

CUFR Tree Carbon Calculator

Developed by the Center for Urban Forest Research Pacific Southwest Research Station US Forest Service



In partnership with the California Department of Forestry and Fire Protection

F:	Project Pate outer							
Figure 1	Project Data entry							
	Data name		Data entry	Units Description		Hala Camanan Ia		
		Flag1	0		Tree age selected		Help Comma	nas
		Flag2	1		Shade & climate selected			
	EL	Climate Zone	9 (Pacific Northwest)	() (B.D.A.())	Pacific Northwest			
	Electricity CO2 e		395	(kg/MWh)				
	Electricity CH4 e		0.0030	(kg/MWh)				
	Electricity N2O e	~ <u> </u>	0.0017	(kg/MWh)				
	§required for energy project							
F: 0 0 0			Total and De William	Data				
Figures 6 & 9	Enter Tree data h	Tree and Building Data entry ter Tree data below one tree at a time, then record results						
	Enter Tree data b	Data name	Data entry	Units	Description			
		Data name	Data entry	UTIILS	Description			
	Species code and	d scientific name	QURU (Quercus rubra)		northern red oak			
	Age (years)		200	Age (years)	41.7 in DBH & 96.2 ft high			
	Tree azimuth		5	rige (years)	S			
	Tree distance class		2		Near			
	110	Building vintage	3		post-1980			
	air co	nditioning equip.	1		Central air/heat pump			
	an oo	Heating equip.	1		natural gas			
	Heating emission	ons factor- CO ₂ §	53.1					
	•	ions factor CH ₄ §	ί ο ΄΄					
	Ü	40	(3)					
	Heating emiss	ions factor N ₂ O§	0.0001	(kg/MBtu)				
Figures 7-10								
						CO ₂	Total CO ₂	Above
	Energy reductions		Fortacles as Ladious (OO and Ladious)			_	Stored	ground biomass
			Emission reductions (CO ₂ equivalents)			Sequestration	Stored	biomass
						(A value of 0.0		
	Cooling	Heating	Cooling	Heating	Cooling + Heating	indicates no tree growth)		(dry weight)
	kWh/tree	MBtu/tree	(kg/tree)	(kg/tree)	(kg/tree)	(kg/tree)	(kg/tree)	(kg/tree)
	229.25	-0.945	90.7	-50.3	(kg/tree) 40.3	(kg/tree) 0.0	20131.1	(kg/tree) 8557.1
	kWh/tree	GJ/tree	lb/tree	lb/tree	lb/tree	(lb/tree/year)	(lb/tree)	(lb/tree)
	229.25	-0.997	199.9	-111.0	89.0	0.0	44,381.4	18.865.1
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