#######################################################

#Recharge and wells for scenarios

# Ag recharge (m/day)

rech\_wheat = 0.0001

rech\_pist = 0.00015

rech\_cot = 0.0002

# Ag well (m3/day)

agwell\_row = 12

agwell\_col = 14

agwell\_layer = 0

Q\_wheat = -3000

Q\_pist = -4500

Q\_cott = -6000

# Town well (m3/day)

townwell\_row = 21

townwell\_col = 38

townwell\_Q = -1500    #m3/day

townwell\_layer = 2

#Ag pumping well

agwell\_loc = (agwell\_layer,agwell\_row,agwell\_col)

agwell = [i for i in agwell\_loc] + [Q\_pist]  #layer, row, col, flux

print(agwell\_loc)

agwell\_spd = {0: [agwell]} #putting the well in the bottom layer

ag\_well = flopy.modflow.ModflowWel(model=m1, stress\_period\_data=agwell\_spd)

#Town pumping well

townwell\_loc = (townwell\_layer,townwell\_row,townwell\_col) #Well loc should be layer, row, column

townwell = [i for i in townwell\_loc] + [townwell\_Q]  #layer, row, col, flux

print(townwell\_loc)

townwell\_spd = {0: [townwell]} #putting the well in the bottom layer

t\_well = flopy.modflow.ModflowWel(model=m1, stress\_period\_data=townwell\_spd)

#Ag recharge

rech\_zone[21:23,:] = 1/8 \* recharge     #inclusive

rech\_zone[:,19:21] = 1/8 \* recharge     #inclusive