Appendix C

NAME: _____ POSITION: Mobile Irrigation Lab Team Leader LOCATION: _____ DATE: _____

SUBJECT	REFERENCE MATERIAL	TRAINING METHODS	PROFICIENCY LEVEL		SELECTED METHODS & DATE SCHEDULED	DATE COMPLETED	COMMENTS
			PRESENT	REQUIRED			
I. Mobile Irrigation Lab Handbook	Updated MIL Handbook	OJT, Self Study (SS)					
1. Irrigation Conservation Committee (ICC) Bylaws				5			
2. ICC Annual Plan of Work				5			
3. Quaterly Reporting Format	Agreement between MIL and Funding Entity	OJT, Funding Entity		5			
4. Reporting Method and Procedures	Agreement between MIL and Funding Entity	OJT, Funding Entity		5			
II. NRCS Directive System	Individual Manuals & Handbooks	OJT, SS					
A. Field Office Technical Guide	eFOTG, Sections I, II, III, IV, V			3			
B. Engineering Field Handbook	EFH Part 650, Chapter 1, Florida Supplement			3			
C. National Irrigation Guide Florida Supplement	NEH Part 652, Irrigation Guide Florida Supplement			4			
III. Federal, State, & Local Laws	Individual Laws & Regulations	OJT, SS					
B. Florida				3			
1. Pesticide & Chemigation Regulations	FAC Chapter 40			3			
2. Watering Restrictions issued by Water Management District				3			
3. Role of Water Management Districts in water conservation	WMD Rules, Web Site	OJT, SS					
C. Local				3			
1. Bylaws and Ordinances				3			
2. Regulations				3			
3. Watering Restrictions issued by Local Municipalities	Local rules and regulations	OJT		3			
IV. NRCS Programs	NRCS Public Affairs new releases	OJT, SS, DC					
A. EQIP	Conservation Programs Manual Title 440, Part 515 EQIP			2			
V. Basic Technical Skills							
A. Mathematic Computation	NEH Part 652, Irrigation Guide	OJT, SS, Workshops		5			
1. Understanding Typical Units of Measure Used in Irrigation	Textbooks	IWM Course		5			
2. Unit Conversion				5			
3. Basic Algebra				5			
4. Measuring Horizontal Distance				5			
VI. Soils							
A. NRCS Web Soil Survey	http://websoilsurvey.nrcs.usda.gov/app/	OJT, SS		3			
B. Understanding the Soil Survey Report	NRCS Web Soil Survey			4			
1. Physical Soil Properties	NEH-623 (Formally NEH 15); Irrigation Guide	OJT, SS, Workshops		4			
2. USDA textural system				4			
3. Soil - Water Relationships				4			

	4. Calculation of Available Water Capacity	NEH 652 Irrigation Guide			4		
VII.	**Plant Sciences**						
A.	**Plant Growth Characteristics for Florida Crops**	NEH-15 (NEH 623); Irrigation Guide	OJT, SS, Workshop		4		
	1. Rooting Depth	Florida Irrigator's Guide			4		
	2. Seasonal & Peak ET Rates				4		
	3. Effect of Climatic Factors				4		
	a. Florida Automated Weather Network	http://fawn.ifas.ufl.edu/	OJT. SS		4		
	4. Plant-Soil-Water Relationships				4		
	5. Critical Crop Stage Concepts				5		
B.	**Irrigation Frequency**				5		
C.	**Maximum Allowable Depletion**				5		
D.	**Root Zone Depths**				5		
G.	**Crop Rotation**				5		
H.	**Irrigation Requirements**				5		
	1. Factors affecting irrigation efficiency	NEH 652 Irrigation Guide					
	2. Climatic Zones of Florida				5		
	3 Irrigation Water Requirements for Florida Crops				5		
I.	**Auxiallary Water Uses**		OJT, SS		4		
	1. Frost Protection				4		
VIIII.	**Farm Distribution Components**	NEH 652 Irrigation Guide	OJT, SS, Workshops				
A.	**Pipelines**	The Florida Irrigator's Guide			5		
	1. Safety Devices	NEH-623 (Formally NEH 15); Irrigation Guide			5		
C.	**Water Measurement**				5		
	a. Pipeline Flow				5		
	(2) Flow meters				5		
D.	**Pumping Plants**				5		
	a. Motor				5		
	(1) Electric				5		
	(2) Diesel				5		
	b. Pump				5		
	(1) Centrifugal				5		
	(2) PTO				5		
	(3) Vertical Turbine				5		
	(4) Submersible				5		
	c. Check Valve				5		
	d. Pressure Gauge				5		
	e. Filration				5		
E.	**Water Sources**				5		
	1. Well				5		
	2. Pond				5		
	3. Canal				5		
X.	**Water Management**						
A.	**Irrigation**				*5*		
	1. Irrigation Planning	NEH-623 (Formally NEH 15); Irrigation Guide	OJT, SS, Workshop		5		
	a. Inventory of Resources				5		
	b. Analysis of Soil-Plant-Water Resources	NEH 652 Irrigation Guide			5		

c. Irrigation Theory				5			
d. System Requirements				5			
e. Water Use and Management Plan				5			
f. Farm Irrigation Rating Method (FIRM)				5			
2. Irrigation Systems				5			
a. System Requirements				5			
b. Pumping Plant Requirements				5			
c. System Designs				5			
(2) Sprinkler Irrigation				5			
(3) Micro Irrigation				5			
(4) Mainline, lateral & manifold design				5			
(5) Filters, valves & appurtenances				5			
d. Water Supply Analysis				5			
3. Irrigation Water Management				5			
a. Principles of Irrigation Water Application				5			
b. Field Procedures for Evaluation of Irrigation Systems				5			
(2) Sprinkler Irrigation				5			
(3) Micro Irrigation				5			
c. Pumping Plant Concepts				5			
d. Analysis of Evaluation Data				5			
(1) Distribution Uniformity				5			
(2) Emissions Uniformity				5			
(3) Irrigation losses				5			
(5) Application efficiency				5			
(6) Potential efficiencies				5			
(7) System & management changes needed				5			
(8) Actual savings of water				5			
(9) Potential savings of water				5			
(10) Water Quality				5			
e. Measurement of Irrigation Water				5			
3. NRCS Irrigation Evaluation Spreadsheets		Microirrigation Evaluation Ver 1.1, FIRM, Irrigation Water Management ver 1.4, Sprinkler - Solid Set Eval ver 1.1	OJT, SS, Workshop	5			
4. FDACS Reporting Method			FDACS, OJT, SS	5			
X. FL NRCS Conservation Practice Standards			OJT, SS, DC				
A. Conservation Practices		(CPS = Conservation Practice Standard - FOTG IV)		3			
1. Irrigation Systems		NEH 652 Irrigation Guide		5			
a. Soil - Plant - Water Relationships				5			

	b.	Planning Irrigation Systems				3			
		(2) Sprinkler Irrigation	CPS 442			3			
		(3) Micro Irrigation	CPS 441			3			
		(6) Water Supply	CPS 533, CPS 447, CPS 642			3			
	c.	Irrigation Water Management	CPS 449			5			
XI.	**Reports - Quarterly and Annual**			OJT, SS, DC					
A.	**Contents of report**		MIL Handbook, Appendix A	OJT, SS, DC		3			
	1. FDACS Quarterly Progress Report Form					5			
	2. Attachment #1					5			
	3. Attachment #2: Original Evaluation and Follow up Tracking Table					5			
	4. MIL Evaluation Waiting List					5			
	5. Education and Outreach					5			