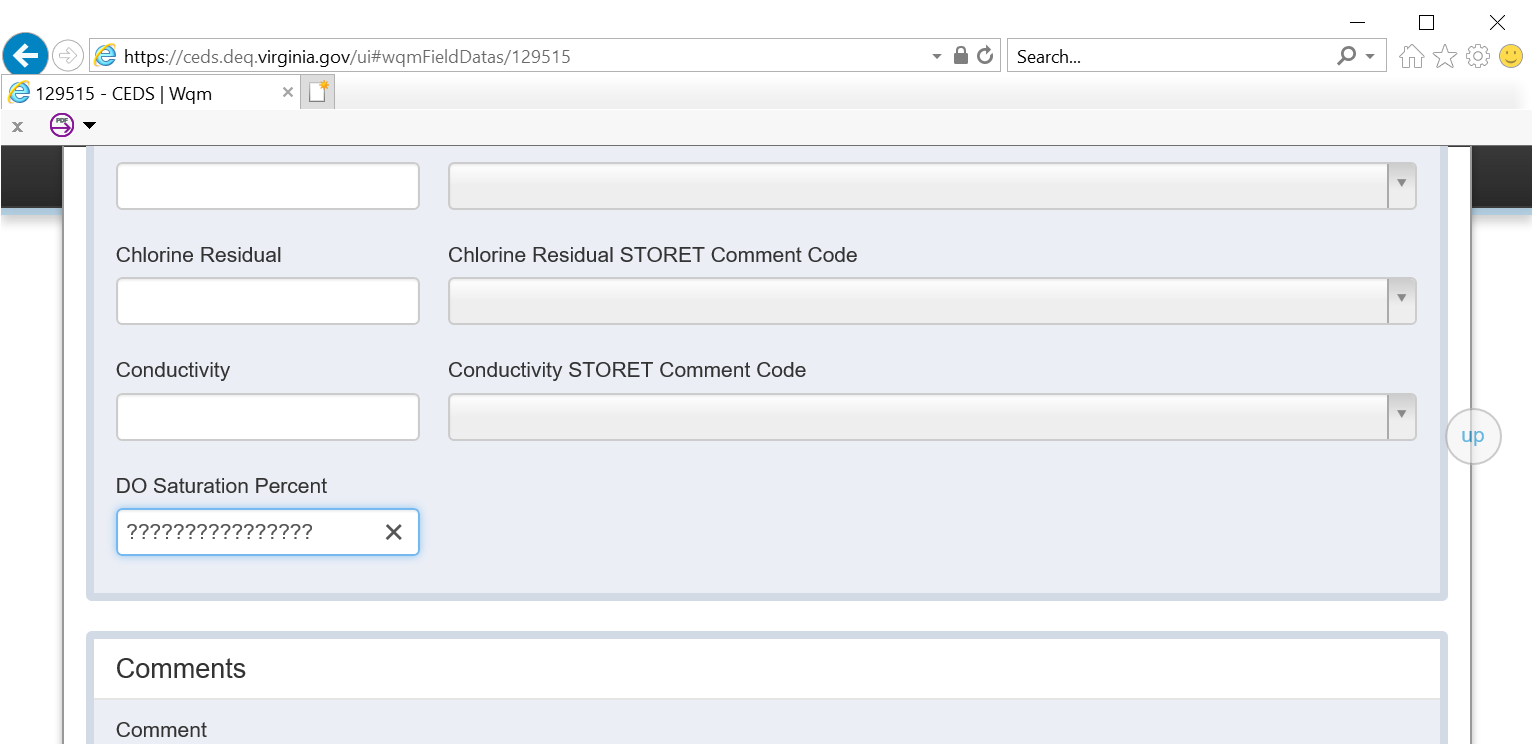
<https://ceds.deq.virginia.gov/ui#wqmFieldDatas/129515>



SAS CODE

SET CL=FDT\_SALINITY/**1.80655**;

**PROC** **SQL**; ALTER TABLE WORK.FDT ADD DOSAT NUM FORMAT **3.2** LABEL = 'DOSAT' ;**QUIT**;

**PROC** **SQL**; UPDATE WORK.FDT SET FDT\_DO\_PROBE = FDT\_DO\_OPTICAL WHERE FDT\_DO\_OPTICAL IS NOT NULL;

**PROC** **SQL**;

UPDATE WORK.FDT

SET DOSAT= (FDT\_DO\_PROBE/EXP(-**139.34411**+(**1.575701**\***100000**/(FDT\_TEMP\_CELCIUS+**273.15**))-

(**6.642308**\***10000000**/((FDT\_TEMP\_CELCIUS+**273.15**)\*(FDT\_TEMP\_CELCIUS+**273.15**)))+

(**1.243800**\***10000000000**/((FDT\_TEMP\_CELCIUS+**273.15**)\*(FDT\_TEMP\_CELCIUS+**273.15**)\*(FDT\_TEMP\_CELCIUS+**273.15**)))-

(**8.621949**\***100000000000**/((FDT\_TEMP\_CELCIUS+**273.15**)\*(FDT\_TEMP\_CELCIUS+**273.15**)\*(FDT\_TEMP\_CELCIUS+**273.15**)\*

(FDT\_TEMP\_CELCIUS+**273.15**)))-

CL\*((**3.192900**\***0.01**)-(**1.942800**\***10**/(FDT\_TEMP\_CELCIUS+**273.15**))+

(**3.867300**\***1000**/((FDT\_TEMP\_CELCIUS+**273.15**)\*(FDT\_TEMP\_CELCIUS+**273.15**))))))\***100**

WHERE FDT\_DO\_PROBE IS NOT NULL

AND CL IS NOT NULL

AND FDT\_TEMP\_CELCIUS IS NOT NULL;