

# Opportunities for Storm Wood Debris Reuse

Liz Kress Sullivan

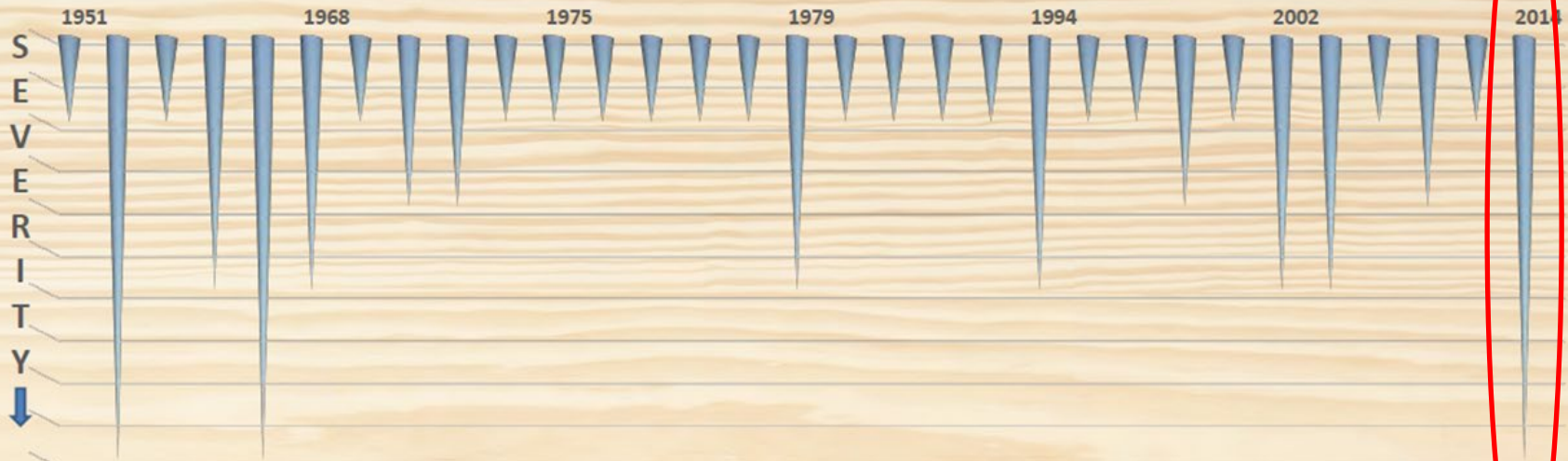
[eakress@homesc.com](mailto:eakress@homesc.com)

843-442-8869 (cell)

# Background

## 2014 ICE STORM | Storm Background

### Ice Storms in South Carolina, 1950-2014



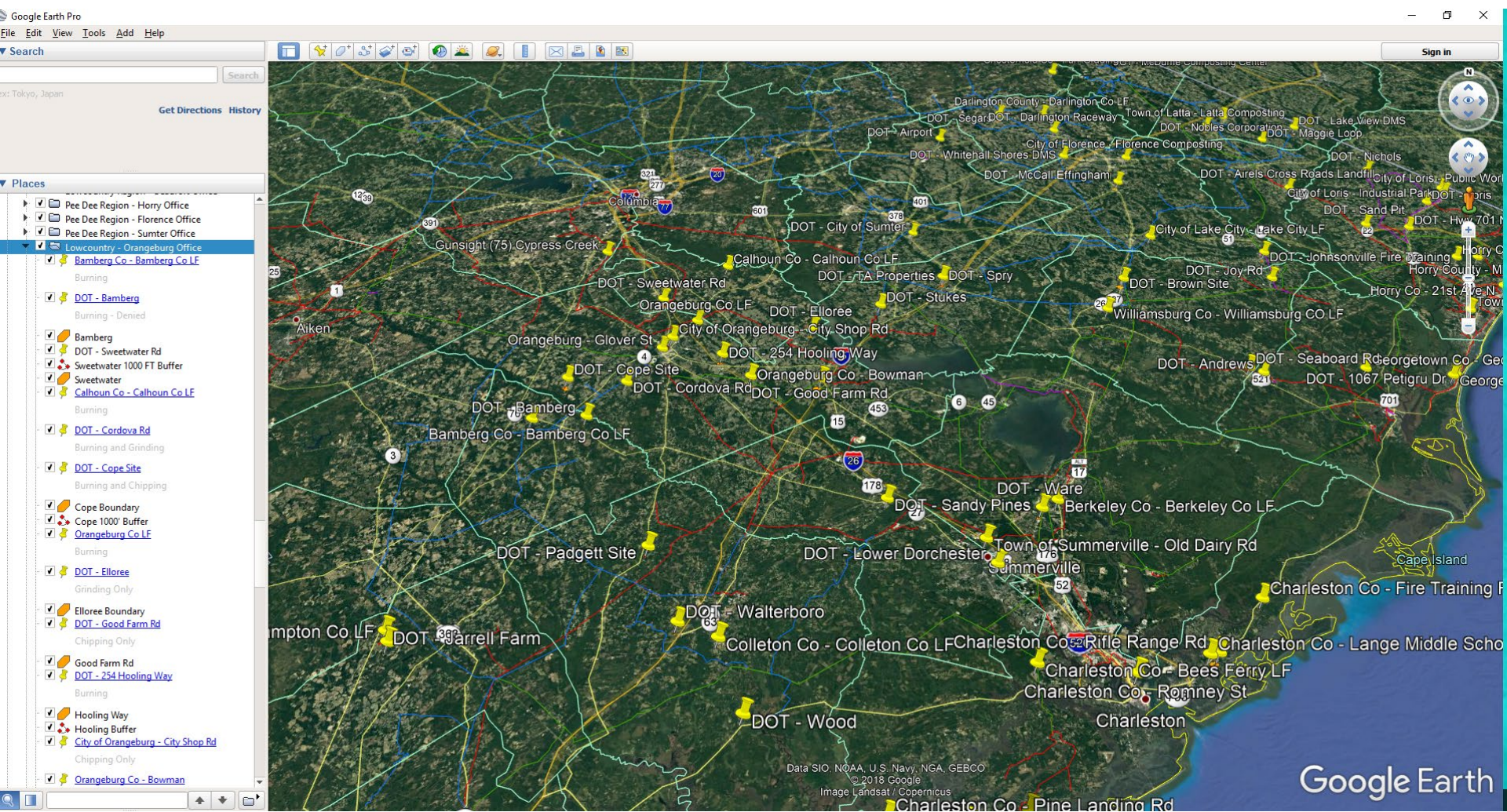
Storm return interval and intensity is highly variable, however ice storm occurrences are a regular part of the disturbance regime for the Southeast.





# Wood Wastes

## - Emergency Response Locations



By the time we were aware of these locations, it was too late. Collections were made without meeting any useful specs.  
Notice notes: Bamberg Co LF – Burning, Calhoun Co LF – Burning, DOT-Cordova Rd – Burning and Grinding.



# Storm debris piles

Storm Debris Sites Rejected by EDF					
Site	Estimated Volume as Tons	Why Rejected	Contact	Product finally moved to	
Summerville	3,000	plastics, bottles, paper	Dorchester Co- Matthew Halter 843-832-0070	unknown	
Allendale	10,000	plastics, bottles, paper	City of Allendale/ JB Coxwell/ Joe Mold-803-686-1653	farmers field	
Windsor	5,000	ground too large, plastics, paper	Al McClaran 864-561-7797	unknown	
Bowman Hwy 210	15,000	ground too large, rubber, plastic, paper	Levin Gaston 352-494-6918	Sims Bark @ Bowman, SC	
Norway	15,000	ground too large, plastic, paper	Levin Gaston 352-494-6918	Sims Bark @ Bowman, SC	
Kingstree	8,000	plastics, bottles, paper	Curt Causey 843-296-1509	RockTenn- Florence, SC	
City of Orangeburg	5,000	plastics, bottles, paper	City of Orangeburg	Council Energy by John Wolston	John's number 803-309-2694
Cross, SC (Berk Co)	10,000	ground too large, plastic, paper	Mark Schlievert (Berkeley Co) 843-312-0095	buried Berkely Co landfill	
Berk Co LF site	10,000	ground too large, plastic, paper	Mark Schlievert (Berkeley Co) 843-312-0095	buried Berkely Co landfill	
Manning, SC	5,000	plastic bags	Clarendon Co Land Fill	GP Alcolu, SC	
Aiken	40,000	yes, Dan also looked at huge piles here. (Sav Riv/Ameresco was not able to use it all.)	Tim Coakley	IP, Augusta and Resolute Augusta	
Williston	5,000	plastics, bottles, paper - some was clean	Jay Bingham	unknown - Jay did not supply as promised	
Total Tons	<b>131,000</b>				
		Bottles = water or drink bottles			
		paper = bags, cardboard, etc.			
		plastics = Walmart bags, black garbage bags			
		Also an occasional oil container, empty			



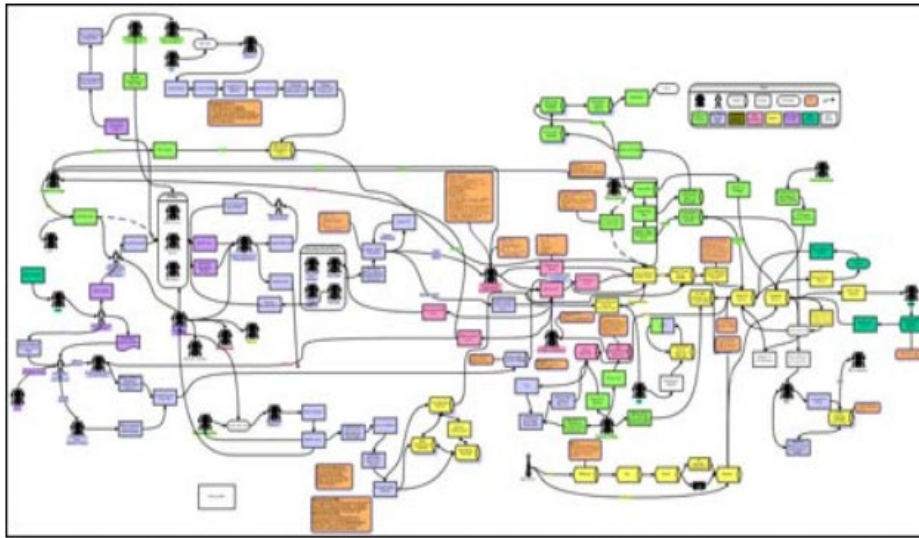
# Would-a, Could-a, Should-a

- Keep plastic bags out of grinder
- Refuse to pick up if in plastic bags
- Refuse to pick up if contained trash of any kind

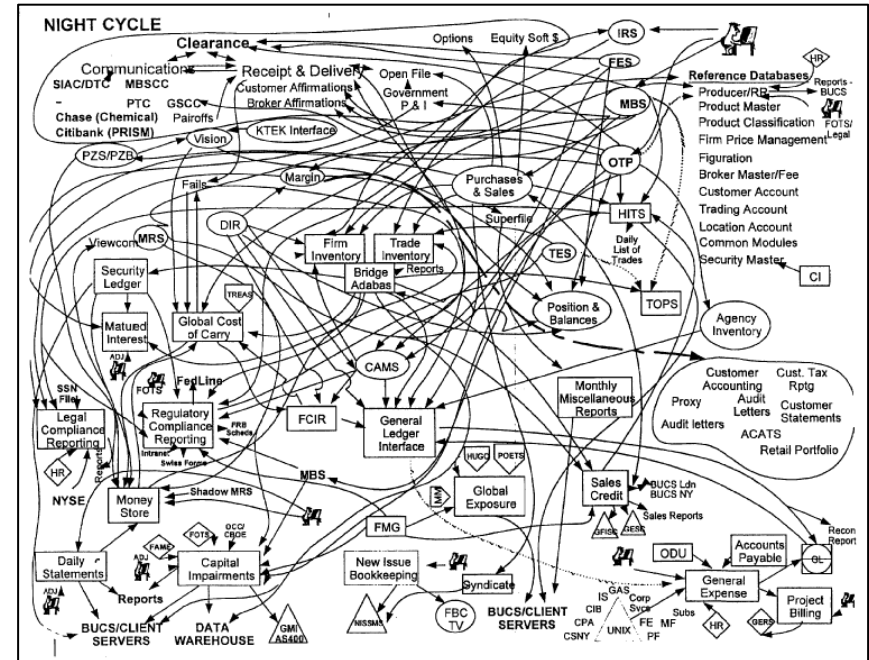
## Why not?

- Get the emergency people (SCDOT in 2014) the specs of nearby plants that could take material
- Have pre-determined list of options for waste wood with specs

# The Contracting



# The Specifications



# Current Responsibility for Vegetative Storm Debris Clean-up

## The Contracting

- DOT has 6 emergency contractors already in place (w/contracts) for Disasters with Significant Amounts of Debris
- Some special agreements exist for other gov't entities to handle the contracts (Charleston, Horry)
- FEMA still pays the bills, as long as all the paperwork is done right
- DOT has contracted with three inspectors to make sure all the paperwork is done right
- Supervision of the contracted clean-up is by local emergency or government designated personnel

## The Specifications

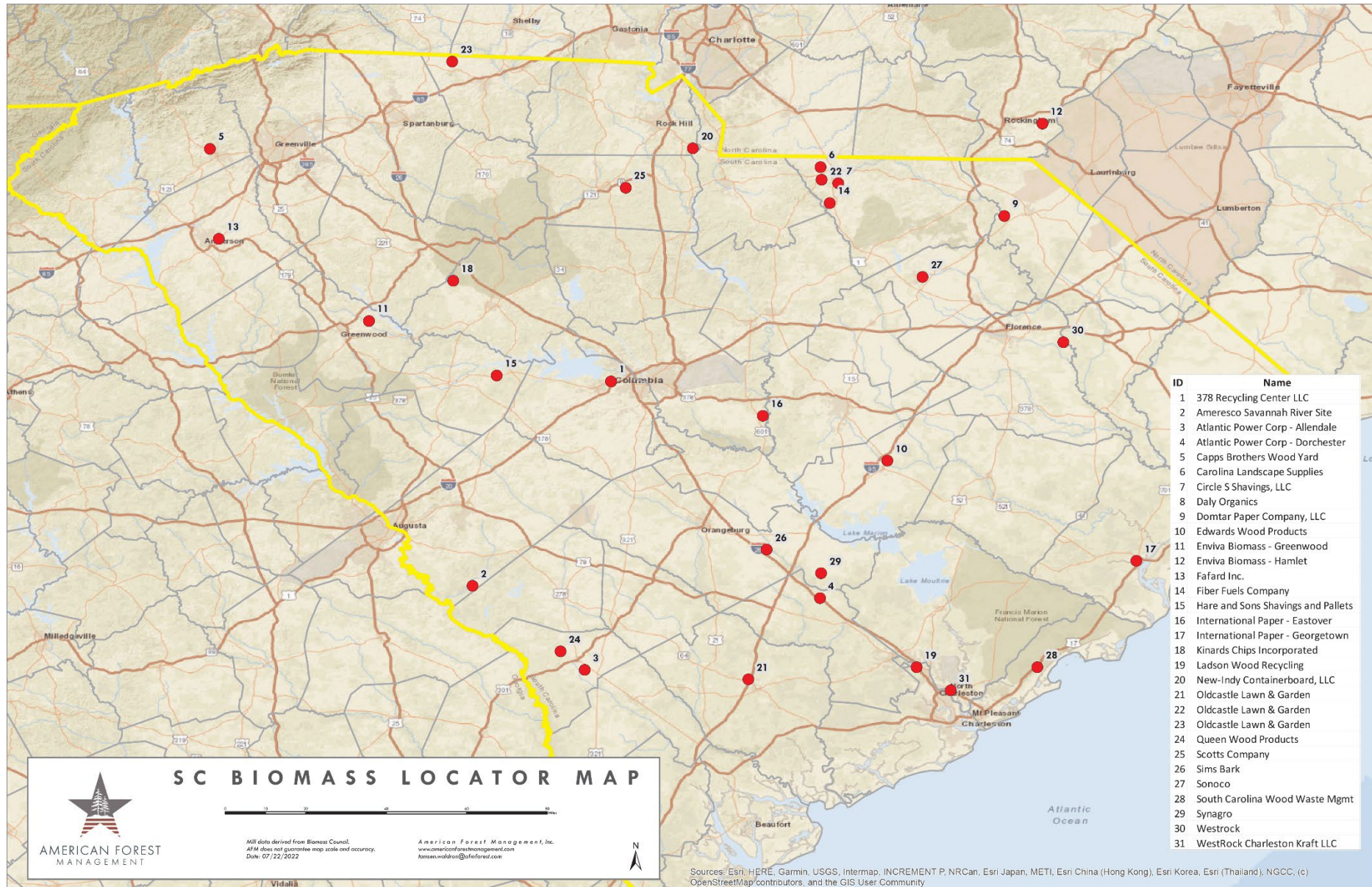
- DOT contract terms have some conflicting guidance on disposal. Terms allow the contractor to sell wood debris and keep the sale income. DOT guidance also states a preference for burning wood debris at collection site, but notes that a DHEC permit must be obtained
- DOT/FEMA guidance stipulates not to include plastic bags or contaminants during collection
- Specifications for grinding are not stated in the contracts that have been executed. Final guidance may come when a disaster occurs and the specific work to be done is determined

# SC Biomass Industry

- Includes companies that utilize waste wood and wood residues to produce energy and bio-products.
- Fuel wood users include companies that make electricity and process heat/steam.
- Utilizing abundant fuel wood instead of coal or natural gas is one way to keep new carbon from reaching the atmosphere (i.e., keep it in the ground)
- The jobs from wood fuel use are here in SC, not TX, WY, OK, WV, NM, PA, IL or ND



# SC Users of Wood Debris



# Details for Users 1-15

Current Facilities that Utilize Biomass - 7-22-22											
	Name		Address	City		County	Contact #1				
1	378 Recycling Center LLC	Shavings & Mulch	5009 Sunset Blvd	Lexington	29072	Lexington	Karson	Corley	Owner	803-513-0982	N/A
2	Ameresco Savannah River Site	Biomass Energy	Burma Road Bldg 705-4G	Jackson	29831	Aiken	Jon	Puckett	Procurement Manager	803-393-1001	jpuckett@ameresco.com
3	Atlantic Power Corp - Allendale	Biomass Energy	307 Airport Loop	Fairfax	29827	Allendale	Charlie	Pierce	Manager	843-560-6790	cpierce@atlanticpower.com
4	Atlantic Power Corp - Dorchester	Biomass Energy	609 Seven Mile Road	Harleyville	29448	Dorchester	Charlie	Pierce	Manager	843-560-6790	cpierce@atlanticpower.com
5	Capps Brothers Wood Yard	Chip mill	Enon Church Road, Easley, SC 29640	Landrum	29356	Greenville	Frank	Capps	President	864-457-2325	cappsbrothers@windstream.net
6	Carolina Landscape Supplies	Shavings & Mulch	232 Market Road	Pageland	29728	Chesterfield	Michael	Plyler	Owner	843-672-7300	arbor@shtc.net
7	Circle S Shavings, LLC	Shavings & Mulch	1201 Sims Road	Pageland	29728	Chesterfield	Ricky	Griffin	Plant Manager	843-672-7133	rickygriffin@circle-s-ranch.us
8	Daly Organics	Mulch, soil amendments	1465 Bellinger Hill Rd	Hardeeville	29927	Jasper	Madison or James	Daly	Owners	912-421-8507	Madison@daly-organics.com
9	Domtar Paper Company, LLC	Pulp and Paper	585 Willamette Road	Bennettsville	29512	Marlboro	Scott	Smearman	Procurement Manager	843-479-6531	scott.smearman@domtar.com
10	Edwards Wood Products		3467 Highway 301 N	Manning	29102	Clarendon	Ben	Jordan	Gen Mgr	803-473-4868	benjordan@ewpi.com
11	Enviva Biomass - Greenwood	Biomass Energy	200 Enviva Way	Greenwood	29646	Greenwood	Joe	Hammond	Commodity Manager	864-377-5888	joseph.hammond@envivabio mass.com
12	Enviva Biomass - Hamlet	Biomass Energy	1125 NC -177	Hamlet, NC	28345	Richmond Co NC (near Marlboro Co SC)	Chad	Rogers	Commodity Manager	910-557-2964	chad.rogers@envivabio mass.com
13	Eafard Inc.	Soil amendments, potting soil	1471 Amity Road	Anderson	29621	Anderson	Ricky	Laws	Plt Manager	864-224-7989	N/A
14	Fiber Fuels Company	Shavings & Mulch	755 W. Armory Road	Jefferson	29718	Chesterfield	Chance	Underhill	Vice President	843-658-3960	chance@fiber-fuels.com
15	Hare and Sons Shavings and Pallets	Shavings & Mulch	2631 Columbia Hwy	Batesburg	29006	Saluda	John	Hare	Owner	803-622-6440	loishare@yahoo.com

# Details for Users 16-31

16	International Paper - Eastover	Pulp and Paper	4001 McCords Ferry Road	Eastover	29044	Richland	Michael	Walker	Fiber Supply Manager	803-353-7678	michael.walker@ipaper.com
17	International Paper - Georgetown	Pulp and Paper	1515 Bourne Street	Georgetown	29440	Georgetown	Justin	Demiter	Fiber Supply Manager	843-520-5609	justin.demiter@ipaper.com
18	Kinards Chips Incorporated	Chip mill	28026 Highway 76	Kinards	29355	Newberry	Jessie	Lusti	Wood Buyer	843-729-7596	Jessie@thepricecompanies.com
19	Ladson Wood Recycling		9421 Highway 78	Ladson	29456	Dorchester	Chip	Keller	Owner	843-670-4500	chips_chippers@hotmail.com
20	New-Indy Containerboard, LLC	Pulp and Paper	5300 Cureton Ferry Road	Catawba	29704	York	Frazier	Baldwin	Procurement Manager	803-981-8375	frazier.baldwin@new-indycb.com
21	Oldcastle Lawn & Garden	Shavings & Mulch	372 Upchurch Lane	Walterboro	29488	Colleton	John	Bigelow	Procurement Manager	843-584-1150	dean.sparks@oldcastle.com
22	Oldcastle Lawn & Garden	Shavings & Mulch	1332 High Point Church Road	Pageland	29728	Chesterfield	David	Oliver	Procurement Manager	863-226-8336	david.oliver@oldcastle.com
23	Oldcastle Lawn & Garden	Shavings & Mulch	773 Buck Shoals Road	Gaffney	29728	Cherokee	David	Oliver	Procurement Manager	843-672-5553	gerald.catoe@oldcastleapg.com
24	Queen Wood Products	Horse bedding	1900 Appleton Road	Allendale	29810	Allendale	Michael	Mathis	Owner	803-584-4777	queen@barnwells.com
25	Scotts Company	Mulch, Soil Amendments	1489 Beltline Road	Chester	29706	Chester	Ken	Bradford	Plant Manager	803-581-4511	http://www.scotts.com
26	Sims Bark	Mulch	172 Arista Rd	Bowman	29018	Orangeburg				803-829-1200	
27	Sonoco	Pulp and Paper	1 North 2nd Street	Hartsville	29550	Darlington	Tim	Kirven	Procurement Manager	843-307-0302	timothy.kirven@sonoco.com
28	South Carolina Wood Waste Mgmt	Lumber and Mulch	6245 Highway 17	Awendaw	29429	Charleston				843-343-8267	
29	Synagro	Soil Additives	Boyer Rd	Harleyville	29448	Dorchester	Matthew	Tabisz	Bus Dev Mgt	443-248-3827	mtabisz@SYNAGRO.com
30	Westrock	Pulp and Paper	7320 Mill Road	Florence	29502	Florence	Tom	Lassiter	Procurement Manager	843-667-6252	tom.lassiter@westrock.com
31	WestRock Charleston Kraft LLC	Pulp and Paper	5600 Virginia Avenue, North Charleston 29406	Charleston	29423	Charleston	Jim	Avent	Procurement Manager	843-560-0124	james.avent@westrock.com

# SC Forestry Industry

- South Carolina's forest industry contributes \$21.2 billion to the state's economy
- Of all the state's industries, it is ranked #1 in jobs (98,000!), #2 in labor income, and #3 in direct economic output
- 63% of SC is forested -13 million acres
- 87% of this forested land is privately held

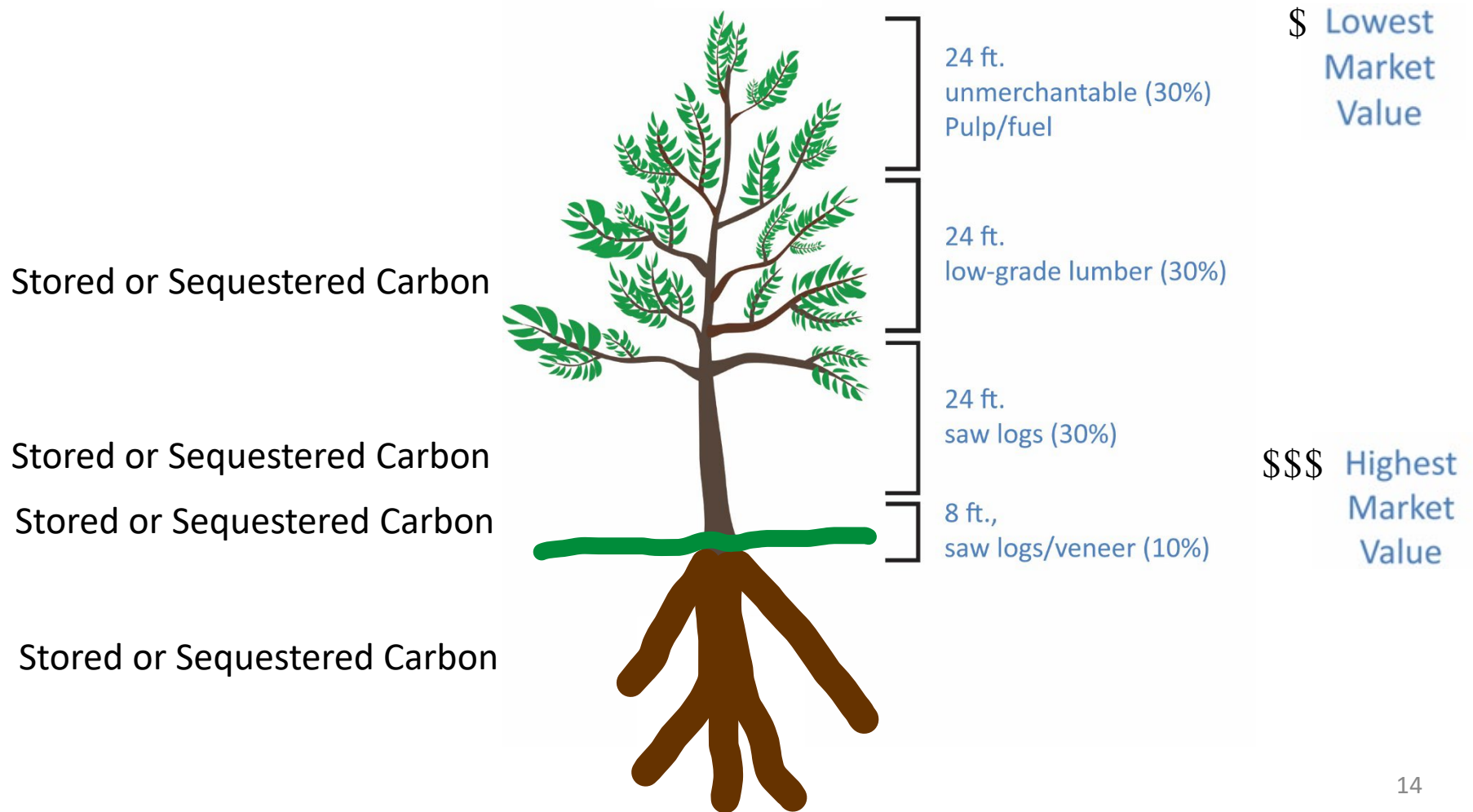
So, what does this mean to you?



# SC Forestry Industry

- Private landowners need a little income to hold forests and not develop them
- Using the unmerchantable wood and residues from logging allows the land to be replanted in trees, and quickly
- Using trees and replanting them will keep the land in forests
- Wood used in products is sequestered carbon

# Wood Fiber Value Chain



# What to do, and Why?

- Ask your emergency team how this option can be evaluated BEFORE the next storm event
- Meet with the two or three nearest wood debris users (within 50 miles) to discuss this
- Ask your FEMA inspector to look for adherence to the rules about contamination, and quality – not just paperwork.
- Why ? – support South Carolina business, save money, and choose to improve the environment.

Elizabeth Kress Sullivan

[eakress@homesc.com](mailto:eakress@homesc.com)

843-442-8869