

ARRAY FORMULAS DEMO

BY
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LAB: ARRAY FORMUAS DEMO

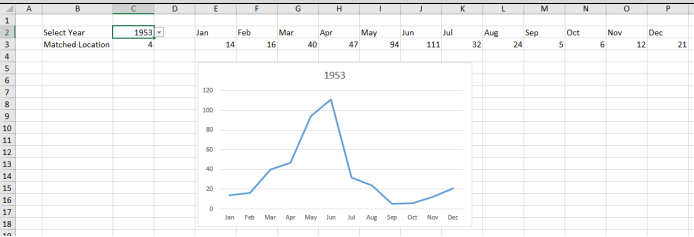
You have been asked to create an interactive lookup chart to display tornadoes for each month for a given year.

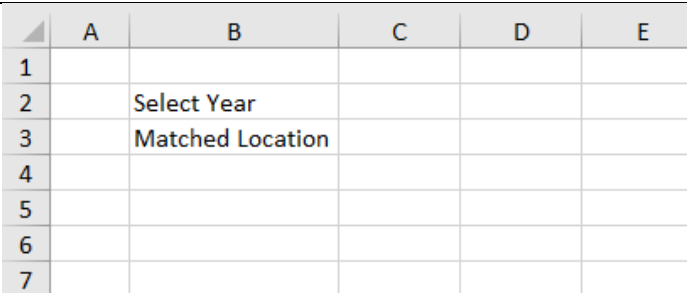
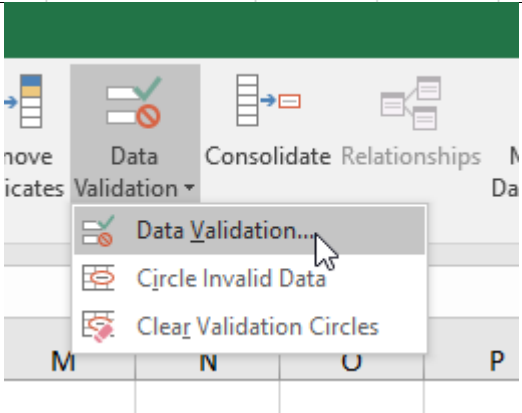
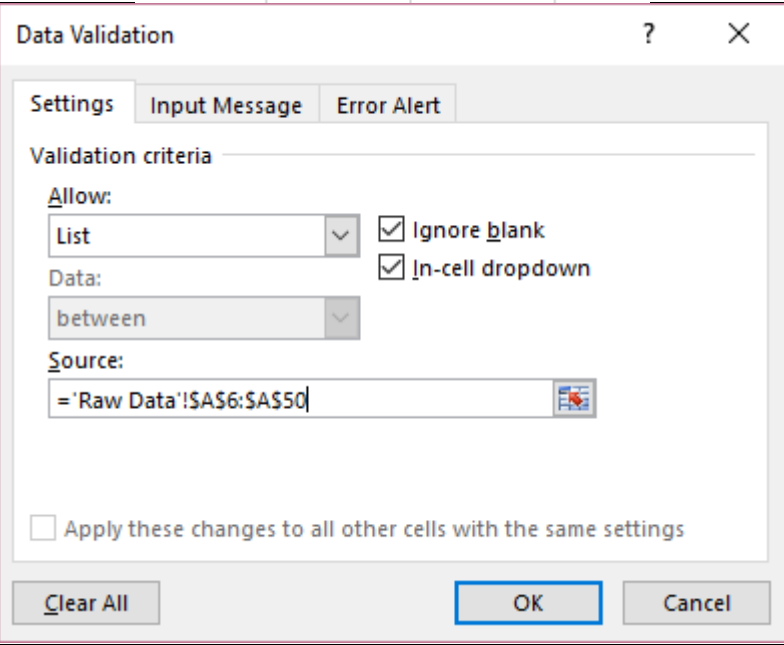
MODULE REQUIREMENTS

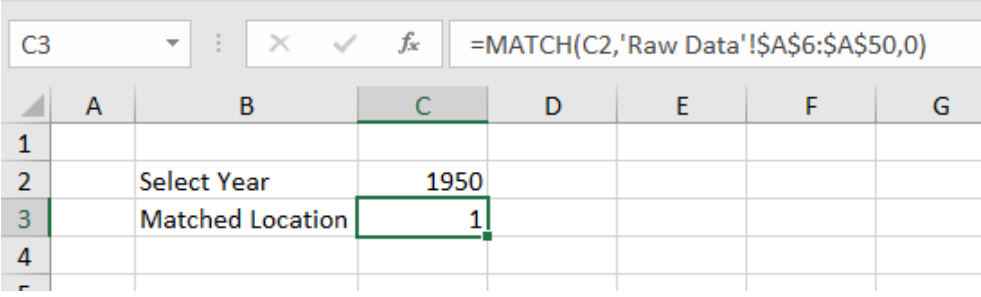
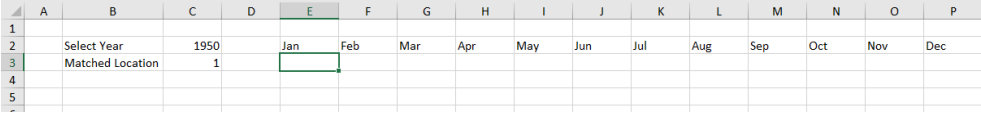
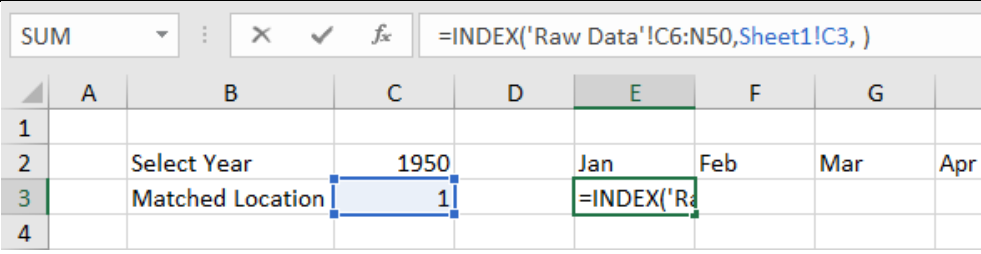
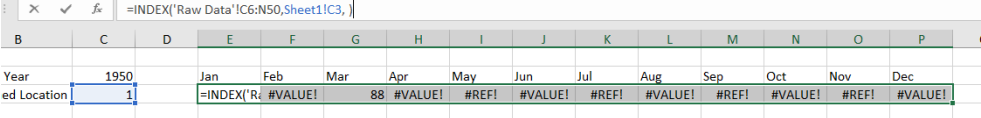
- ▶ Use interactive elements to give the user a choices of which year.
- ▶ Use array formulas to find this information
- ▶ Use charts to display this information.

HINTS

STEP-BY-STEP INSTRUCTIONS

| Click Steps | Screen Shots |
|--|--|
| <div>1. Open the Mod 4-3 Array Formula Lab.xlsx Excel Workbook file from within the module files.</div> <div>2. Begin on the Final tab to investigate how the overall interactivity works.</div> |  |
| <div>3. To recreate this spreadsheet, begin by pressing the new worksheet tab button to create a new blank</div> | |

| Click Steps | Screen Shots |
|--|--|
| worksheet within the workbook. | |
| <p>4. In cells B2 and B3 types "Select Year" and "Matched Index" respectively.</p> |  |
| <p>5. In cells B2 and B3 types "Select Year" and "Matched Index" respectively.</p> |  |
| <p>6. Under the Allow dropdown, select List.</p> <p>7. Select the Source field. Then type '=' and select the list of year list from on the Raw Data tab.</p> <p>8. Press OK.</p> |  |

| Click Steps | Screen Shots |
|--|--|
| <p>9. In cell C2, select the first year from the dropdown list to have a value to work with.</p> <p>10. In cell C3, the MATCH function to find the row location of the value in C2 from within the year list. (See the video demo for a longer discussion on multiple ways to achieve this objective.)</p> |  |
| <p>11. In Cell E2 type Jan. In F2 type Feb. Highlight the two and drag the values until the months of the year appear across E2:P2.</p> |  |
| <p>12. In Cell E3 begin your array formula. Begin by using the formula show in the picture in cell E3. Note the end of the formula includes a comma and an empty space. Press ENTER.</p> |  |
| <p>13. Drag the formula across to cell P3.</p> |  |

Click Steps

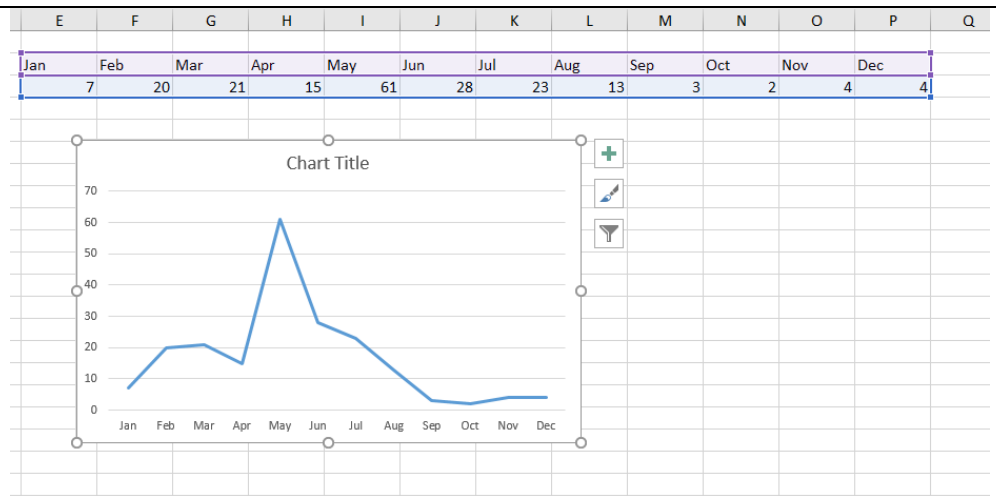
14. With the cell range still selected, click into the formula bar and press CTRL+SHIFT+ENTER.

Screen Shots

{=INDEX('Raw Data'!C6:N50,Sheet1!C3,)}

| | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
|------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| 1950 | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| 1 | | 7 | 20 | 21 | 15 | 61 | 28 | 23 | 13 | 3 | 2 | 4 | 4 | |

15. Highlight cell range E2:P3. From on the Insert tab, select a line chart. A line chart will be generated based on the data selected.



16. Select the Chart Title with your mouse. Click into the Formula bar and type =. Next select cell C2. Press Enter. The year will now change based on your selection.

