



HYPACK Buckets

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The BUCKETS utility enables you to create a DG2 background chart of planned bucket prints to guide your work in a bucket dredging project. The parameters by which you construct the bucket pattern can be stored to a BUD file that you can later reuse in the BUCKETS program to generate a similar bucket pattern for the same area.

To create a bucket pattern along lines from either a channel plan file or an LNW file with a template.

To create a set of buckets:

1. **Open a new, empty BUD file and load the information** into the Add/Create Buckets area.
2. **Enter the parameters to create the array.**
3. **Click [Create Buckets]** and it will add a series of buckets according to the parameters to the file. Alternatively, you can create buckets based on an XYZ file. The program uses the bucket width, length and lane parameters and creates a bucket at every XYZ point in the file.
 - If you create one or more lanes poorly, you can delete a single lane or all buckets through the Edit menu.
 - You can also clip your buckets to a border, if the border has changed.
4. **View the lanes in the Bucket Editor** (FILE-VIEW/EDIT BUCKETS). In the Bucket Editor, you can see all of the lanes and you can enable/disable individual ones. At this point you also want to zoom in and look at the edges of your borders and make sure that they are filled in.
5. **Look for areas where the program left buckets over the edge of the border.**
6. **Align any buckets that extend over the border edge with the border.**

Both	Value
Filename	Jerry.bud
Bucket Count	1962

Data	Value
Line File	C:\HYPACK\Projects\Sample_Dredgepa
Border File	C:\HYPACK\Projects\Sample_Dredgepa
Background File	C:\HYPACK\Projects\Sample_Dredgepa
Bucket Width	25
Bucket Length	30
Radius	300
Overlap Across %	5
Overlap Along %	11
Rows Before Move	4
Move Overlap %	11
Hooks	None
Depth Target	20
Lane Number	6
No. of Buckets	Even

Create Buckets

FIGURE 1. *Editing the Bucket File in the Bucket Editor*

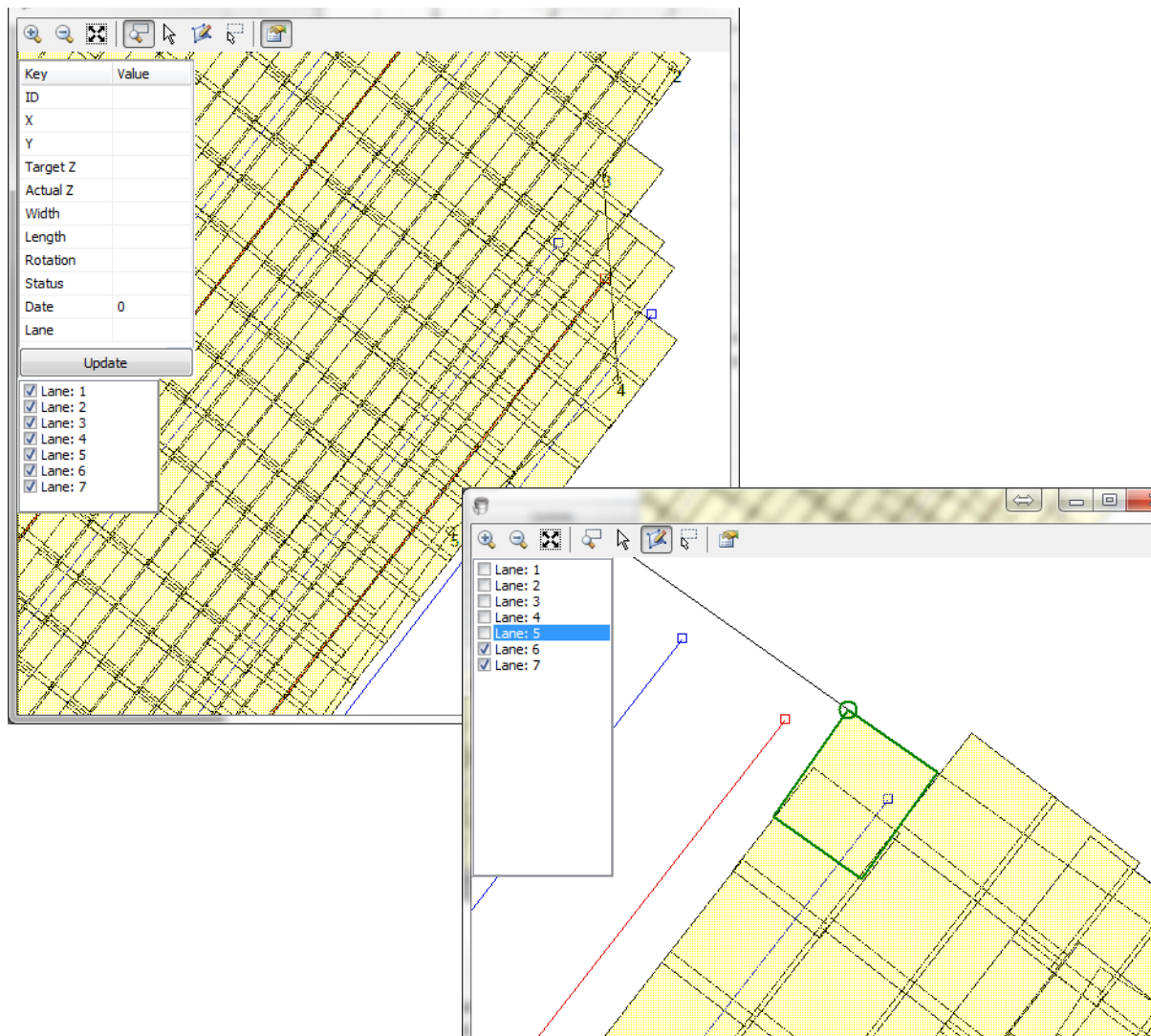


TABLE 1. *Mouse and Keyboard Actions in the Bucket Editor*

Action	Edit Result
Left Mouse	Move and rotate buckets
Shift + Click on several buckets	Select multiple buckets and apply the same edit to them all.
Right-click	Duplicate selected buckets
- Click center mouse button or wheel - Spacebar	Helps align bucket to the nearest border edge. Then there are shortcut keys to help adjust the buckets in small increments.
Arrow Keys	Shift buckets horizontally
Q and W keys	Rotate buckets
Ctrl+A	Selects all visible buckets. This can be useful for copying or deleting a lane.