



Forest
Biometrics
Research Institute

Brock's User Group "BUGS"

Strategies for Managing Dead
Trees and Snags

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Presented by

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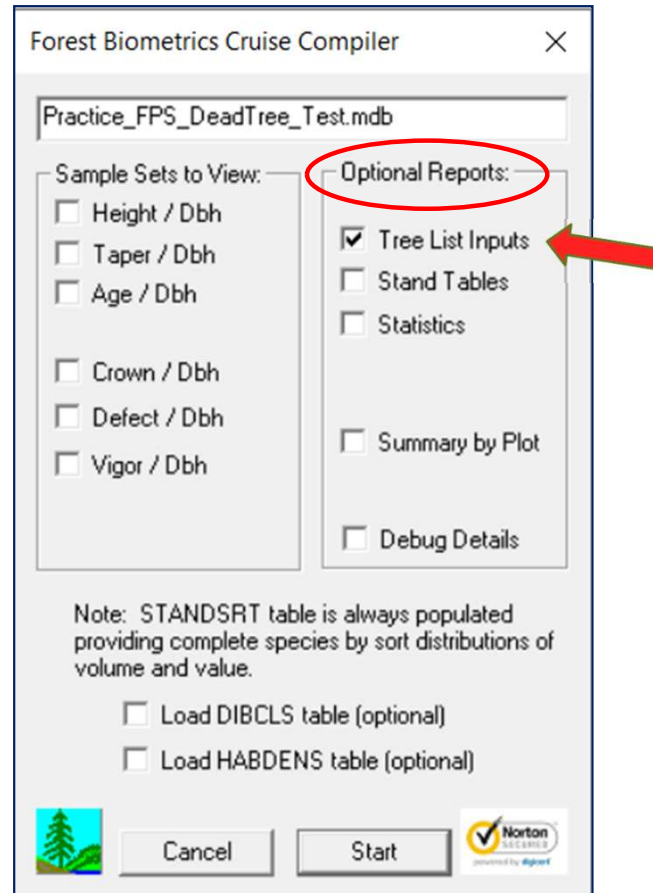
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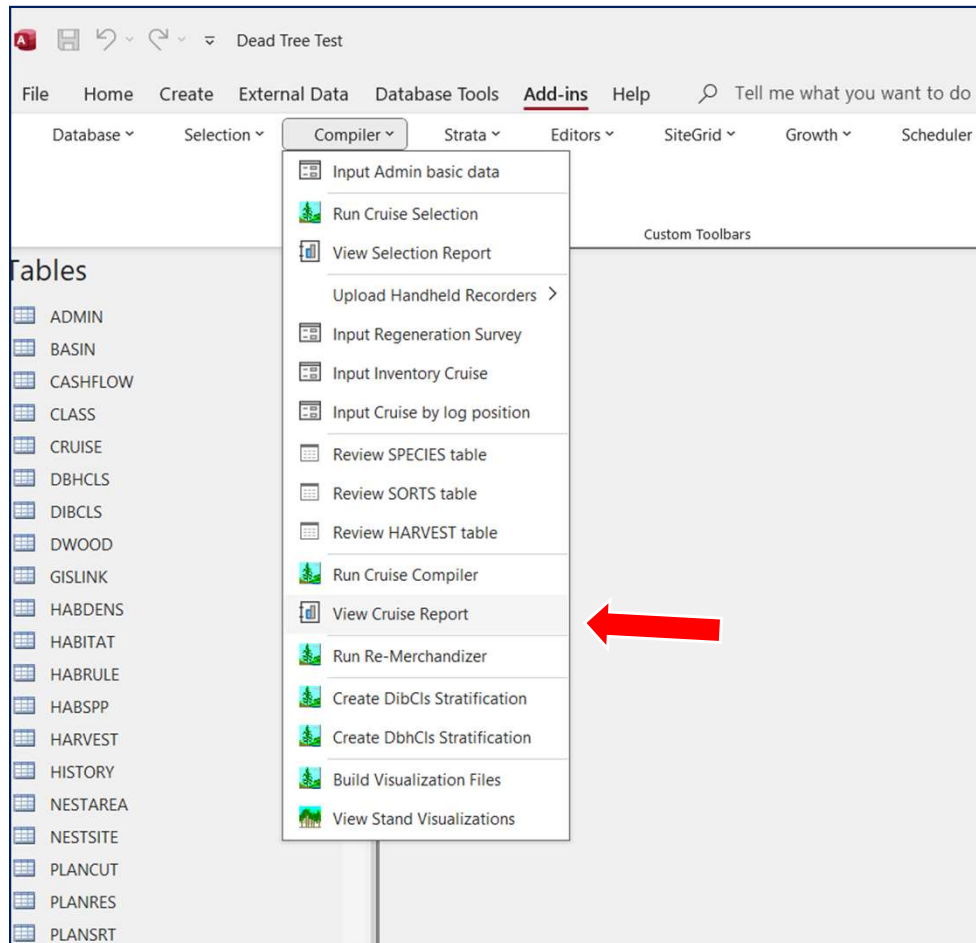
GRP Code Review

- In FPS there are a handful of Group (GRP) Codes that have “intelligence”.
- When these GRP codes are put into the Plots Table, FPS treats the records with these codes in a specific way.
- The ones we are going to focus on today include:
 - .D = Dead Tree
 - SN = Snag Tree
- For a full list of GRP codes, perform the following steps:

1.) Run the Cruise Compiler and Select any of the Optional Reports



2.) Once Compiled – Select View Cruise Report



Cruise Report – Group Codes

Species Group codes (reserved), must include a Species code:

.. = live tree (default)

→ .D = dead tree

.C = cut tree

.I = ingrowth tree

.N = natural regeneration tree

.P = planted tree

.S = stump-sprout tree

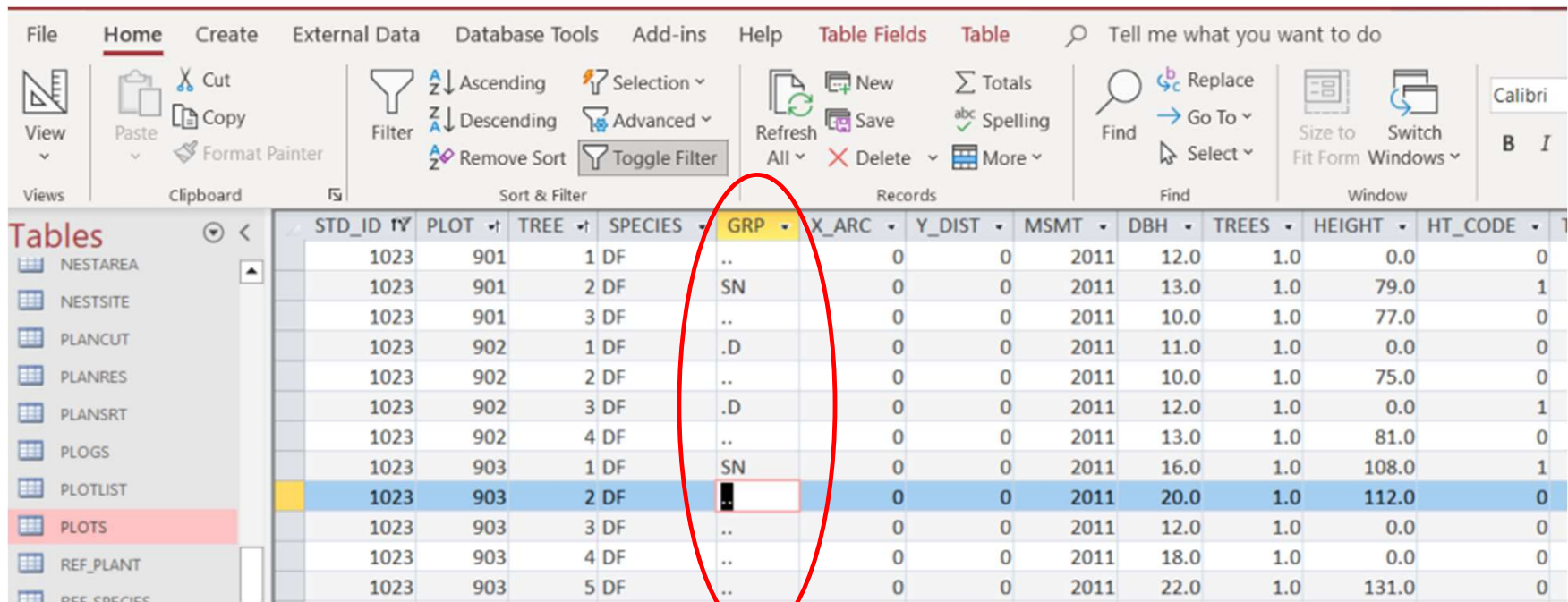
DD = dead and down tree with Species code

→ SN = snag tree (standing) with Species code

RT = reserved tree (no volume or value unless harvested)

Tips for Managing Snags & Dead Trees

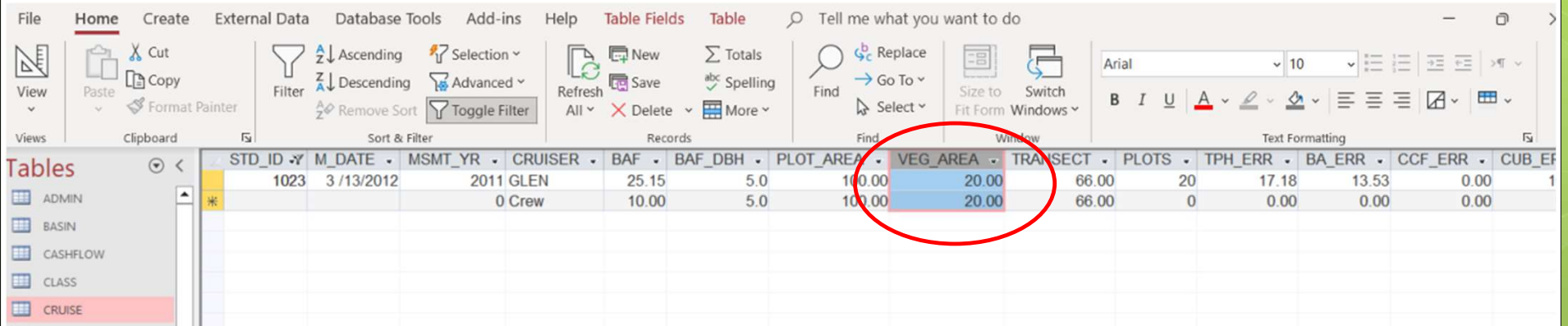
- In Plots Table Snags & Dead Trees are coded as SN & .D in GRP Column



STD_ID	Y	PLOT	TREE	SPECIES	GRP	X_ARC	Y_DIST	MSMT	DBH	TREES	HEIGHT	HT_CODE
1023		901	1	DF	..	0	0	2011	12.0	1.0	0.0	0
1023		901	2	DF	SN	0	0	2011	13.0	1.0	79.0	1
1023		901	3	DF	..	0	0	2011	10.0	1.0	77.0	0
1023		902	1	DF	.D	0	0	2011	11.0	1.0	0.0	0
1023		902	2	DF	..	0	0	2011	10.0	1.0	75.0	0
1023		902	3	DF	.D	0	0	2011	12.0	1.0	0.0	1
1023		902	4	DF	..	0	0	2011	13.0	1.0	81.0	0
1023		903	1	DF	SN	0	0	2011	16.0	1.0	108.0	1
1023		903	2	DF	█	0	0	2011	20.0	1.0	112.0	0
1023		903	3	DF	..	0	0	2011	12.0	1.0	0.0	0
1023		903	4	DF	..	0	0	2011	18.0	1.0	0.0	0
1023		903	5	DF	..	0	0	2011	22.0	1.0	131.0	0

How to Manage Snags & Dead Trees

- Snag and Dead tree cruise records are “assumed” to be sampled on a fixed radius plot...which is defined in the VEG_AREA column in the Cruise Table



The screenshot shows the Microsoft Access interface with the CRUISE table open. The ribbon includes File, Home, Create, External Data, Database Tools, Add-ins, Help, Table Fields, and Table. The ribbon also features various tools like Filter, Sort & Filter, Records, Find, and Text Formatting. The table data is as follows:

STD_ID	M_DATE	MSMT_YR	CRUISER	BAF	BAF_DBH	PLOT_AREA	VEG_AREA	TRANSECT	PLOTS	TPH_ERR	BA_ERR	CCF_ERR	CUB_EF
1023	3/13/2012	2011	GLEN	25.15	5.0	100.00	20.00	66.00	20	17.18	13.53	0.00	1
*			0 Crew	10.00	5.0	100.00	20.00	66.00	0	0.00	0.00	0.00	

- VEG_AREA 20 = 1/20th acre fixed radius plot

How to Manage Snags & Dead Trees

- All Snag and Dead Tree records are put into the SNAGS Table following a compile

Custom Toolbars

STD_ID	RPT_YR	Regime	SPECIES	DbhKey	TREES	DBH	HEIGHT	DECAY	CubicNet	BoardNet	StemDry	DEFECT	CarbTree	CO2Tree
1023	2011	GROW	DF	9010002	1.00	13.0	79.0	1	29	162	855	0.00	729.7	1.21
1023	2011	GROW	DF	9020001	1.00	11.0	43.8	1	11	64	340	0.00	289.8	0.48
1023	2011	GROW	DF	9020003	1.00	12.0	64.6	1	20	113	596	0.00	508.1	0.84
1023	2011	GROW	DF	9030001	1.00	16.0	108.0	1	59	335	1771	0.00	1,511.1	2.51
*	0	0 NONE	XX	0	0.00	0.0	0.0	0	0	0	0	0.00	0.0	0.00

- Snags and Dead Tree records are not present in your Stand, StandSrt, or DBHCLS Tables and their volumes are reported separately from live trees

How to Manage Snags & Dead Trees

- But my cruisers tallied these trees with a BAF because who would ever use a fixed plot to sample dead trees...what do I do?
- Option 1
 - Update SN & .D (GRP Code) trees to DE in plots table
 - Recompile stand(s) of interest
 - Tree records will now be available in Stand, StandSrt, and DBHCLS tables for reportable volume
- Option 2
 - Update VEG_AREA to "0" in Cruise Table
 - Defaults to SN and .D Trees being tallied on BAF
 - Still reported in Snags Table Only

How to Manage Snags & Dead Trees

CAUTION – Option 1

- **Snags And Dead Trees Do Not Grow**
 - All Trees in Stand, StandSrt, and DBHCLS Tables are available for growth (This is why Snags and Dead tree records are in Snags Table)
- To grow stands
 - Go back and replace DE with .D or SN in GRP Code (Plots Table)
 - Re-Compile
 - Removes Snags & Dead Trees from Stand, StandSrt, and DBHCLS Tables and places them back into Snags Table
 - Run Growth Model



Questions?