## BEEBY ENGINEERING, INC.

AV CASES							
Evaluation of Tapia Applied Water Demands - Unit	<b>AWD Values</b>	for Sweet Co	rn & Pumpl	kin			
Source							
University of Florida - Document AE260, Chapter 3 Pr	rincipals and l	Practices of Irri	gation Man	agement for	Vegetables		
	•						
	Growing	Crop					
Crop	Season (wks)	Coefficient					
Pumpkin (Vining)	13-15	.79					
Sweet Corn	10-15	1.00-1.10					
		1					
Virginia Cooperative Extension Publication 438-100							
Pumkin Total Water Demand 10-15"							
NSW Government   Industry & Investment - November 2009 - Prime Fact 964 - Pu				uction			
Pumpkin crop water requirment is 4-8 megaliters per							
Conversion	1 hectare =		acres				
	1 liter =	0.2642	gallons				
	4 megaliters	1,056,800	gallons	or	1.3	afa	
	8 megaliters	2,113,600	gallons	or	2.6	afa	
Land Use and Water Use in the Antelope Valley, Calif		_	1	1			
Crop	Etaw	IE	Unit AW		Comments	1	
				T' 11			
Corn (probably field corn)	1.7	0.62	2.7	Field corn not representative because of longer growing seasor			
Alfalfa	4.3	0.78	5.5	Value of 6.5 is better.		ving season	
Allalla	4.3	0.76	5.5	value of 6.	ue of 6.5 is better.		
Consumptive Use of Water by Crops in Arizona - Agr	icultural Evn	rimont Station	University	of Arizona	Do 11		
Consumptive Use of Water by Agior Crops in the Sou				OI AIIZOIIa	- 1 g <del>-</del> 1		
Consumptive Use of Water and Irrigation Water Requ							
Crop	CU (in)	IE	Unit AW	afa	Com	ment	
Crop	CC (III)	IL.	OTHE TIVE	uru			
Sweet Corn	19.6	0.75	26.1	2.2	CU value f		
Sweet Cont	19.0	0.73	20.1	2.2	documents, in iron		
					RGB		
	1 0/00/15		1		1		
Communication with UCD Extension Specialist Ben F							
1. Thinks an AWD of 2.0 afa for sweet corn is too high 2. An AWD of 18 inches (1.5 ft.) is more reasonable	n (ventura)						
<ol> <li>An AWD of 18 inches (1.5 ft.) is more reasonable</li> <li>AWD for Pumpkins might be 2.5 afa (Ventura)</li> </ol>							
4. Agreed that 24 in was probably OK (Ventura)							
4. Agreed that 24 III was probably OR (ventura)							
RGB Conclusions for Antelope Valley							
Crop	Unit	AWD				=	
Sweet Corn		afa					
Pumpkins		afa					
Note: Tapia says AWD is "about the same for Pumpk	ins & Corn an	d is 3.5-4.0 AF.	A (Depo Pg	. 96)			