



Allocation program methods

Method for calculating initial allocations

5/31/23

Agenda



1. Hear presentation
 - a. Calculation methods
 - b. Examples
 - c. Data assumptions
2. Understand how to complete worksheets
3. Ask remaining questions

Program results – example results



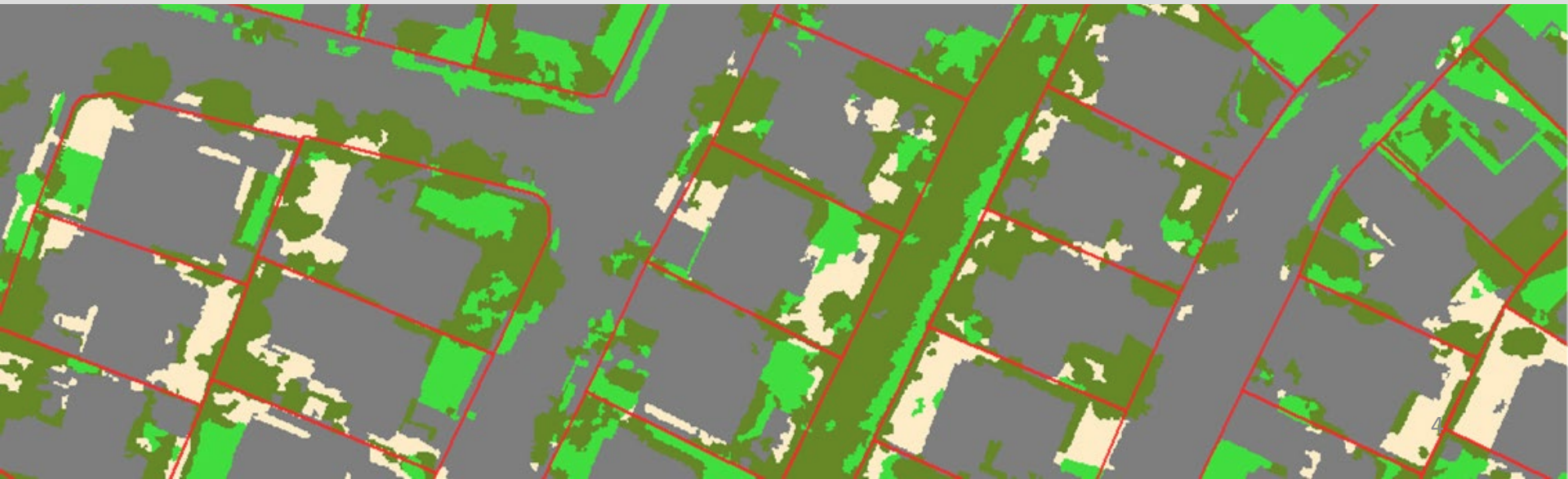
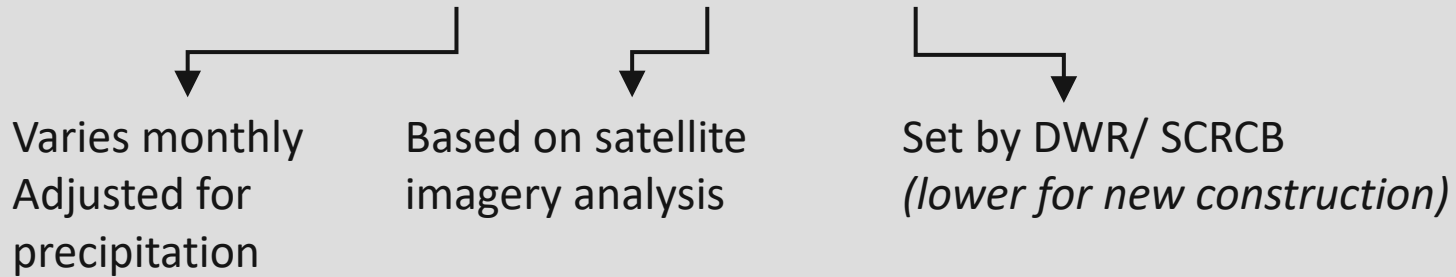
Account #	APN	Month	Allocation (HCF)
01-010000-01	001-001-001	January	7
		February	7
		March	8
		April	9
		May	9
		June	9
		July	10
		August	9
		September	9
		October	8
		November	7
		December	7
Total annual allocation			99 HCF

Outdoor allocation method



Residential landscapes, Dedicated landscape meters, City parks, School fields

Evapotranspiration (ET) x Area x ET Factor x Conversion Factor



Residential Indoor allocation method



Single-family residences, Multi-family residences, Residences on agricultural parcels

$$\text{Dwelling Units} \times \left(\frac{\text{ppl}}{\text{unit}} \right) \times \text{Gallons Per Capita Day}$$

From account
data

Based on
Census

Set by DWR

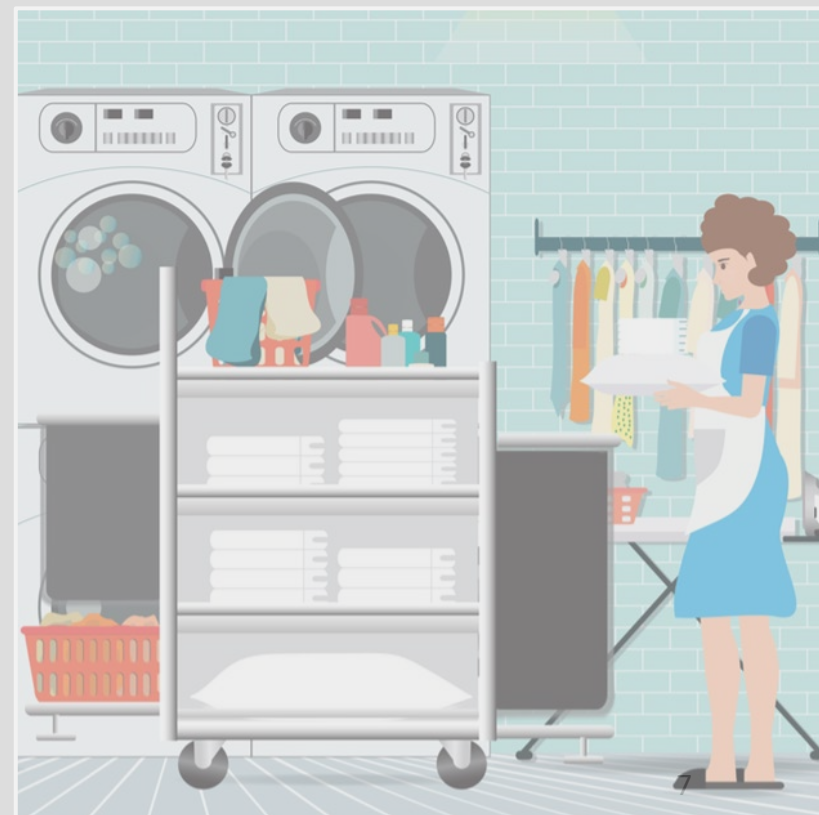


CII allocation method



Commercial facilities, Industrial facilities, Public facilities (not City Parks)

Historical average water use = monthly allocation

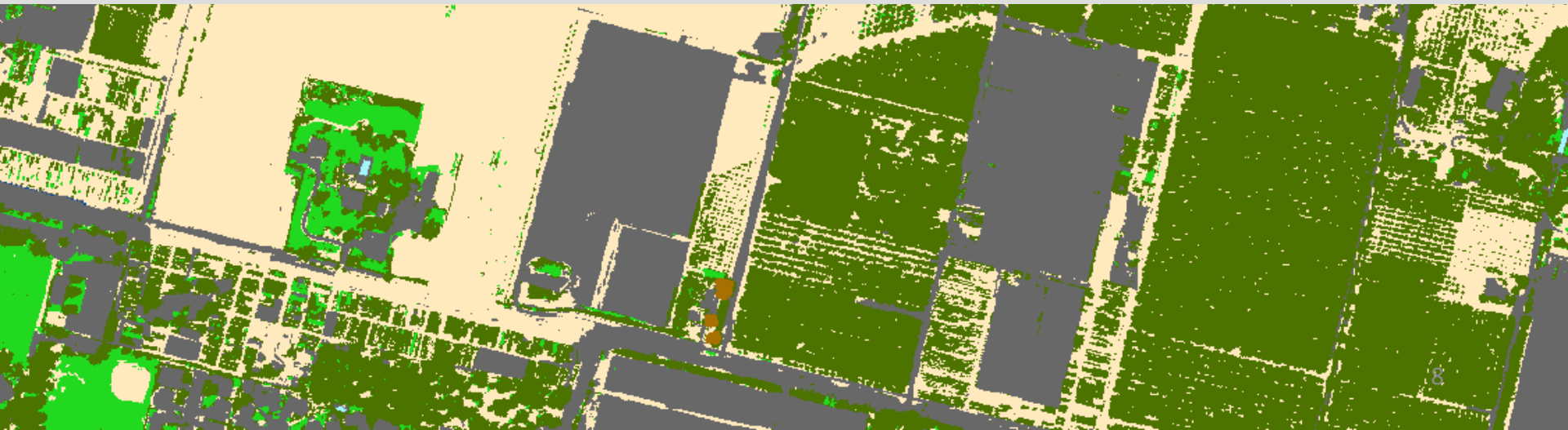


Agricultural allocation method



Agricultural/ crop water use for agricultural accounts.

Historical average water use = monthly allocation



Examples



Residential Monthly Allocation Examples



Single-family residential account

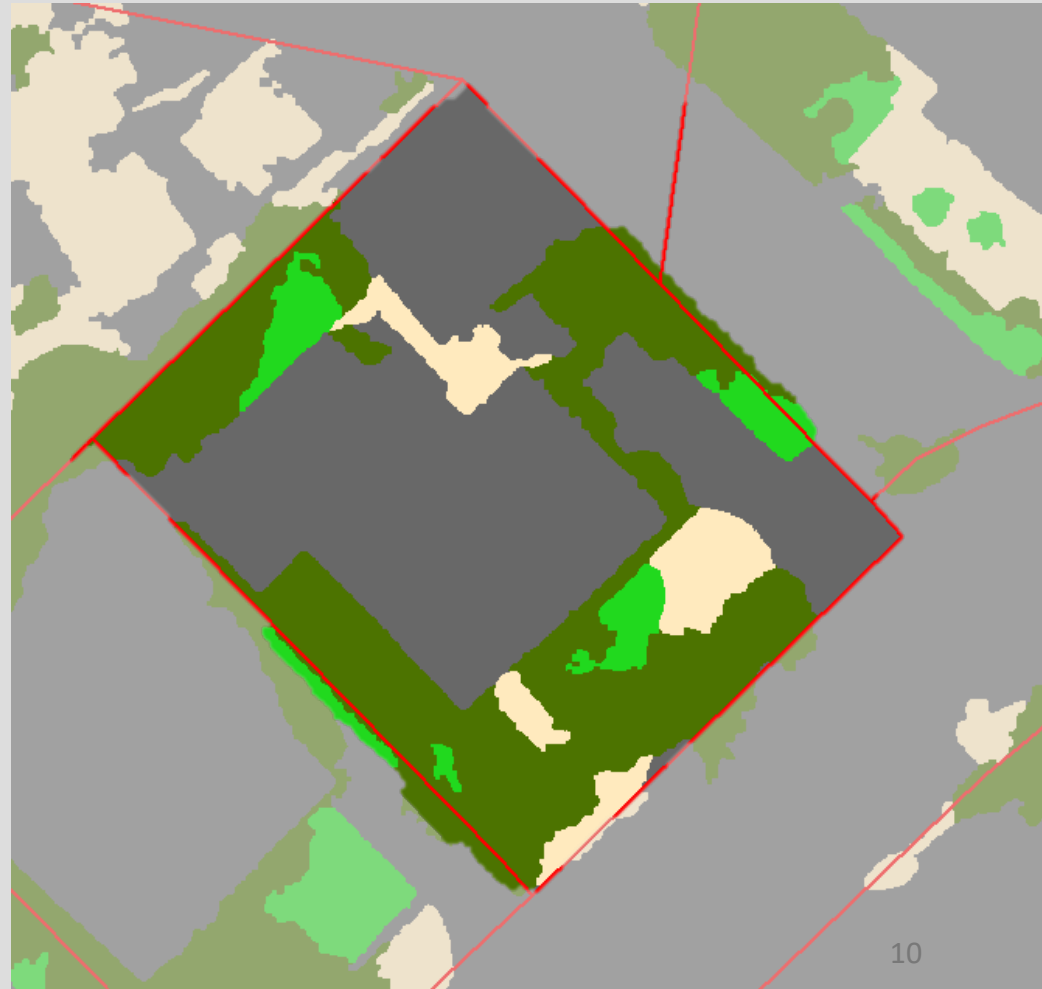
Dwelling units	1
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Indoor allocation	6 HCF
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Irrigated area	2,500 SQFT
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Outdoor allocation	8 HCF
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July allocation	14 HCF
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CII Monthly Allocation Examples

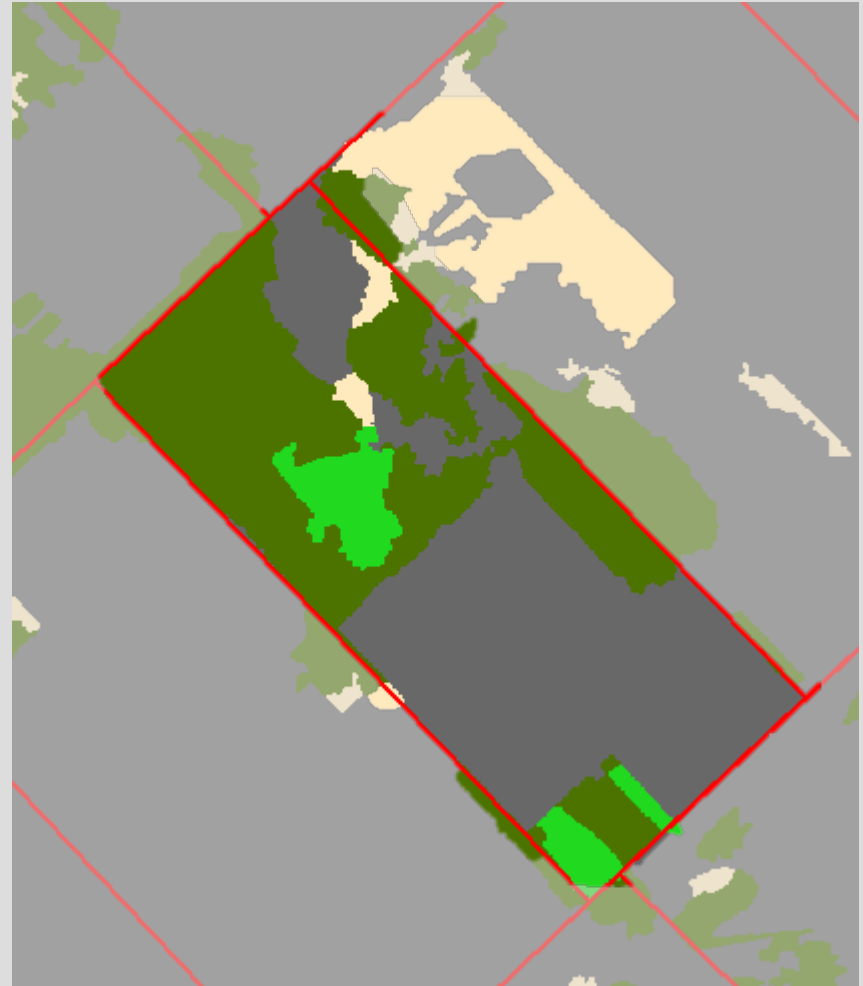


Commercial account

Irrigated area 3000 SQFT

Historical July use 14 HCF

July allocation 14 HCF



City Park Monthly Allocation Examples



Public authority account	
Dwelling units	0
Indoor allocation	0 HCF
Irrigated area	120,000 SQFT
Outdoor allocation	493 HCF
July allocation	493 HCF



Summary of data complications and suggested solutions



Summary of data complications and suggested solutions



- **Issue:** There is a residential account and an agricultural account on one parcel. The agriculture on the parcel will artificially inflate the outdoor allocation for the residential account.
- **Solution:** Assign a separate pseudo-APN to the residential account so it is separate from the agricultural APN. This will enable calculation of separate allocations for the residential and agricultural accounts.

- **Issue:** There are multiple accounts on one parcel. There could be multiple residential accounts, multiple CII accounts, or a mix. There is no landscape account on the parcel.
- **Solution:** Divide the parcel irrigated area equally among the accounts.

- **Issue:** There are multiple accounts on one parcel including a landscape irrigation account.
- **Solution:** Assume the landscape account is responsible for all outdoor irrigation.

- **Issue:** There is one account serving multiple parcels.
- **Solution:** Add up the irrigated area and dwelling units for both parcels. This is the total allocation for this account.