Guide for Basic Analysis PC queries to create
RIC (Range In Characteristics)
Reports for Soil Series

By

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Master Queries: A, B, and C are the only ones I happened to need to produce RIC (Range In Characteristics) criteria for the particular series I was looking at during the time I wrote this guide. The master queries and the sub-queries can be altered or customized in order to create a report showing whatever soil feature needs to be illustrated.

Note: The records you have selected as your selected set in Analysis PC will be the same records that will be in your reports.

{Your created analysis selected set} should be linked as …. Left table: {Your created analysis selected set}; Right table: site; Left column: siteiid; Right column: siteiid …. This applies to only the A, B, and C queries. All of the sub-queries (U_Color_Dry, V_Color_Moist, W_PVSF, X_Concentrations, Y_FMP, Z_Frags) and expressions shown in the following pages run in the background and should not have {Your created analysis selected set} in them, that is what the master queries are for.

Note: The first letter of all master and sub-queries, i.e. A, B, C, U, V, W, X, Y, Z is only the naming convention being used. These letters have no underlying meaning.

- Create a folder on your C:Drive named RIC (Right click, select new, click folder and rename).

- Create a new empty access database named RIC.mdb (or RIC.accdb) in the RIC folder (Open the RIC folder, right click, select new, click Microsoft Office Access Application and rename).

- Create another folder named RIC_Reports in the RIC folder (Open the RIC folder, right click, select new, click folder and rename)

Select whatever feature you want to look at from the A, B, and C queries and change the query to a "make table query", then direct it to save the table to the RIC.mdb (or RIC.accdb) database in your RIC folder. Create and format your reports from the RIC.mdb (or RIC.accdb) database. Export each individual report as a rich text file (.rtf) and save in the RIC_Reports folder. Once finished open Adobe Acrobat, select create PDF, then create PDF from multiple files. Select the files (your rich text file reports) order them in sequence and click create. Select save as and name the PDF.

Note: If for some reason, you decide that a record you had in your selected set does not belong in your table after you have made it.

1. Remove it from your selected set
2. Re-run the query as a make table query and direct it to save in the RIC database using the same table name, you will be replacing the previous table you made under that name.

<u>Master Queries</u>

A_Query: (RIC - Texture, Color, pH, and Effervescence)

usiteid
- Show
- Sort ascending
- Table Name: {your created analysis selected set}

Depth: [phorizon]![hzdept] & " - " & [phorizon]![hzdepb]
- Show

hzname
- Show
- Table Name: phorizon

hzTex: [phorizon]![texture] & " " & "S%" & " " & [phorizon]![sandtotest] & " " & "C%" & " " & [phorizon]![claytotest] & " " & [phorizon]![texture_s]
- Show

ColorpctD: [U_Color_Dry]![colorpct]
- Show
- Left table phorizon
- Right table U_Color_Dry
- Left column name: phiid
- Right column name: phiidref

ColorD: [U_Color_Dry]![DryColor]
- Show
- Left table phorizon
- Right table U_Color_Dry
- Left column name: phiid
- Right column name: phiidref

ColorpctM: [V_Color_Moist]![colorpct]
- Show
- Left table phorizon
- Right table V_Color_Moist
- Left column name: phiid
- Right column name: phiidref

ColorM: [V_Color_Moist]![MoistColor]

- Show
- Left table phorizon
- Right table V_Color_Moist
- Left column name: phiid
- Right column name: phiidref

Eff_pH: [phorizon]![effclass] & " " & [phorizon]![phfield]

- Show

siteiid

- Do not show
- Table Name: site

hzdept

- Do not show
- Sort ascending
- Table Name: phorizon

B_Query: (RIC - PVSF and Concentrations)

usiteid
- Show
- Sort ascending
- Table Name: {your created analysis selected set}

Depth: Depth: [phorizon]![hzdept] & " - " & [phorizon]![hzdepb]
- Show

hzname
- Show
- Table Name: phorizon

PVSF: [W_PVSF]![pvsfpct] & "% " & [W_PVSF]![pvsfdistinct] & " " & [W_PVSF]![pvsfcont] & " " & [W_PVSF]![pvsfkind] & " " & [W_PVSF]![pvsflocation]
- Show
- Left table phorizon
- Right table W_PVSF
- Left column name: phiid
- Right column name: phiid

Concentrations: [X_Concentrations]![concpct] & "% " & [X_Concentrations]![concsize] & " " & [X_Concentrations]![conccntrst] & " " & [X_Concentrations]![concboundary] & " " & [X_Concentrations]![concshape]
& " " & [X_Concentrations]![conckind] & " " & [X_Concentrations]![conclocation]
- Show
- Left table phorizon
- Right table X_Concentrations
- Left column name: phiid
- Right column name: phiid

siteiid
- Do not show
- Table Name: site

hzdept
- Do not show
- Sort ascending
- Table Name: phorizon

C_Query: (RIC - CaCO3 Equiv and Frags)

usiteid
- Show
- Sort ascending
- Table Name: {your created analysis selected set}

Depth: Depth: [phorizon]![hzdept] & " - " & [phorizon]![hzdepb]
- Show

hzname
- Show
- Table Name: phorizon

CaCO3_equiv: [Y_FMP]![fmpvalue] & " " & [Y_FMP]![fmpunits]
- Show
- Left table phorizon
- Right table Y_FMP
- Left column name: phiid
- Right column name: phiid

Fragments: [Z_Frags]![fragvol] & "% " & [Z_Frags]![fragshp] & " " & [Z_Frags]![fraground] & " " & [Z_Frags]![fragkind]
- Show
- Left table phorizon
- Right table Z_Frags
- Left column name: phiid
- Right column name: phiid

siteiid
- Do not show
- Table Name: site

hzdept
- Do not show
- Sort ascending
- Table Name: phorizon

<u>Sub-Queries</u>

U_Color_Dry
colorpct
- Show
- Table Name: q_phorizon_color

DryColor: color
- Show
- Table Name: q_phorizon_color

phiidref
- Show
- Table Name: q_phorizon_color

[phcolor]![colormoiststt]
- Do not show
- Criteria: “Dry”

siteiid
- Do not show
- Table Name: q_phorizon_color

V_Color_Moist

colorpct

- Show
- Table Name: q_phorizon_color

MoistColor: color

- Show
- Table Name: q_phorizon_color

phiidref

- Show
- Table Name: q_phorizon_color

[phcolor]![colormoiststt]

- Do not show
- Criteria: “Moist”

siteiid

- Do not show
- Table Name: q_phorizon_color

W_PVSF:

siteiid
- Show
- Table Name: site

usiteid
- Show
- Table Name: site
- Criteria: < >”placeholder”

peiid
- Show
- Table Name: pedon

upedonid
- Show
- Table Name: pedon
- Criteria: < >”placeholder”

pvsfpct
- Show
- Table Name: phpvsf

designmaster
- Show
- Table Name: phorizon

pvsfdistinct
- Show
- Table Name: phpvsf

pvsfcont
- Show
- Table Name: phpvsf

pvsfkind
- Show
- Table Name: phpvsf

pvsflocation
- Show
- Table Name: phpvsf

phiid
- Show
- Table Name: phorizon

X_Concentrations:

siteiid
- Show
- Table Name: site

usiteid
- Show
- Table Name: site
- Criteria: < >”placeholder”

peiid
- Show
- Table Name: pedon

upedonid
- Show
- Table Name: pedon
- Criteria: < >”placeholder”

concpct
- Show
- Table Name: phconcs

colorpct
- Show
- Table Name: phconccolor

designmaster
- Show
- Table Name: phorizon

concsize
- Show
- Table Name: phconcs

conccntrst
- Show
- Table Name: phconcs

conchardness
- Show
- Table Name: phconcs

concshape
- Show
- Table Name: phconcs

conckind
- Show
- Table Name: phconcs

conclocation
- Show
- Table Name: phconcs

concboundary
- Show
- Table Name: phconcs

colorhue
- Show
- Table Name: phconccolor

colorvalue
- Show
- Table Name: phconccolor

colorchroma
- Show
- Table Name: phconccolor

colormoiststt
- Show
- Table Name: phconccolor

phiid
- Show
- Table Name: phorizon

Y_FMP:

siteiid
- Show
- Table Name: site

usiteid
- Show
- Table Name: site
- Criteria: < >”placeholder”

peiid
- Show
- Table Name: pedon

upedonid
- Show
- Table Name: pedon
- Criteria: < >”placeholder”

fmpvalue
- Show
- Table Name: phfmp

fmpunits
- Show
- Table Name: phfmp

fmpname
- Show
- Table Name: phfmp
- Criteria: like “CaCO3 (E*”

phiid
- Show
- Table Name: phorizon

Z_Frags:

siteiid
- Show
- Table Name: site

usiteid
- Show
- Table Name: site
- Criteria: < >”placeholder”

peiid
- Show
- Table Name: pedon

upedonid
- Show
- Table Name: pedon
- Criteria: < >”placeholder”

fragvol
- Show
- Table Name: phfrags

fragsize_l
- Show
- Table Name: phfrags

fragsize_r
- Show
- Table Name: phfrags

fragsize_h
- Show
- Table Name: phfrags

fragkind
- Show
- Table Name: phfrags

fraground
- Show
- Table Name: phfrags

fragshp
- Show
- Table Name: phfrags

fraghard

- Show
- Table Name: phfrags

phiid

- Show
- Table Name: phorizon

Formatting for Texture, Color, Eff and pH Reports (Query: A)

Field Labels		Left Margin		Width		Alignment
Site ID		0.04		0.50		
Depth		1.20		0.50		
Horizon		1.80		0.75		
Texture		2.50				
Dry Color %		3.70		0.80		
Dry Color		4.70				
Moist Color %		5.50		0.90		
Moist Color		6.60				
Eff and pH		7.70				

Data Field		Left Margin		Width		Alignment
Site ID		0.04		1.20		
Depth		0.85		0.75		Right
Horizon		1.90		0.50		
Texture		2.50				
Dry Color %		3.90				
Dry Color		4.00				Right
Moist Color %		5.75				
Moist Color		6.00				Right
Eff and pH		7.45		1.60		Left

Formatting for PVSF and Concentrations Reports (Query: B)

Field Labels		Left Margin		Width		Alignment
Site ID		0.04		0.50		Left
Depth		1.00		0.50		Left
Horizon		1.50		0.75		Left
PVSF		2.50				Left
Concentrations		5.40				Left

Data Field		Left Margin		Width		Alignment
Site ID		0.04		1.20		
Depth		0.60		0.75		Right
Horizon		1.60		0.50		
PVSF		2.00		3.50		
Concentrations		5.40		3.50		

Formatting for CaCO3 Equiv and Frags Reports (Query: C)

Field Labels		Left Margin		Width		Alignment
Site ID		0.04		0.50		Left
Depth		1.00		0.50		Left
Horizon		1.50		0.75		Left
CaCO3 Equiv		2.50				
Fragments		5.40				

Data Field		Left Margin		Width		Alignment
Site ID		0.04		1.20		
Depth		0.60		0.75		Right
Horizon		1.60		0.50		
CaCO3 Equiv		2.50		3.50		
Fragments		5.40		3.50		