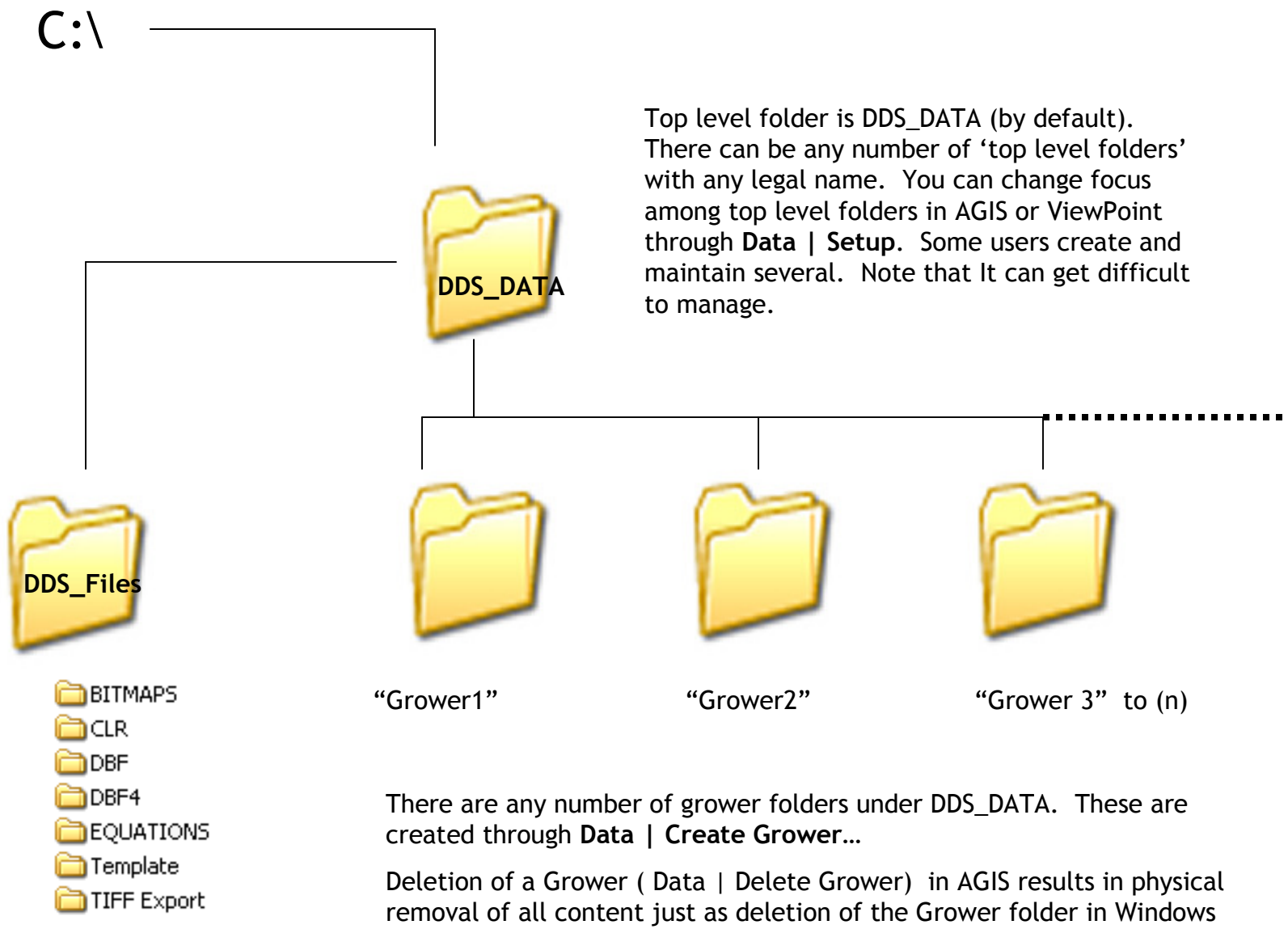
Notes on Organization of Data in AGIS/ViewPoint

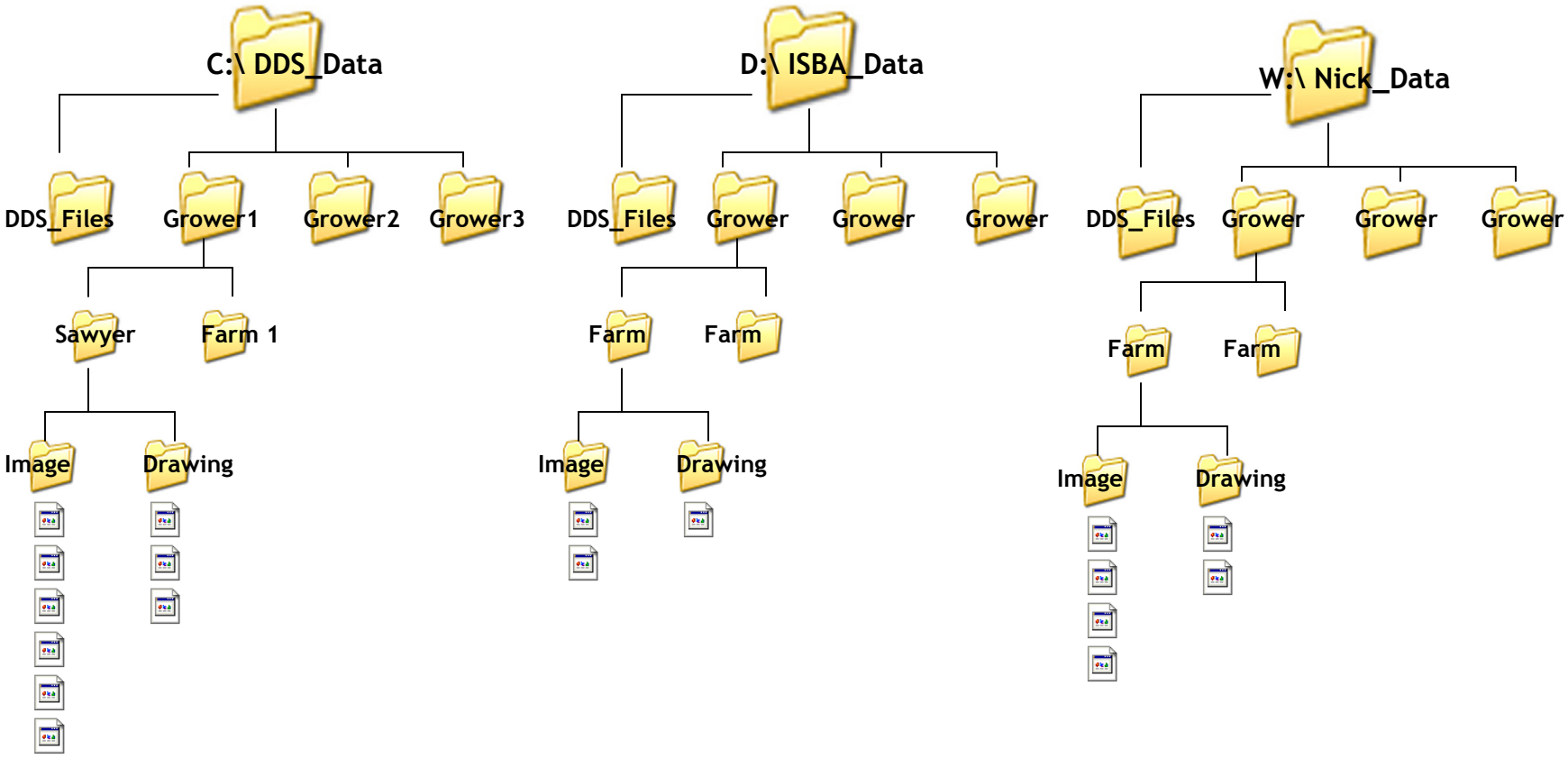


There is one and only one DDS_Files folder containing various subfolders relating to color tables, operation-specific tables, equation files, etc.

Top level folder is DDS_DATA (by default). There can be any number of ‘top level folders’ with any legal name. You can change focus among top level folders in AGIS or ViewPoint through **Data | Setup**. Some users create and maintain several. Note that It can get difficult to manage.

There are any number of grower folders under DDS_DATA. These are created through **Data | Create Grower…**

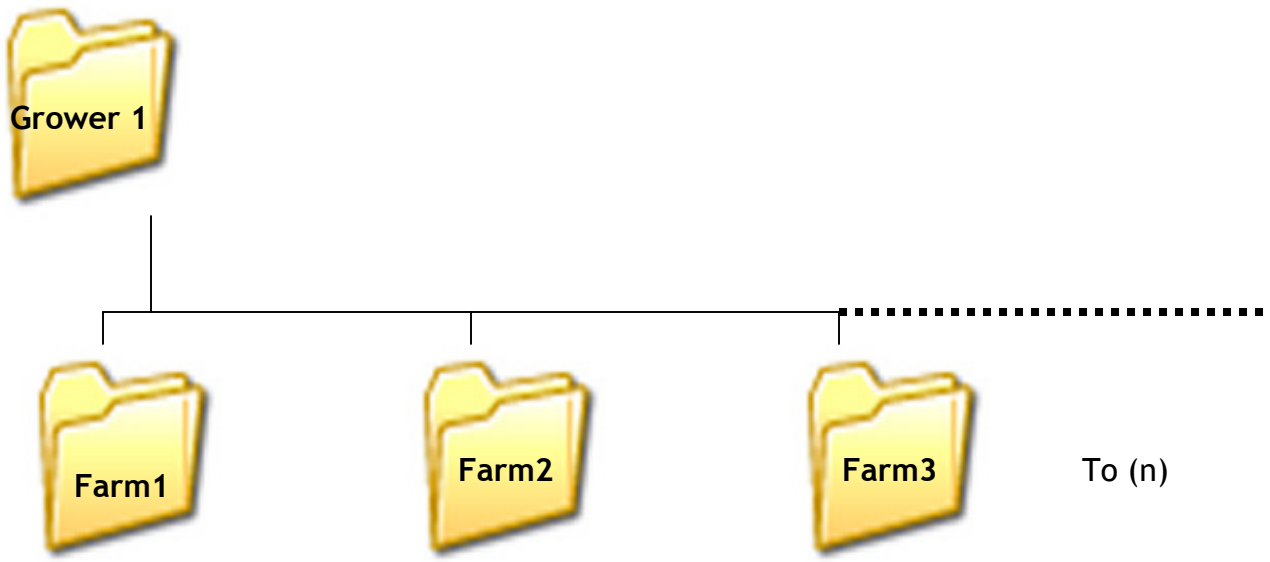
Deletion of a Grower (Data | Delete Grower) in AGIS results in physical removal of all content just as deletion of the Grower folder in Windows Explorer.



Assuming a physical connection, one AGIS operator could work in any of these structures by switching focus at **Data | Setup**. Each structure is independent.

Two AGIS operators could be accessing the same top level but the could not be working on the same Farm at the same time (LOCKING.DDS prevents this).

Files from Image or Drawing folder in one structure could be copied to Image or Drawing folders in another structure using Windows Explorer. This will change the content of the target Farm and must be managed intelligently. Projection consistency would be one issue.



Any number of Farm folders can be created under a grower. Typically a "Farm" is intended to organize data from multiple fields that are more or less contiguous or at least consistent in operational terms. If a citrus grower has groves in California and Florida, we have never thought it made sense to have both operations in the same farm. Better to have a Farm [Florida] and a Farm[California] under grower [United Fruit]. Why? Projection (thus considerations of area, length, azimuth) is one critical consideration.

A "Farm" is created through **Data | Create Farm…**

Farm creation principally involves specifying a name and a map projection. The map projection must be established in order to set the geography (projection and datum) to which all inputs will conform.

Deletion of a Farm (Data | Delete Farm) in AGIS results in the physical removal of all content related to the Farm just as deleting the Farm folder in Windows Explorer.

Image folder contains image data specifically related to the Farm. Images are generated in import and data generation operations (e.g Algebra, Surface, etc.) Images contain reference information relating to layer, farm field and season membership. This means they are 'transferable in the sense that you can copy an image file from the Image Folder under **Farm1** to the image folder under **Farm2** and, if the georeference is consistent, the copied image will integrate with the layer structure of **Farm2.**

The copy operation is referring to an operation in Windows XP OS. We don't recommend you use Windows Explorer as a data management tool UNLESS you think things through.

Drawing folder contains drawing data (vector) and associated tables. Drawing files are generated in import and data generation operations (e.g. digitizing, vectorization, query).

Drawings, like images, contain reference information relating to layer, farm field and season membership.

They are also transferrable through the sequence previously described.

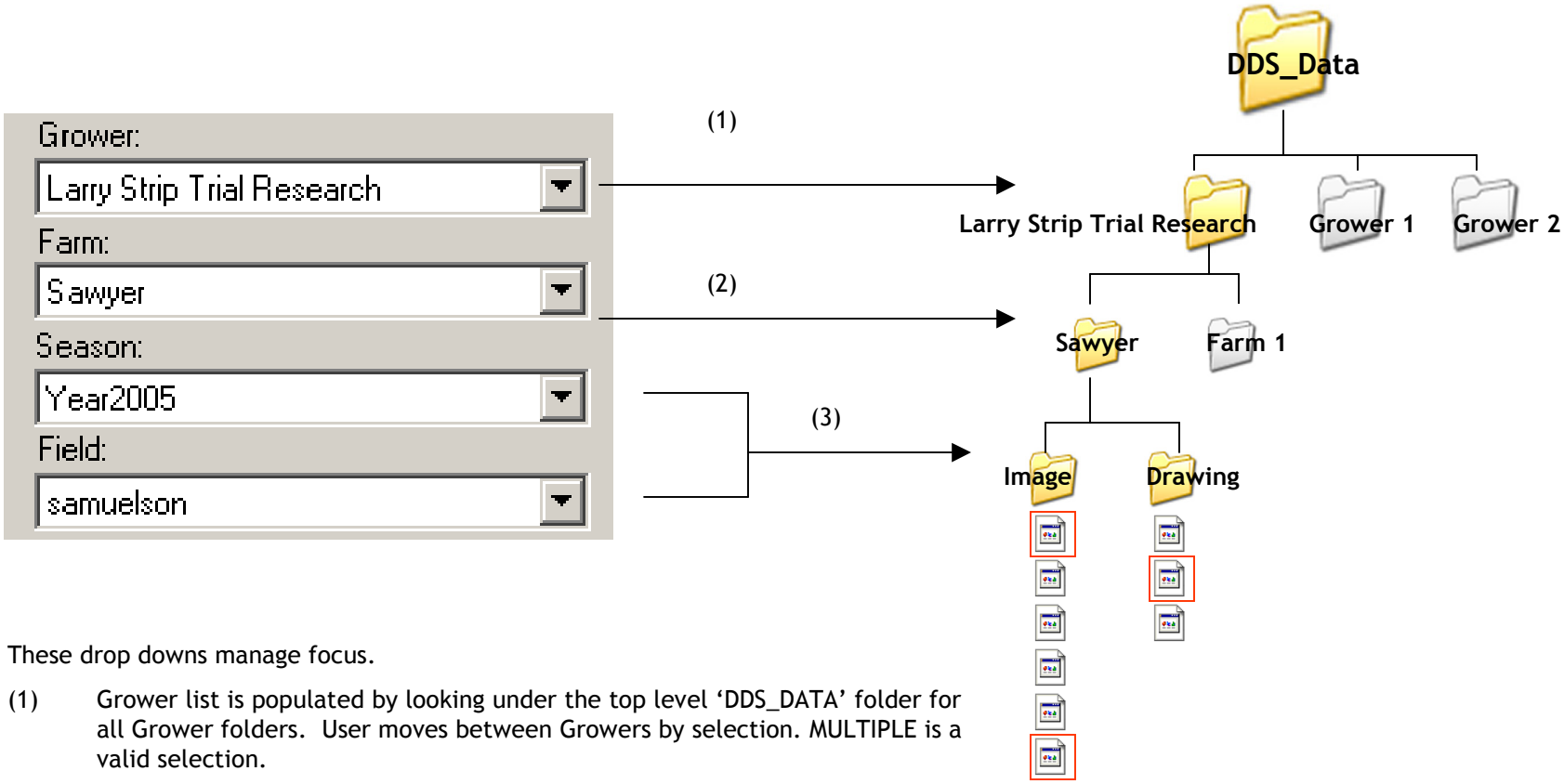
Ancillary files relating to **Farm1.**

FARM.DDS_MPF manages AGIS "state": Content and structure of layer list, last display/layer activity, drawing colors, etc. This file is dynamic- created if not existing; changed on entry/exit; If deleted, it is rebuilt.

FIELD.MDB contains a list of farm field names that are used in legacy operations.

LOCKING.DDS prohibits multiple access of the same farm.

Population of Grower-Farm-Season-Field drop downs on AGIS/ViewPoint interface.



These drop downs manage focus.

(1) Grower list is populated by looking under the top level 'DDS_DATA' folder for all Grower folders. User moves between Growers by selection. MULTIPLE is a valid selection.

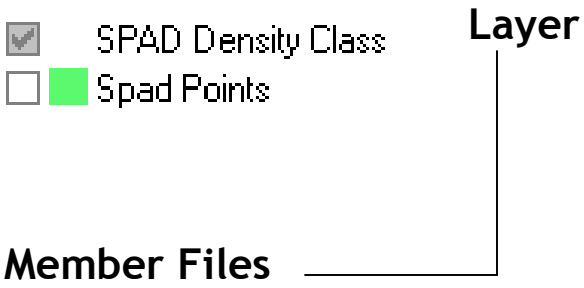
(2) Farm list is populated by looking under each Grower folder for all Farms. User moves between Farms by selection. MULTIPLE is a valid selection.

(3) Season and Field lists are populated by Opening the files under Drawing and Image folders to extract Season and Field associations. Note that file open operations take time. The greater the number of files to be opened, the more time required in managing focus/layer list activity. MULTIPLE is a valid selection.

Any change in drop down configuration requires a re-read (re-identification) of files relating to the current drop down list configuration.

Images and drawings for 'samuelson' field, season [2005] are active. Changing Season or Field selection at the drop down will change file focus.

Layer List



"samuelson" is the farm field selected at the Field drop down. There is one and only one member of Layer [SPAD Density Class] that is associated with "samuelson". It is checked (active)

MULTIPLE is the farm field selection at the Field drop down. All selected fields are members of Layer [SPAD Density Class]. All are checked (active).

"Layer" is a membership characteristic. There are Files in the Image folder under Farm [Sawyer] that are members of Layer [SPAD Density Class].

"Layer" and "File" are NOT synonymous.

Several files may have the same Layer membership but each can (and in good practice, should) have different Field associations.

This is true of drawing and image data.

A File is associated with a Grower and Farm by structure. You can move an individual file to a different Grower | Farm and, geography permitting, it will integrate. [There are explicit functions to assure geographic consistency.]

A File is associated with Layer, Field and Season through its own internal content. You can move an individual file to a different Grower | Farm but it will carry its Layer, Field and Season association with it.

There are explicit functions to change the Layer, Field and Season association of a file.

When you check a layer and click Apply, the content of Image and Drawing folder is checked for all files that are members of that layer having the currently selected Season characteristic (drop down) and the currently selected Field association (drop down). Again, if there are several hundred files to open, latency in check-apply can increase.

Layer Operations vs File Operations

The distinction between layers and files (as members of layers) creates a distinction in operations that are performed relative to a layer and those that are performed relative to a file.

Layer operations offer an explicit opportunity to effect or operate on all members of a layer at once. Layer operations are accessed from the Main Menu [examples: Analysis | EACI or II, Analysis | LHStat, Analysis I STA3) or from a right click on a layer [examples: PBN, NSI, Drawing or Image Properties]

File operations are accessed only by a right click on a layer followed by selection of **Files** and then any of the **Display** or **Tools** operations at either the Drawing or Image dialogs. [examples: Drawing Editor, 3D View, File Exports].