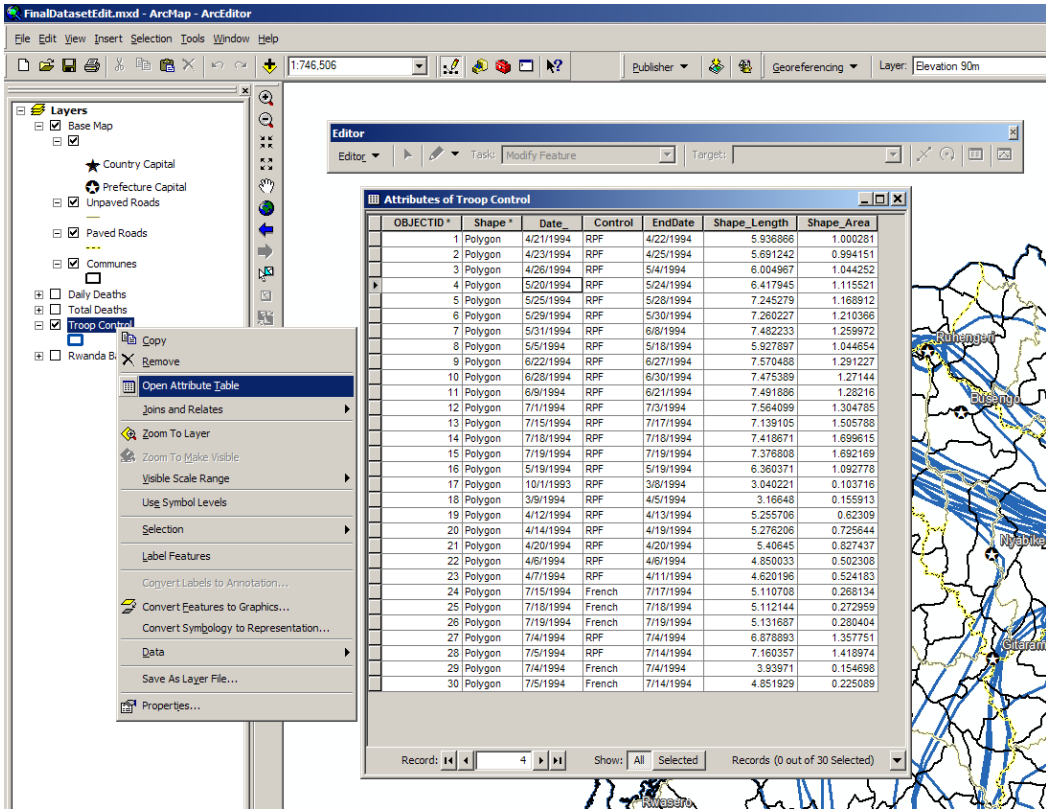
Editing Troop Control Data in ArcMap

• Open “FinalDatasetEdit.mxd”

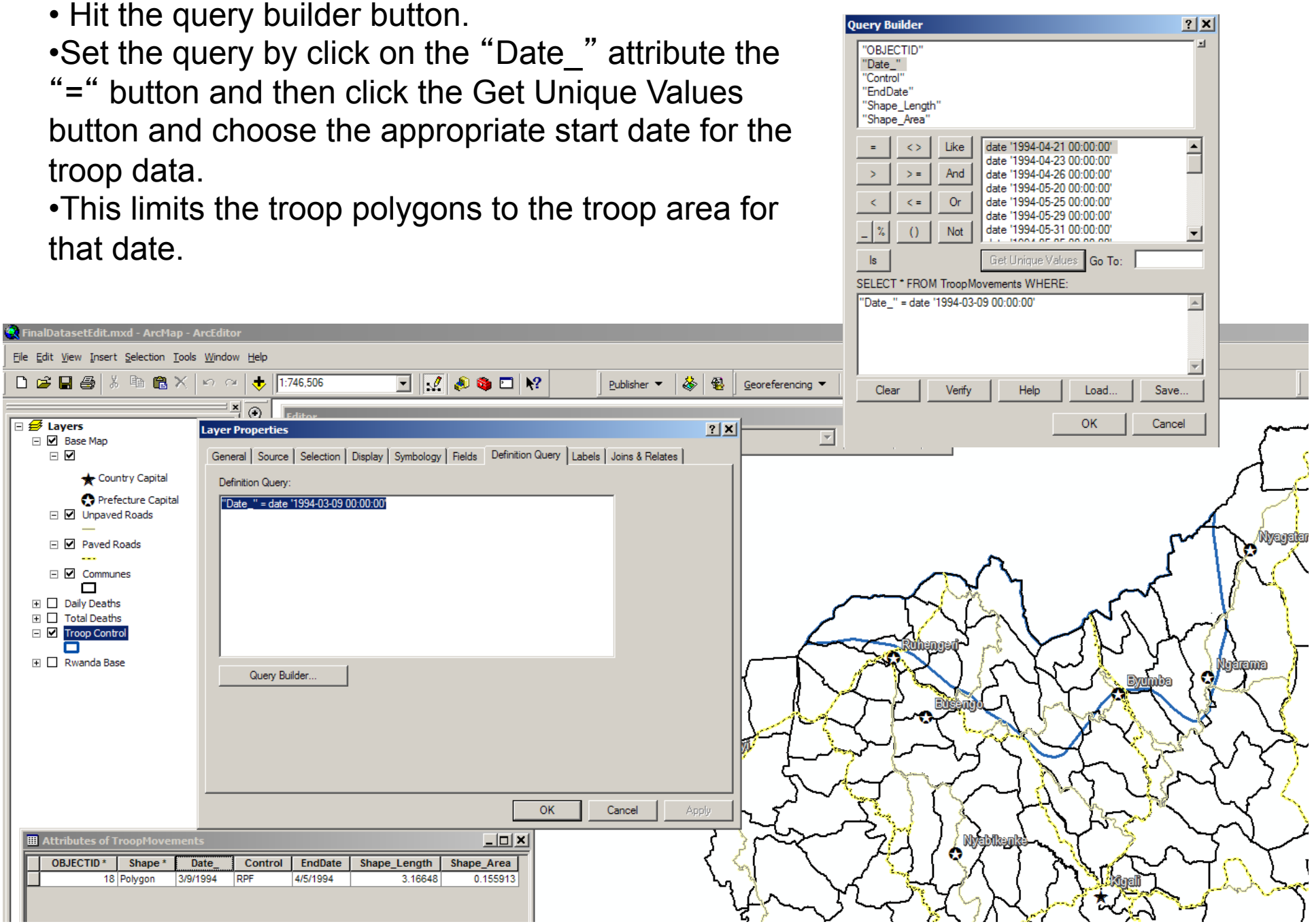
• The first step is to limit the troop control data to the appropriate time slice. Since the troop data overlaps in order to assure you are editing the right troop extent we’ll first set a ‘definition query’ to limit the troop dataset to one time slice.

• First of all right click on the troop control layers and open the attribute table. Park this table someplace so you can clearly see the table and the map.

•Right click again on the layer and select properties, then the definition query tab.



• Hit the query builder button.
•Set the query by click on the “Date_” attribute the “=“ button and then click the Get Unique Values button and choose the appropriate start date for the troop data.
•This limits the troop polygons to the troop area for that date.

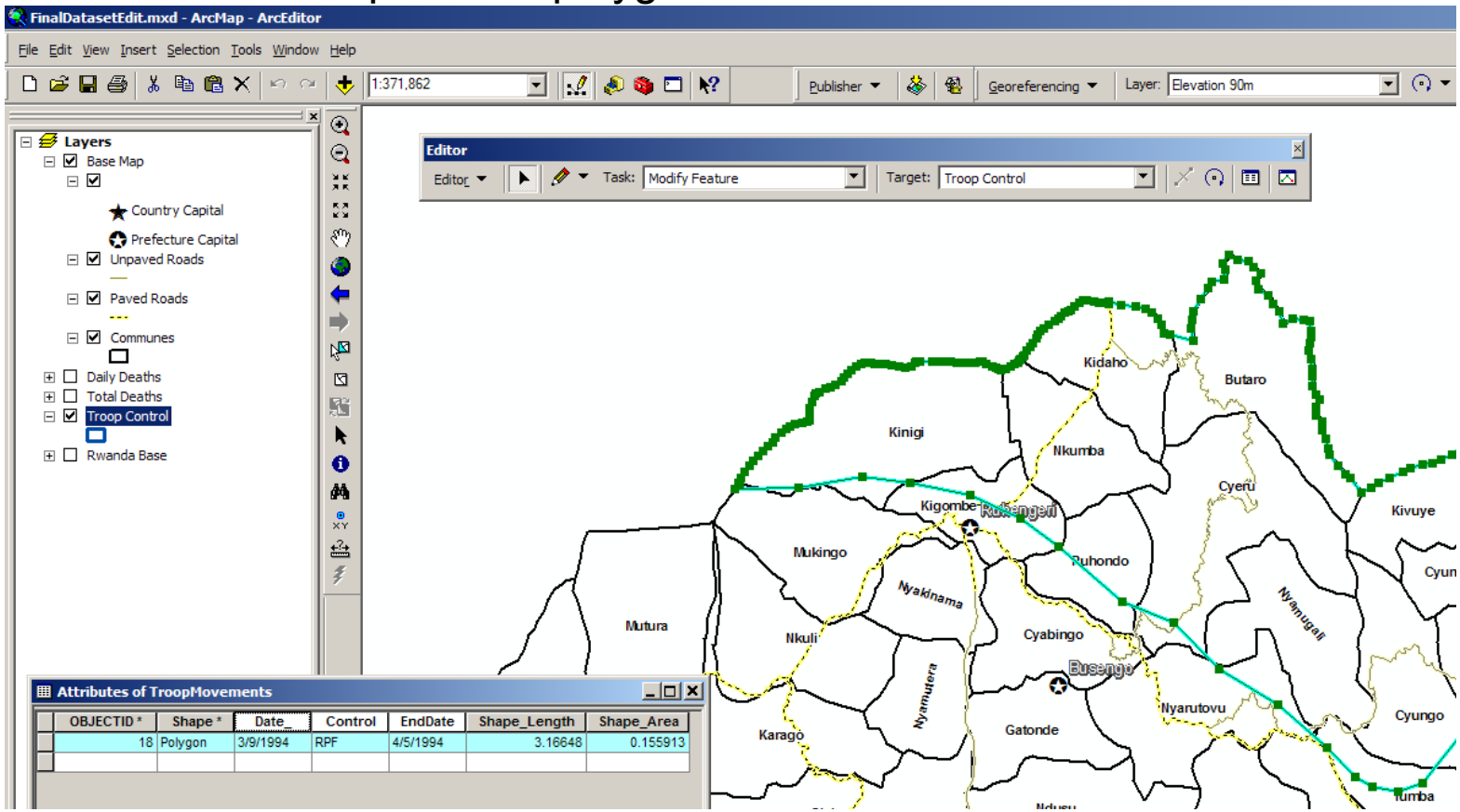


• From the View drop down menu go to Toolbars and make sure the Editor Toolbar is checked.

• Go to the Editor Toolbar and check on Start Editing…

• Set the task to Modify Feature with a target of Troop Control. Then click on the black arrow on the tool bar

• Click anywhere within the troop control polygon



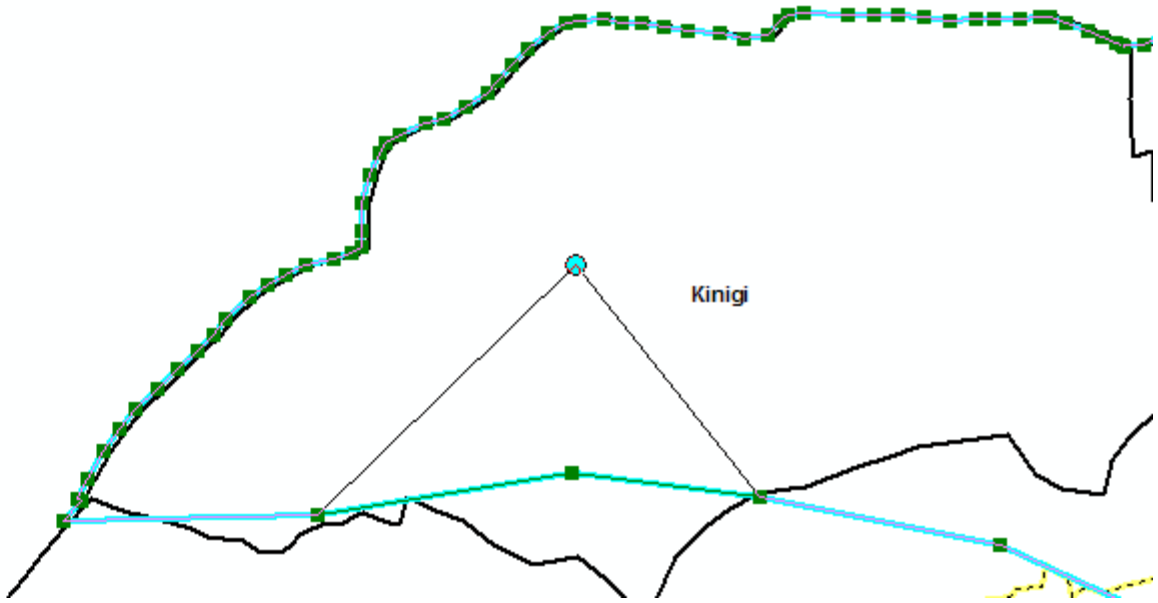
• Mouse over one of the green boxes and drag the node to the desired location.

• Move the nodes as needed to place the polygon boundary based on the new feedback

• On the Editor toolbar select save edits frequently. When you are done editing click Stop Editing.

• Once the polygon is properly adjusted go back to the definition query and pick the next date.

•Repeat until finished updating the troop control polygons.

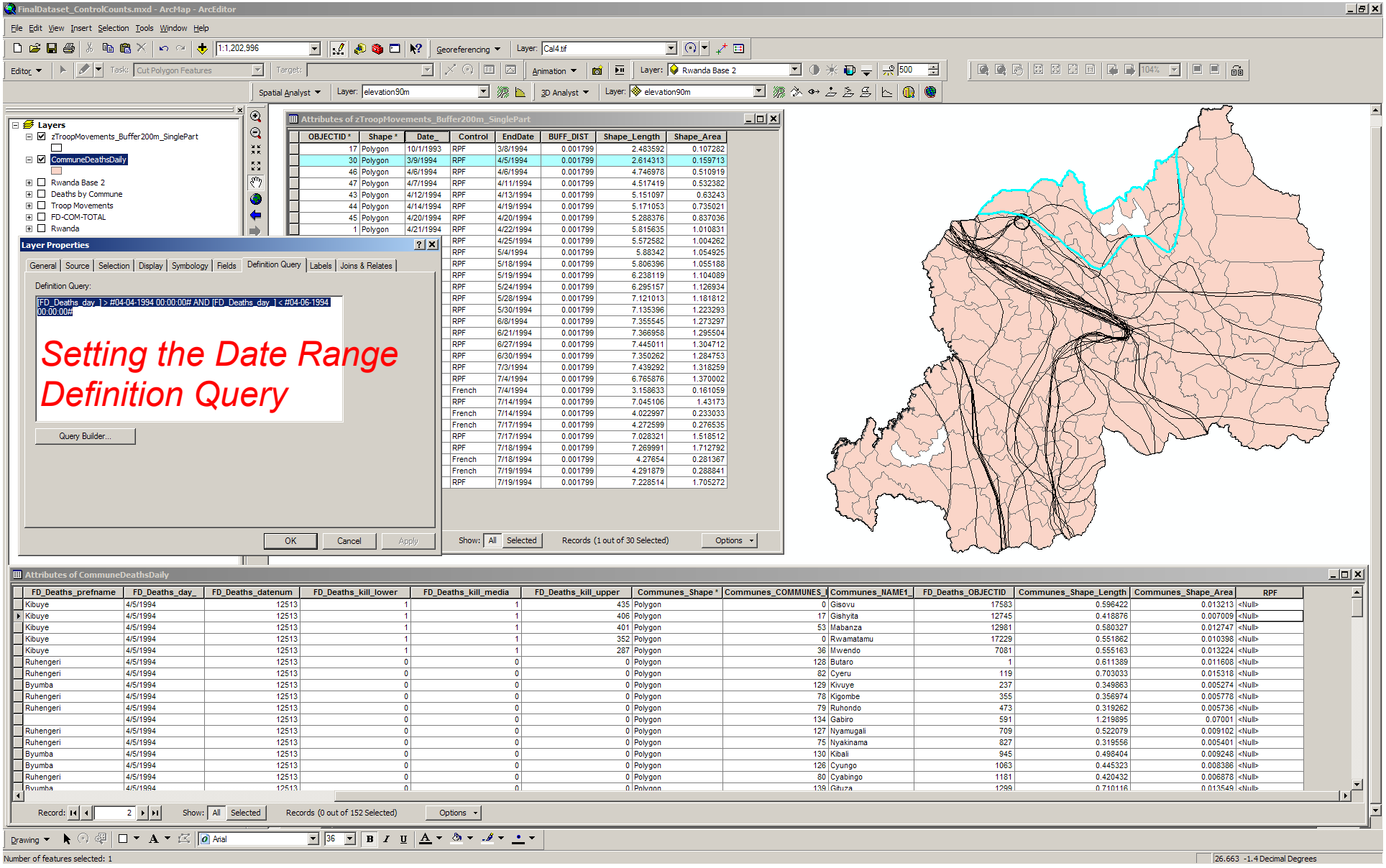


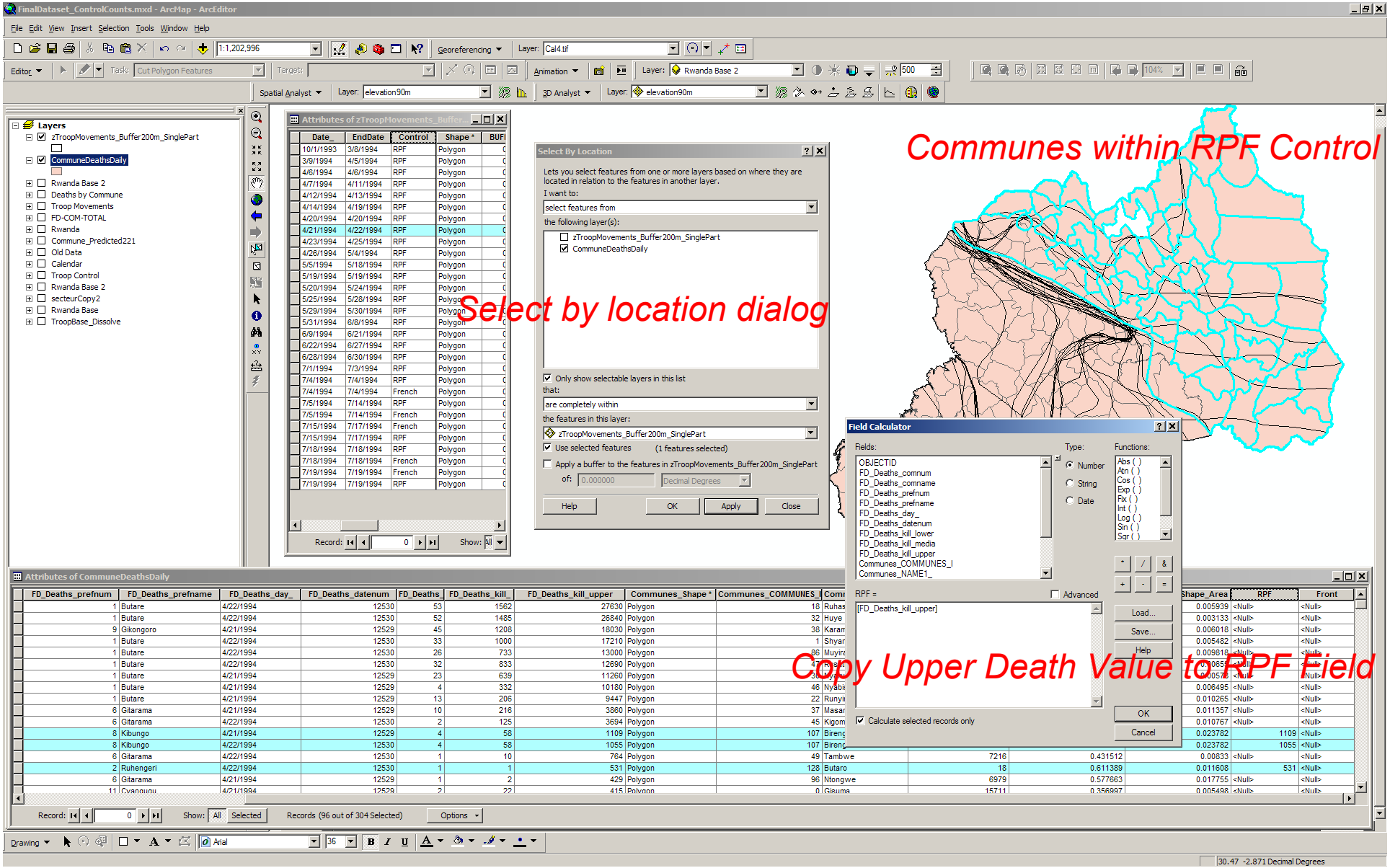
Calculating Troop Control Deaths

Calculation of RPF Control Deaths:

1.Select Initial Date Range for Troop Control Area (as previously described)
2.Use a Definition Query to select only those dates from the total daily death by commune layer
3.Use the Select by Location to select the communes whose boundaries “are completely within” the RPF control area
4.Credit RPF for the deaths by copying the upper death values into a newly added RPF column in the Daily Commune Death Attribute Table
5.Select next Date Range for Troop Control Area and repeat….

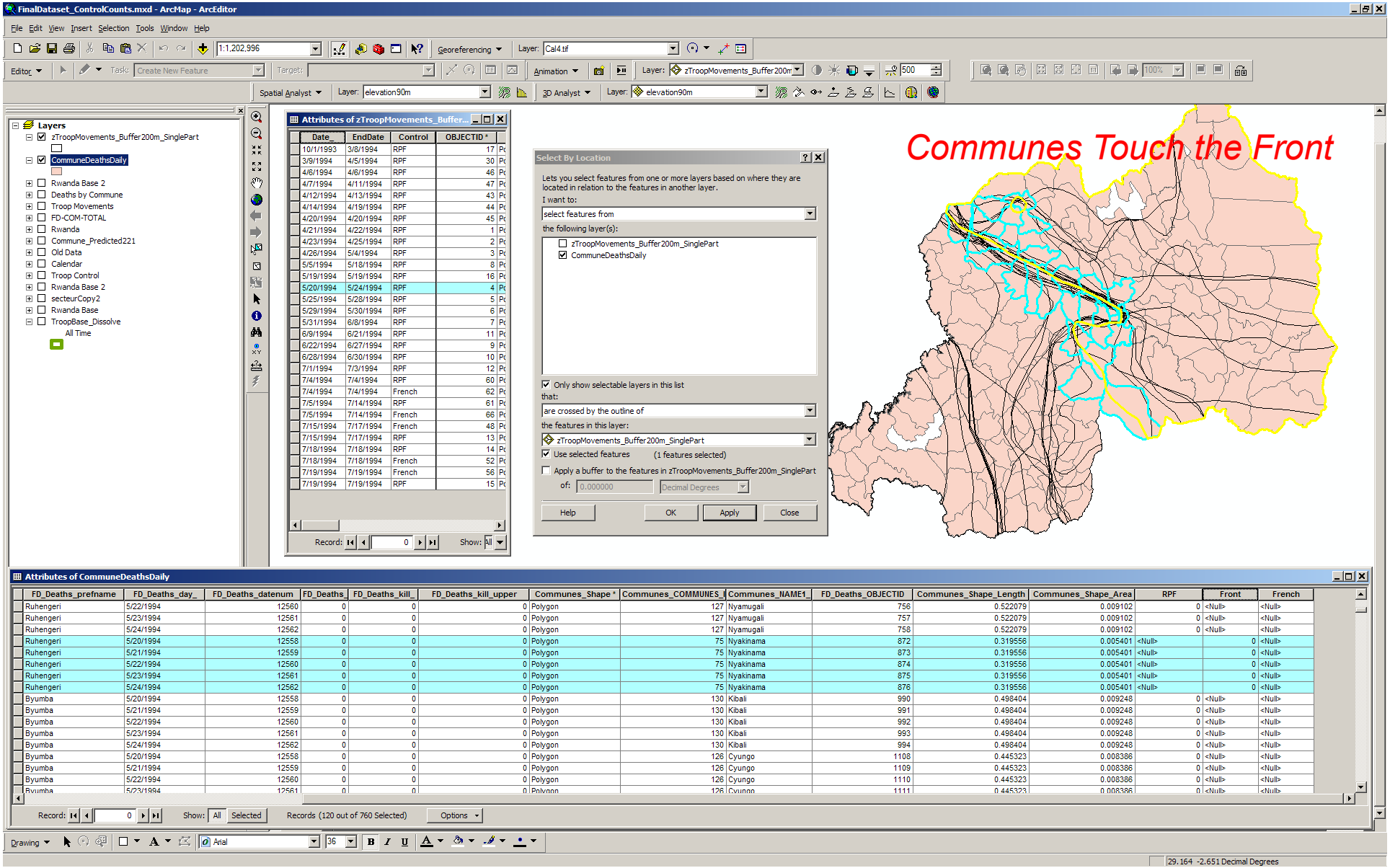
All analysis run in ArcView GIS Software by ESRI

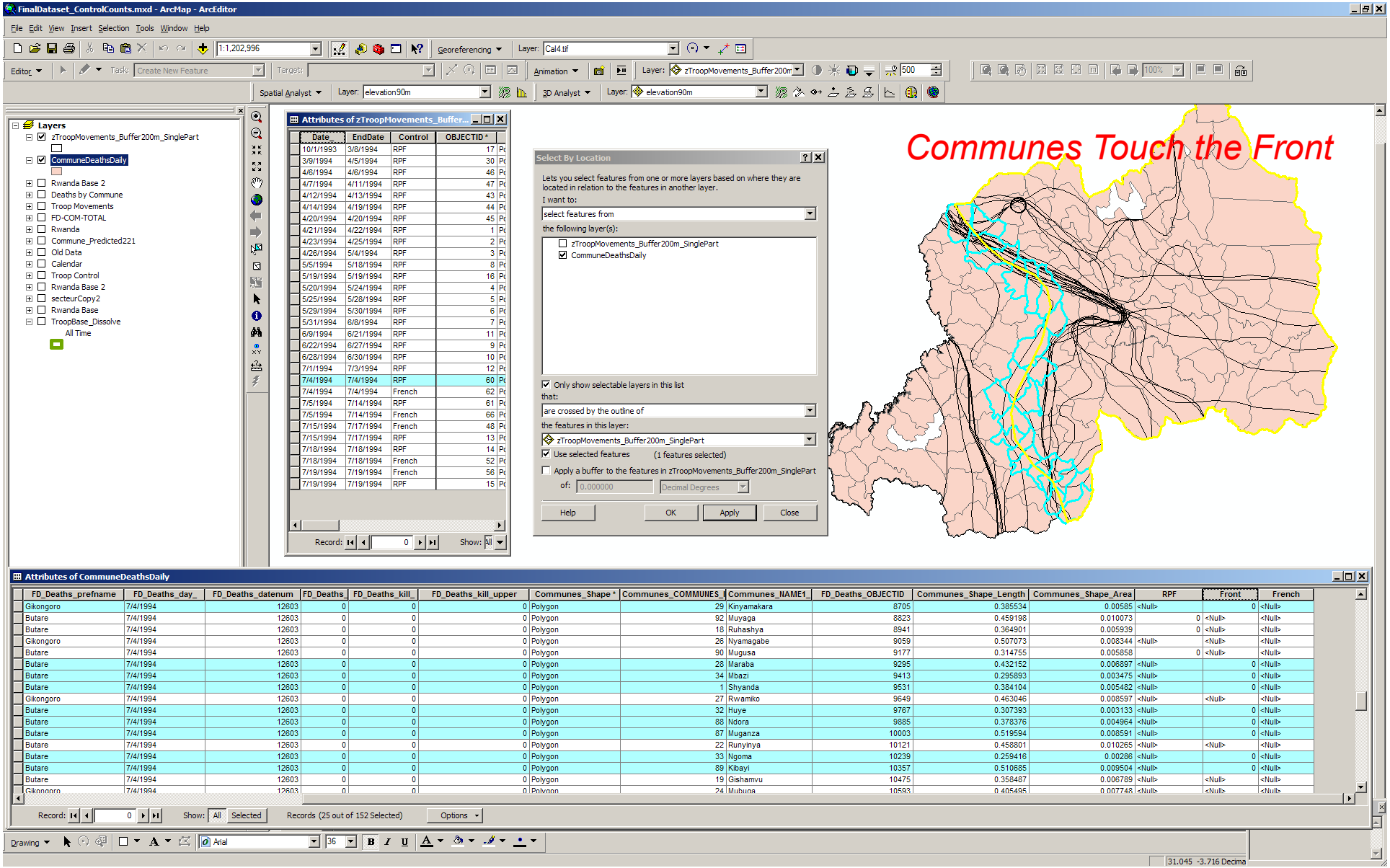

FinalDataset_ControlCounts.mxd - ArcMap - ArcEditor
File Edit View Insert Selection Tools Window Help
Layers
zTroopMovements_Buffer200m_SinglePart
CommuneDeathsDaily
Rwanda Base 2
Deaths by Commune
Troop Movements
FD-COM-TOTAL
Rwanda
Attributes of zTroopMovements_Buffer200m_SinglePart
OBJECTID * | Shape * | Date_ | Control | EndDate | BUFF_DIST | Shape_Length | Shape_Area
17 | Polygon | 10/1/1993 | RPF | 3/8/1994 | 0.001799 | 2.483592 | 0.107282
30 | Polygon | 3/9/1994 | RPF | 4/5/1994 | 0.001799 | 2.614313 | 0.159713
46 | Polygon | 4/6/1994 | RPF | 4/6/1994 | 0.001799 | 4.746978 | 0.510919
47 | Polygon | 4/7/1994 | RPF | 4/11/1994 | 0.001799 | 4.517419 | 0.532382
43 | Polygon | 4/12/1994 | RPF | 4/13/1994 | 0.001799 | 5.151097 | 0.63243
44 | Polygon | 4/14/1994 | RPF | 4/19/1994 | 0.001799 | 5.171053 | 0.735021
45 | Polygon | 4/20/1994 | RPF | 4/20/1994 | 0.001799 | 5.288376 | 0.837036
1 | Polygon | 4/21/1994 | RPF | 4/22/1994 | 0.001799 | 5.815635 | 1.010831
RPF | 4/25/1994 | 0.001799 | 5.572582 | 1.004262
RPF | 5/4/1994 | 0.001799 | 5.88342 | 1.054925
RPF | 5/18/1994 | 0.001799 | 5.806396 | 1.055188
RPF | 5/19/1994 | 0.001799 | 6.238119 | 1.104089
RPF | 5/24/1994 | 0.001799 | 6.295157 | 1.126934
RPF | 5/28/1994 | 0.001799 | 7.121013 | 1.181812
RPF | 5/30/1994 | 0.001799 | 7.135396 | 1.223293
RPF | 6/8/1994 | 0.001799 | 7.355545 | 1.273297
RPF | 6/21/1994 | 0.001799 | 7.366958 | 1.295504
RPF | 6/27/1994 | 0.001799 | 7.445011 | 1.304712
RPF | 6/30/1994 | 0.001799 | 7.350262 | 1.284753
RPF | 7/3/1994 | 0.001799 | 7.439292 | 1.318259
RPF | 7/4/1994 | 0.001799 | 6.765876 | 1.370002
French | 7/4/1994 | 0.001799 | 3.158633 | 0.161059
RPF | 7/14/1994 | 0.001799 | 7.045106 | 1.43173
French | 7/14/1994 | 0.001799 | 4.022997 | 0.233033
French | 7/17/1994 | 0.001799 | 4.272599 | 0.276535
RPF | 7/17/1994 | 0.001799 | 7.028321 | 1.518512
RPF | 7/18/1994 | 0.001799 | 7.269991 | 1.712792
French | 7/18/1994 | 0.001799 | 4.27654 | 0.281367
French | 7/19/1994 | 0.001799 | 4.291879 | 0.288841
RPF | 7/19/1994 | 0.001799 | 7.228514 | 1.705272
Show: All Selected Records (1 out of 30 Selected) Options
Layer Properties
General Source Selection Display Symbology Fields Definition Query Labels Joins & Relates
Definition Query:
[FD_Deaths_day_] > #04-04-1994 00:00:00# AND [FD_Deaths_day_] < #04-06-1994 00:00:00#
Setting the Date Range Definition Query
Query Builder...
OK Cancel Apply
Attributes of CommuneDeathsDaily
FD_Deaths_prefname | FD_Deaths_day_ | FD_Deaths_datenum | FD_Deaths_kill_lower | FD_Deaths_kill_media | FD_Deaths_kill_upper | Communes_Shape * | Communes_COMMUNES_I | Communes_NAME1_ | FD_Deaths_OBJECTID | Communes_Shape_Length | Communes_Shape_Area | RPF
Kibuye | 4/5/1994 | 12513 | 1 | 1 | 435 | Polygon | 0 | Gisovu | 17583 | 0.596422 | 0.013213 | <Null>
Kibuye | 4/5/1994 | 12513 | 1 | 1 | 406 | Polygon | 17 | Gishyita | 12745 | 0.418876 | 0.007009 | <Null>
Kibuye | 4/5/1994 | 12513 | 1 | 1 | 401 | Polygon | 53 | Mabanza | 12981 | 0.580327 | 0.012747 | <Null>
Kibuye | 4/5/1994 | 12513 | 1 | 1 | 352 | Polygon | 0 | Rwamatamu | 17229 | 0.551862 | 0.010398 | <Null>
Kibuye | 4/5/1994 | 12513 | 1 | 1 | 287 | Polygon | 36 | Mwendo | 7081 | 0.555163 | 0.013224 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 128 | Butaro | 1 | 0.611389 | 0.011608 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 82 | Cyeru | 119 | 0.703033 | 0.015318 | <Null>
Byumba | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 129 | Kivuye | 237 | 0.349863 | 0.005274 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 78 | Kigombe | 355 | 0.356974 | 0.005778 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 79 | Ruhondo | 473 | 0.319262 | 0.005736 | <Null>
4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 134 | Gabiro | 591 | 1.219895 | 0.07001 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 127 | Nyamugali | 709 | 0.522079 | 0.009102 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 75 | Nyakinama | 827 | 0.319556 | 0.005401 | <Null>
Byumba | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 130 | Kibali | 945 | 0.498404 | 0.009248 | <Null>
Byumba | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 126 | Cyungo | 1063 | 0.445323 | 0.008386 | <Null>
Ruhengeri | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 80 | Cyabingo | 1181 | 0.420432 | 0.006878 | <Null>
Byumba | 4/5/1994 | 12513 | 0 | 0 | 0 | Polygon | 139 | Gituza | 1299 | 0.710116 | 0.013549 | <Null>
Record: 2 Show: All Selected Records (0 out of 152 Selected) Options
Drawing Arial 36
Number of features selected: 1
26.663 -1.4 Decimal Degrees


FinalDataset_ControlCounts.mxd - ArcMap - ArcEditor
Layers
zTroopMovements_Buffer200m_SinglePart
CommuneDeathsDaily
Rwanda Base 2
Deaths by Commune
Troop Movements
FD-COM-TOTAL
Rwanda
Commune_Predicted221
Old Data
Calendar
Troop Control
Rwanda Base 2
secteurCopy2
Rwanda Base
TroopBase_Dissolve
Attributes of zTroopMovements_Buffer...
Date_ EndDate Control Shape * BUFI
10/1/1993 3/8/1994 RPF Polygon
3/9/1994 4/5/1994 RPF Polygon
4/6/1994 4/6/1994 RPF Polygon
4/7/1994 4/11/1994 RPF Polygon
4/12/1994 4/13/1994 RPF Polygon
4/14/1994 4/19/1994 RPF Polygon
4/20/1994 4/20/1994 RPF Polygon
4/21/1994 4/22/1994 RPF Polygon
4/23/1994 4/25/1994 RPF Polygon
4/26/1994 5/4/1994 RPF Polygon
5/5/1994 5/18/1994 RPF Polygon
5/19/1994 5/19/1994 RPF Polygon
5/20/1994 5/24/1994 RPF Polygon
5/25/1994 5/28/1994 RPF Polygon
5/29/1994 5/30/1994 RPF Polygon
5/31/1994 6/8/1994 RPF Polygon
6/9/1994 6/21/1994 RPF Polygon
6/22/1994 6/27/1994 RPF Polygon
6/28/1994 6/30/1994 RPF Polygon
7/1/1994 7/3/1994 RPF Polygon
7/4/1994 7/4/1994 RPF Polygon
7/4/1994 7/4/1994 French Polygon
7/5/1994 7/14/1994 RPF Polygon
7/5/1994 7/14/1994 French Polygon
7/15/1994 7/17/1994 French Polygon
7/15/1994 7/17/1994 RPF Polygon
7/18/1994 7/18/1994 RPF Polygon
7/18/1994 7/18/1994 French Polygon
7/19/1994 7/19/1994 French Polygon
7/19/1994 7/19/1994 RPF Polygon
Record: 0 Show: All
Select By Location
Lets you select features from one or more layers based on where they are located in relation to the features in another layer.
I want to:
select features from
the following layer(s):
zTroopMovements_Buffer200m_SinglePart
CommuneDeathsDaily
Only show selectable layers in this list
that:
are completely within
the features in this layer:
zTroopMovements_Buffer200m_SinglePart
Use selected features (1 features selected)
Apply a buffer to the features in zTroopMovements_Buffer200m_SinglePart
of: 0.000000 Decimal Degrees
Help OK Apply Close
Communes within RPF Control
Select by location dialog
Field Calculator
Fields:
OBJECTID
FD_Deaths_comnum
FD_Deaths_comname
FD_Deaths_prefnum
FD_Deaths_prefname
FD_Deaths_day_
FD_Deaths_datenum
FD_Deaths_kill_lower
FD_Deaths_kill_media
FD_Deaths_kill_upper
Communes_COMMUNES_I
Communes_NAME1_
Type: Number String Date
Functions:
Abs ( )
Atn ( )
Cos ( )
Exp ( )
Fix ( )
Int ( )
Log ( )
Sin ( )
Sqr ( )
RPF = Advanced
[FD_Deaths_kill_upper]
Load... Save... Help
Calculate selected records only
OK Cancel
Copy Upper Death Value to RPF Field
Attributes of CommuneDeathsDaily
FD_Deaths_prefnum FD_Deaths_prefname FD_Deaths_day_ FD_Deaths_datenum FD_Deaths_ FD_Deaths_kill_ FD_Deaths_kill_upper Communes_Shape * Communes_COMMUNES_I Comi Shape_Area RPF Front
1 Butare 4/22/1994 12530 53 1562 27630 Polygon 18 Ruhas 0.005939 <Null> <Null>
1 Butare 4/22/1994 12530 52 1485 26840 Polygon 32 Huye 0.003133 <Null> <Null>
9 Gikongoro 4/21/1994 12529 45 1208 18030 Polygon 38 Karam 0.006018 <Null> <Null>
1 Butare 4/22/1994 12530 33 1000 17210 Polygon 1 Shyar 0.005482 <Null> <Null>
1 Butare 4/22/1994 12530 26 733 13000 Polygon 86 Muyira 0.009818 <Null> <Null>
1 Butare 4/22/1994 12530 32 833 12690 Polygon 47 Ruhas 0.006652 <Null> <Null>
1 Butare 4/21/1994 12529 23 639 11260 Polygon 30 Huye 0.00578 <Null> <Null>
1 Butare 4/21/1994 12529 4 332 10180 Polygon 46 Nyabi 0.006495 <Null> <Null>
1 Butare 4/21/1994 12529 13 206 9447 Polygon 22 Runyi 0.010265 <Null> <Null>
6 Gitarama 4/21/1994 12529 10 216 3860 Polygon 37 Masar 0.011357 <Null> <Null>
6 Gitarama 4/22/1994 12530 2 125 3694 Polygon 45 Kigom 0.010767 <Null> <Null>
8 Kibungo 4/21/1994 12529 4 58 1109 Polygon 107 Bireng 0.023782 1109 <Null>
8 Kibungo 4/22/1994 12530 4 58 1055 Polygon 107 Bireng 0.023782 1055 <Null>
6 Gitarama 4/22/1994 12530 1 10 764 Polygon 49 Tambwe 7216 0.431512 0.00833 <Null> <Null>
2 Ruhengeri 4/22/1994 12530 1 1 531 Polygon 128 Butaro 18 0.611389 0.011608 531 <Null>
6 Gitarama 4/21/1994 12529 1 2 429 Polygon 96 Ntongwe 6979 0.577663 0.017755 <Null> <Null>
11 Cyangugu 4/21/1994 12529 2 22 415 Polygon 0 Gisuma 15711 0.356997 0.005498 <Null> <Null>
Record: 0 Show: All Selected Records (96 out of 304 Selected) Options
30.47 -2.871 Decimal Degrees

Calculation of FRONT Deaths:

1.Select Initial Date Range for Troop Control Area
2.Use a Definition Query to select only those dates from the total daily death by commune layer
3.Use the Select by Location to select the communes whose boundaries “are crossed by the outline of” the RPF control area
4.Credit FRONT for the deaths by copying the upper death values into a newly added FRONT column in the Daily Commune Death Attribute Table
5.Select next Date Range for Troop Control Area and repeat….


FinalDataset_ControlCounts.mxd - ArcMap - ArcEditor
Communes Touch the Front
Attributes of zTroopMovements_Buffer...
Select By Location
Lets you select features from one or more layers based on where they are located in relation to the features in another layer.
I want to:
select features from
the following layer(s):
zTroopMovements_Buffer200m_SinglePart
CommuneDeathsDaily
Only show selectable layers in this list
that:
are crossed by the outline of
the features in this layer:
zTroopMovements_Buffer200m_SinglePart
Use selected features
(1 features selected)
Apply a buffer to the features in zTroopMovements_Buffer200m_SinglePart
of:
Help
OK
Apply
Close
Attributes of CommuneDeathsDaily
Records (120 out of 760 Selected)
Options



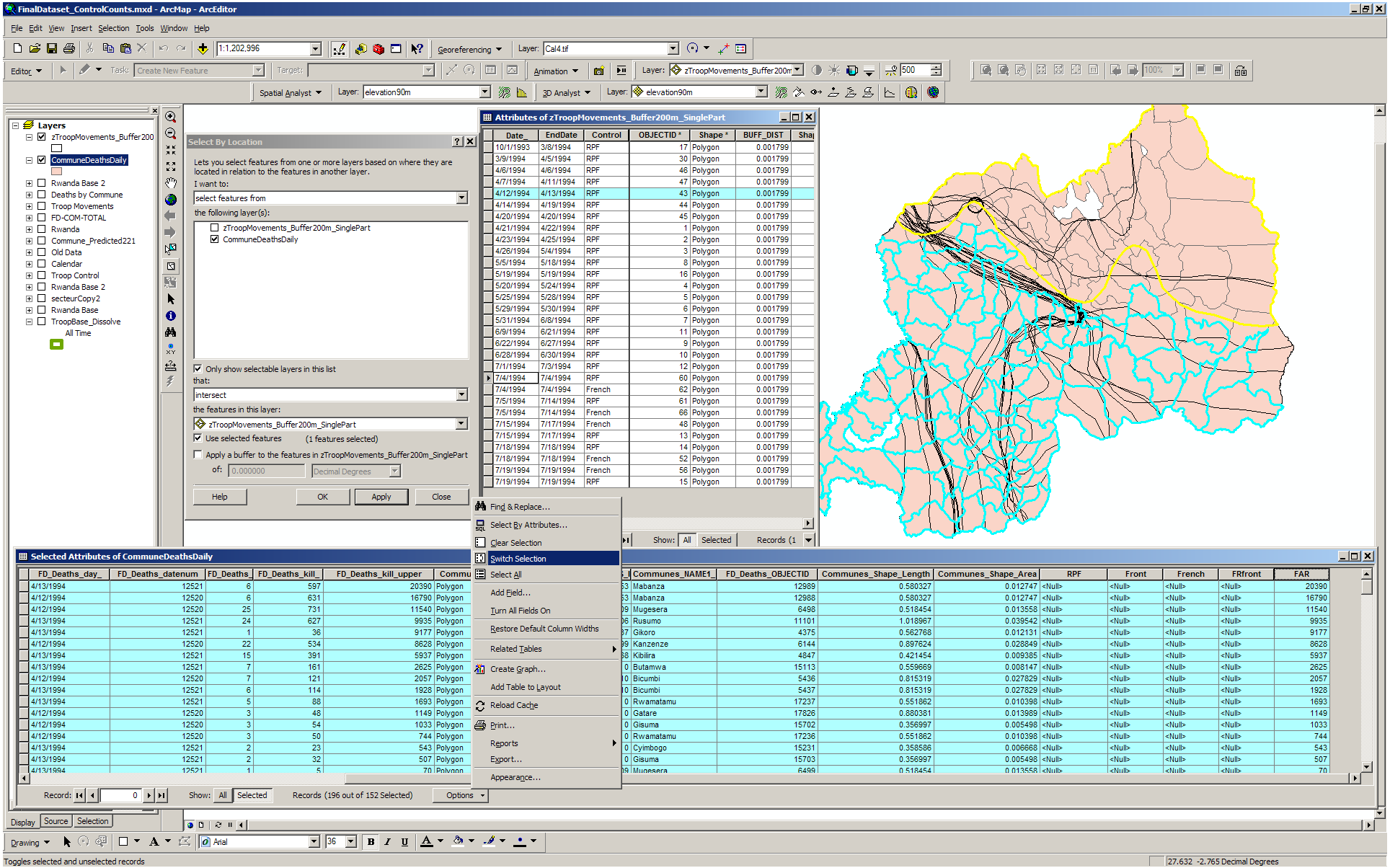
Date_	EndDate	Control	OBJECTID *
10/1/1993	3/8/1994	RPF	17
3/9/1994	4/5/1994	RPF	30
4/6/1994	4/6/1994	RPF	46
4/7/1994	4/11/1994	RPF	47
4/12/1994	4/13/1994	RPF	43
4/14/1994	4/19/1994	RPF	44
4/20/1994	4/20/1994	RPF	45
4/21/1994	4/22/1994	RPF	1
4/23/1994	4/25/1994	RPF	2
4/26/1994	5/4/1994	RPF	3
5/5/1994	5/18/1994	RPF	8
5/19/1994	5/19/1994	RPF	16
5/20/1994	5/24/1994	RPF	4
5/25/1994	5/28/1994	RPF	5
5/29/1994	5/30/1994	RPF	6
5/31/1994	6/8/1994	RPF	7
6/9/1994	6/21/1994	RPF	11
6/22/1994	6/27/1994	RPF	9
6/28/1994	6/30/1994	RPF	10
7/1/1994	7/3/1994	RPF	12
7/4/1994	7/4/1994	RPF	60
7/4/1994	7/4/1994	French	62
7/5/1994	7/14/1994	RPF	61
7/5/1994	7/14/1994	French	66
7/15/1994	7/17/1994	French	48
7/15/1994	7/17/1994	RPF	13
7/18/1994	7/18/1994	RPF	14
7/18/1994	7/18/1994	French	52
7/19/1994	7/19/1994	French	56
7/19/1994	7/19/1994	RPF	15

FD_Deaths_prefname	FD_Deaths_day_	FD_Deaths_datenum	FD_Deaths_	FD_Deaths_kill_	FD_Deaths_kill_upper	Communes_Shape *	Communes_COMMUNES_I	Communes_NAME1_	FD_Deaths_OBJECTID	Communes_Shape_Length	Communes_Shape_Area	RPF	Front	French
Gikongoro	7/4/1994	12603	0	0	0	Polygon	29	Kinyamakara	8705	0.385534	0.00585	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	92	Muyaga	8823	0.459198	0.010073	0	<Null>	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	18	Ruhashya	8941	0.364901	0.005939	0	<Null>	<Null>
Gikongoro	7/4/1994	12603	0	0	0	Polygon	26	Nyamagabe	9059	0.507073	0.008344	<Null>	<Null>	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	90	Mugusa	9177	0.314755	0.005858	0	<Null>	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	28	Maraba	9295	0.432152	0.006897	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	34	Mbazi	9413	0.295893	0.003475	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	1	Shyanda	9531	0.384104	0.005482	<Null>	0	<Null>
Gikongoro	7/4/1994	12603	0	0	0	Polygon	27	Rwamiko	9649	0.463046	0.008597	<Null>	<Null>	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	32	Huye	9767	0.307393	0.003133	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	88	Ndora	9885	0.378376	0.004964	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	87	Muganza	10003	0.519594	0.008591	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	22	Runyinya	10121	0.458801	0.010265	<Null>	<Null>	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	33	Ngoma	10239	0.259416	0.00286	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	89	Kibayi	10357	0.510685	0.009504	<Null>	0	<Null>
Butare	7/4/1994	12603	0	0	0	Polygon	19	Gishamvu	10475	0.358487	0.006789	<Null>	<Null>	<Null>
Gikongoro	7/4/1994	12603	0	0	0	Polygon	24	Mukuna	10593	0.405495	0.007748	<Null>	<Null>	<Null>

Calculation of FAR Deaths:

1.Select Initial Date Range for Troop Control Area
2.Use a Definition Query to select only those dates from the total daily death by commune layer
3.Use the Select by Location to select the communes whose boundaries “intersect” (meaning touch in anyway) the RPF control area
4.Select the opposite Communes
5.Credit FAR for the deaths by copying the upper death values into a newly added FAR column in the Daily Commune Death Attribute Table
6.Select next Date Range for Troop Control Area and repeat….

Control Deaths and Front Deaths were also calculated for the French Army


FinalDataset_ControlCounts.mxd - ArcMap - ArcEditor
File Edit View Insert Selection Tools Window Help
Layers
zTroopMovements_Buffer200
CommuneDeathsDaily
Rwanda Base 2
Deaths by Commune
Troop Movements
FD-COM-TOTAL
Rwanda
Commune_Predicted221
Old Data
Calendar
Troop Control
Rwanda Base 2
secteurCopy2
Rwanda Base
TroopBase_Dissolve
All Time
Select By Location
Lets you select features from one or more layers based on where they are located in relation to the features in another layer.
I want to:
select features from
the following layer(s):
zTroopMovements_Buffer200m_SinglePart
CommuneDeathsDaily
Only show selectable layers in this list
that:
intersect
the features in this layer:
zTroopMovements_Buffer200m_SinglePart
Use selected features (1 features selected)
Apply a buffer to the features in zTroopMovements_Buffer200m_SinglePart
of:
Help
OK
Apply
Close
Attributes of zTroopMovements_Buffer200m_SinglePart
Date_ EndDate Control OBJECTID * Shape * BUFF_DIST
10/1/1993 3/8/1994 RPF 17 Polygon 0.001799
3/9/1994 4/5/1994 RPF 30 Polygon 0.001799
4/6/1994 4/6/1994 RPF 46 Polygon 0.001799
4/7/1994 4/11/1994 RPF 47 Polygon 0.001799
4/12/1994 4/13/1994 RPF 43 Polygon 0.001799
4/14/1994 4/19/1994 RPF 44 Polygon 0.001799
4/20/1994 4/20/1994 RPF 45 Polygon 0.001799
4/21/1994 4/22/1994 RPF 1 Polygon 0.001799
4/23/1994 4/25/1994 RPF 2 Polygon 0.001799
4/26/1994 5/4/1994 RPF 3 Polygon 0.001799
5/5/1994 5/18/1994 RPF 8 Polygon 0.001799
5/19/1994 5/19/1994 RPF 16 Polygon 0.001799
5/20/1994 5/24/1994 RPF 4 Polygon 0.001799
5/25/1994 5/28/1994 RPF 5 Polygon 0.001799
5/29/1994 5/30/1994 RPF 6 Polygon 0.001799
5/31/1994 6/8/1994 RPF 7 Polygon 0.001799
6/9/1994 6/21/1994 RPF 11 Polygon 0.001799
6/22/1994 6/27/1994 RPF 9 Polygon 0.001799
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Select By Attributes...
Clear Selection
Switch Selection
Select All
Add Field...
Turn All Fields On
Restore Default Column Widths
Related Tables
Create Graph...
Add Table to Layout
Reload Cache
Print...
Reports
Export...
Appearance...
Selected Attributes of CommuneDeathsDaily
FD_Deaths_day_ FD_Deaths_datenum FD_Deaths_ FD_Deaths_kill_ FD_Deaths_kill_upper Commu Communes_NAME1_ FD_Deaths_OBJECTID Communes_Shape_Length Communes_Shape_Area RPF Front French FRfront FAR
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Show: All Selected
Records (196 out of 152 Selected)
Options
Display Source Selection
Drawing
Arial
Toggles selected and unselected records
27.632 -2.765 Decimal Degrees