

## APPENDIX 11 -- TALLY SHEET GUIDE

On the seven page sample record there are several variables that may require entries, either coded or written, by the field crews.

Where a numbered variable requires a coded entry, the number of digits required for that entry is indicated by the number of X's immediately below the variable number on the sample record. Some variables require measurements to decimal fractions of inches or feet. For those items, it is understood that the last digit represents a decimal fraction. For example, a tree DBH of 23.4 inches is coded as 234.

**The decimal points are never placed in coded entries.**

The entries for some variables will have been made in the office. These are usually variables **3.100** through **3.140**. These entries may be incorrect, but do not change any previously made entry without the approval of your supervisor.

Notes should be recorded as often as needed to clarify coded entries and to explain unusual or unique situations. Notes are also used to direct attention to anything about a particular plot that the crews think is important now, or may be important when the plot is remeasured during the next inventory. If necessary, attach extra sheets of notes.

**The value of notes cannot be overemphasized!** Suffice it to say that a few notes are made at a fraction of the cost that would be involved in going back to a plot to answer questionable data.

Take a moment to read the statement printed on the inside cover of this document. Even though it was written more than sixty years ago, this statement still applies to everything that we do today. Field data collection is the most important part of this inventory. Everything that comes afterward is dependent on a complete and accurate set of data.

The information to be recorded on the sample record is determined by the category of plot (sample kind) and the condition class status assigned by the field crew. Examples of the specific data variables needed for each category of plot appear on the following pages.

NOTE: When using the data recorder the following information is displayed from plot history files stored in the data recorder memory: plot identification and previous tree information (tree number, species, horizontal distance, azimuth, previous tree class / merchantability class, and previous DBH). In general, the variables that specifically apply to the previous inventory and the current inventory (such as species, horizontal distance and azimuth) are the variables that may be changed.

PLOT LEVEL DATA																								
STATE	UNIT	COUNTY	PLOT NUMBER	SAMPLE KIND	QA STATUS	CREW TYPE	PHASE	CURRENT			PREVIOUS			CRUISER NUMBER	TALLY NUMBER	TRAIL/ROAD TYPE	DIST. TO IMP. ROAD	ROAD ACCESS	PUB. USE RESTRICT.	RECREATION USE	WATER ON PLOT	TERRAIN POS	SITE PROD CLASS	MANUAL VERSION
								MONTH	DAY	YEAR	LAND USE	MONTH	YEAR											
								3.100	3.110	3.120	3.130	3.140	3.145											
XX	X	XXX	XXXX	X	X	X	X	XX	XX	XXXX	XX	XX	XXXX	XXX	XXX	X	X	X	X	XXX	X	X	X	XX
▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	▲	▲	■	■	■	■	■	■	▲		▲

- All accessible forestland
- Remeasure plots
- ▲ All plots
- ME MAINE only

CONDITION CLASS LEVEL DATA																																
CONDITION CLASS NUMBER	CONDITION CLASS STATUS	LAND USE CLASS	FOREST TYPE	STAND SIZE	REGENERATION STATUS	RESERVE STATUS	TREE DENSITY	OWNER GROUP	OWNER CLASS	PRIVATE OWNER INDUSTRIAL STATUS	ARTIFICIAL REGENERATION SPECIES	STAND AGE	DISTURBANCE 1	DISTURBANCE 1 YEAR	DISTURBANCE 2	DISTURBANCE 2 YEAR	DISTURBANCE 3	DISTURBANCE 3 YEAR	TREATMENT 1	TREATMENT 1 YEAR	TREATMENT 2	TREATMENT 2 YEAR	TREATMENT 3	TREATMENT 3 YEAR	PHYSIOGRAPHIC CLASS	TIMBER MGMT. CLASS	PAST NONFOREST LU	PRESENT NONFOREST LU	STAND HISTORY	STAND STRUCTURE	STOCKING CLASS	
4.300	4.310	4.320	4.330	4.340	4.350	4.360	4.370	4.380	4.400	4.405	4.410	4.420	4.431	4.432	4.433	4.434	4.435	4.436	4.491	4.492	4.493	4.494	4.495	4.496	4.440	4.450	4.451	4.452	4.460	4.465	4.470	
X	X	XX	XXX	X	X	X	X	XX	XX	X	XXX	XXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XX	XX	XX	XX	X	X	X
1	1	▲	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2	2	▲																														
3	3	▲																														
4	4	▲																														
5	5																															
6	6																															
7	7																															



▲ All plots

■ All accessible forestland

SUBPLOT LEVEL DATA							
SUBPLOT NUMBER	SLOPE CORRECTION	SUBPLOT CENTER CONDITION	MICROPLOT CENTER CONDITION	SUBPLOT SLOPE	SUBPLOT ASPECT	SNOW/WATER DEPTH	CROWN CLOSURE CLASS
4.100	4.102	4.106	4.107	4.110	4.120	4.125	4.130
X	XXX	X	X	XXX	XXX	XX	X
1	▲	▲	▲	■	■	■	M E
2	▲	▲	▲	■	■	■	M E
3	▲	▲	▲	■	■	■	M E
4	▲	▲	▲	■	■	■	M E

SITE INDEX DATA								
COND CL	SITE TREE NUMBER	SUBPLOT NUMBER	CONDITION CLASS NUM.	CONDITION CLASS LIST	SPECIES	DBH	TOTAL LENGTH	AGE
	7.001	7.005	7.100	7.105	7.110	7.120	7.130	7.140
	X	X	X	XXXXX	XXX	XXX	XXX	XXX
COND CL	■	■	■	■	■	■	■	■
COND CL								
COND CL								
COND CL								
COND CL								
COND CL								

M E MAINE only

● All boundaries

BOUNDARY DATA							
SUBPLOT NUMBER	PLOT TYPE	BOUNDARY CHANGE	CONTRASTING COND. CLASS	CONDITION CLASS NUMBER	LEFT AZ TO BOUNDARY	CORNER AZ TO BOUNDARY	RIGHT AZ TO BOUNDARY
4.100	4.200	4.211	4.212	4.213	4.214	4.215	4.216
X	X	X	X	XXX	XXX	XX	XXX
●	●	●	●	●	●	●	●

STAND AGE WORKSHEET			
SPECIES	RING COUNT PLUS 5 YEARS	PERCENT OF OVERSTORY	WEIGHTED AGE
XXX	XXX	XX	XXX
		100%	





3.100	3.110	3.120	3.130	3.140
xx	x	xxx	xxxx	x
▲	▲	▲	▲	▲

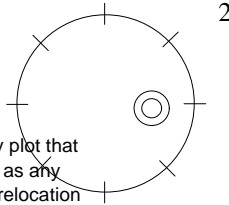
▲ All Plots

### 2.170 PLOT DIAGRAM

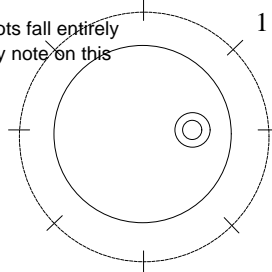
Sketch in the boundaries of any plot that has multiple conditions, as well as any features that may facilitate the relocation of this plot.

Be particularly careful to sketch condition boundaries that occur within the subplot as accurately as possible (include azimuths).

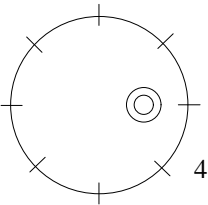
For plots where all 4 subplots fall entirely within one condition, clearly note on this page: "All Condition 1".



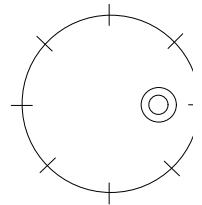
2



1



4



3



FOREST INVENTORY AND ANALYSIS  
MANUAL VERSION 1.4 AND 1.5

▲ All plots / trees    ■ New trees    S Sawlogs    ● Rem. live/dead trees    D Dead trees    ME MAINE only

3,100	3,110	3,120	3,130	3,140
xx	x	xxx	xxxx	x
▲	▲	▲	▲	▲

TREE LEVEL DATA																																					
SUBPLOT NUMBER	TREE NUMBER	SPECIES	HORIZ DISTANCE	AZMUTH	TREE HISTORY	DBH	DIAMETER CHECK COND. CLASS NUMBER	TREE CONDITION	LEAN ANGLE	TREE GRADE	SAWLOG LENGTH	BOLE LENGTH	TOTAL LENGTH	ACTUAL LENGTH	LENGTH METHOD	BOARD FOOT CULL	% SOUNDNESS (BBFT)	CUBIC FOOT CULL	% SOUNDNESS (CUFT)	CROWN CLASS	COMPACT. CROWN RATIO	CAUSE OF DEATH	DAMAGE LOCATION 1	DAMAGE TYPE 1	DAMAGE SEVERITY 1	DAMAGE LOCATION 2	DAMAGE TYPE 2	DAMAGE SEVERITY 2	TREE CLASS	MERCH CLASS	MORTALITY YEAR	DECAY CLASS	UTILIZATION CLASS	PREV DBH	PREV TREE/MERCH CLASS	NOTES	
6.100	6.105	6.110	6.120	6.130	6.140	6.150	6.155	6.160	6.165	6.170	6.175	6.180	6.190	6.200	6.205	6.206	6.207	6.220	6.230	6.240	6.250	6.260	6.270	6.271	6.272	6.273	6.274	6.275	6.276	6.290	6.300	6.305	6.310	6.320	6.330	6.340	6.350
X	XXX	XXX	XXX	XXX	XXX	XXX	X	X	X	X	X	X	X	XX	XX	X	XX	X	XX	X	XX	X	XX	X	XX	X	XX	X	X	X	XXX	X	X	XXX	XX	XXX	
Live saplings 1.0-in to <5.0-in DBH																																					
▲	■	■	■	■		■	■	■							ME					■	■																■
Live trees >= 5.0-in DBH																																					
▲	■	■	■	■		■	■	■	■	■	■	■	■	■	■	S	S			■	■	■	■	■	■	■	■	■	■	■	■						■
Dead trees >= 5.0-in DBH																																					
▲	■	■	■	■		■	■	■	■	■	S	S	■	■	■	■	S	S	■	■		■							■	■							■
Snags >= 5.0-in DBH																																					
▲	■	■	■	■		■	■	■	■	■		■	■	■	■							■							■								■
▲	●	●	●	●	10	●	●	●	●	S	S	●	●	●	●	S	S	●	●	R	R		R	R	R	R	R	R	●	●					●	●	
▲	●	●	●	●	11	●	●	●	●	S	S	●	●	●	●	S	S	●	●	R	R	D	R	R	R	R	R	R	●	●		D				●	
▲	●	●	●	●	12	●	●	●	●	S	S	●	●	●	●	S	S	●	●	R	R		R	R	R	R	R	R	●	●							●
▲	●	●	●	●	13																														●	●	
▲	●	●	●	●	14																														●	●	
▲	●	●	●	●	15																														●	●	
▲	●	●	●	●	16	●	●	●	●	S	S	●	●	●	●	S	S	●	●	R	R	D	R	R	R	R	R	R	●	●		D				●	
▲	●	●	●	●	17																															●	●
▲	●	●	●	●	18	●	●	●	●	S	S	●	●	●	●	S	S	●	●	R	R	D	R	R	R	R	R	R	●	●		D				●	
▲	●	●	●	●	19	●	●	●	●	S	S	●	●	●	●	S	S	●	●	R	R		R	R	R	R	R	R	●	●						●	●

USDA FOREST SERVICE  
 NORTHEASTERN RESEARCH STATION  
 FOREST INVENTORY AND ANALYSIS  
 MANUAL VERSION 1.4 AND 1.5

3,100	3,110	3,120	3,130	3,140
XX	X	XXX	XXXX	X

TREE LEVEL DATA																																							
SUBPLOT NUMBER	TREE NUMBER	SPECIES	HORIZ DISTANCE	AZIMUTH	TREE HISTORY	DBH	DIAMETER CHECK	COND. CLASS NUMBER	TREE CONDITION	LEAN ANGLE	TREE GRADE	SAWLOG LENGTH	BOLE LENGTH	TOTAL LENGTH	ACTUAL LENGTH	LENGTH METHOD	BOARD FOOT CULL	% SOUNDNESS (BDF)	CUBIC FOOT CULL	% SOUNDNESS (CUFT)	CROWN CLASS	COMPACT. CROWN RATIO	CAUSE OF DEATH	DAMAGE LOCATION 1	DAMAGE TYPE 1	DAMAGE SEVERITY 1	DAMAGE LOCATION 2	DAMAGE TYPE 2	DAMAGE SEVERITY 2	TREE CLASS	MERCH CLASS	MORTALITY YEAR	BEGAY CLASS	UTILIZATION CLASS	PREV DBH	PREV TREE/MERCH CLASS	NOTES		
6.100	6.105	6.110	6.120	6.130	6.140	6.150	6.155	6.160	6.170	6.175	6.180	6.190	6.200	6.205	6.206	6.207	6.210	6.220	6.230	6.240	6.250	6.260	6.270	6.276	6.272	6.278	6.274	6.275	6.276	6.290	6.300	6.305	6.310	6.320	6.330	6.340	6.350		
X	XXX	XXX	XXX	XXX	XX	XXX	X	X	X	X	X	XX	XX	XXX	XXX	X	XX	X	XX	X	XX	XX	X	XX	X	X	X	XX	X	X	XXXX	X	X	XXX	XX	XXX			
▲	●	●	●	●	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	21	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	22	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	23	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	24	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	31	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
▲	●	●	●	●	33	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
▲	●	●	●	●	34	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
▲	●	●	●	●	38	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
▲	●	●	●	●	39	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●







