXT MOD TEXT			PERM IN/HR	BEDROCK IN
0-16	S	FS		6.0-20	>60
16-30	S	FS		0.6-6.0	
30-75	S	FS		>20	

FLOODING - - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - - (DEPTH-FT = 0-1.0 MONTHS = JUN-FEB)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z		DEPTH IN		SPACING FT		FILTER	SURFACE TRTMNT.
			MIN	REC	MIN	MAX	MIN	MAX		

(SURFACE DRAINAGE - FIELD DITCH)

0-2	CROPLAND		1.5	2	24	30	60	80		GRADE
0-2	PASTURE		3	4	12	18	100	150		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									
0-2	VEGETABLES		1.5	2	18	24	40	60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION									

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	CROPLAND	45	1.5	2	36					
0-2	PASTURE	25	3	4	18					
0-2	VEGETABLES	45	1.5	2	36					

(SUB-SURFACE DRAIN)

0-2	CROPLAND	1/2			36	48	90	189	SAND-G	
	HIGH POTENTIAL FOR PLUGGING OF SUB-SURF DRAINS BY IRON									
0-2	VEGETABLES	1/2			24	30	75	122	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60 FT.									

DRAINAGE GUIDE RECOMMENDATIONS

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FLORIDA

SERIES - LYNNE

(- - - - - ESTIMATED SOIL PROPERTIES - - - - -)

DEPTH IN	(- - - - USDA TEXTURE - - - -) MOD TEXT MOD TEXT MOD TEXT	PERM IN/HR	BEDROCK IN
0-6	S FS	6.0-20	>60
6-20	S FS	6.0-20	
20-34	S FS LS	0.6-2.0	
34-38	S FS	6.0-20	
38-43	SC S CL	0.2-2.0	
43-67	SC	0.2-0.6	

FLOODING - - - - (DURATION = MONTHS =
FREQUENCY = NONE)
HIGH WATER TABLE - - - - (DEPTH-FT = 0-1.0 MONTHS = JUL-SEP)

(- - - - - RECOMMENDATIONS - - - - -)

AVG. LAND SLOPE	CROP--LANDUSE	DRAIN COEF.	SIDESLOPE Z MIN REC	DEPTH IN MIN MAX	SPACING FT MIN MAX	FILTER	SURFACE TRTMNT.
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(SURFACE DRAINAGE - FIELD DITCH)

0-2	PASTURE		3 4	12 18	80 100		SMOOTH
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						
0-2	VEGETABLES		1.5 2	18 24	40 60		GRADE
	SPACING SUITABLE FOR SUB-SURF IRRIGATION						

(SURFACE DRAINAGE - MAIN OR LATERAL)

0-2	PASTURE	25	3 4	18			
0-2	VEGETABLES	45	1.5 2	36			

(SUB-SURFACE DRAIN)

0-2	VEGETABLES	1/2		24 30	68 102	ALL	
	FOR SUB-SURF IRRIGATION REDUCE SPACING TO 40-60						