

The SGMA Data Series

What to Collect, Why it Matters, and How to Use It

Session 1

What Data Do We Actually Need?

Agenda and Goals

What We're Covering:

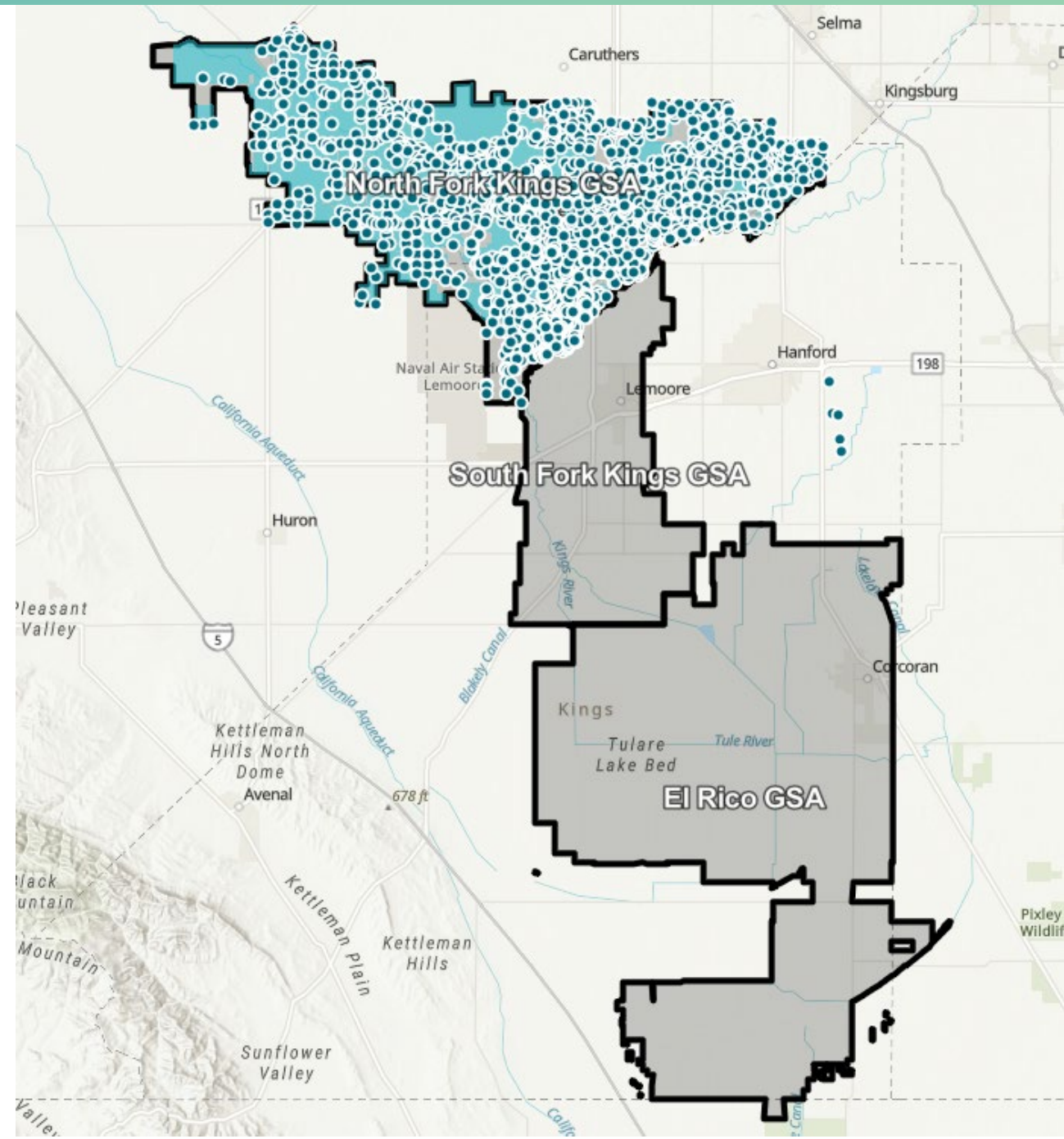
1. Data management under SGMA
2. Aligning data to policy goals
3. What data do we need?



 **Water Regulations**
ILRP and SGMA compliance

 **Data Management**
Custom software for grower coalitions

 **Grower Outreach**
25 years of experience



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What comes to mind when you think of data management under SGMA?



leader focus bold
creative
fast transpiration
inspiration



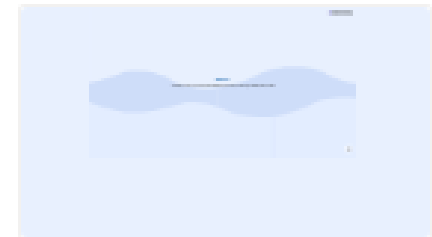
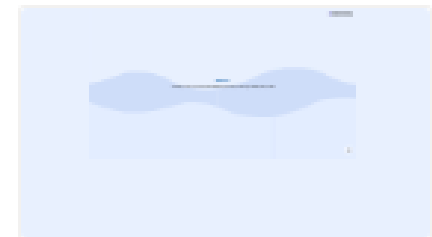
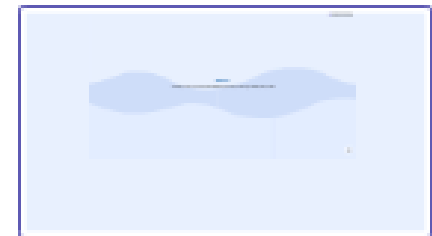
TK

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SGMA Data Manage...

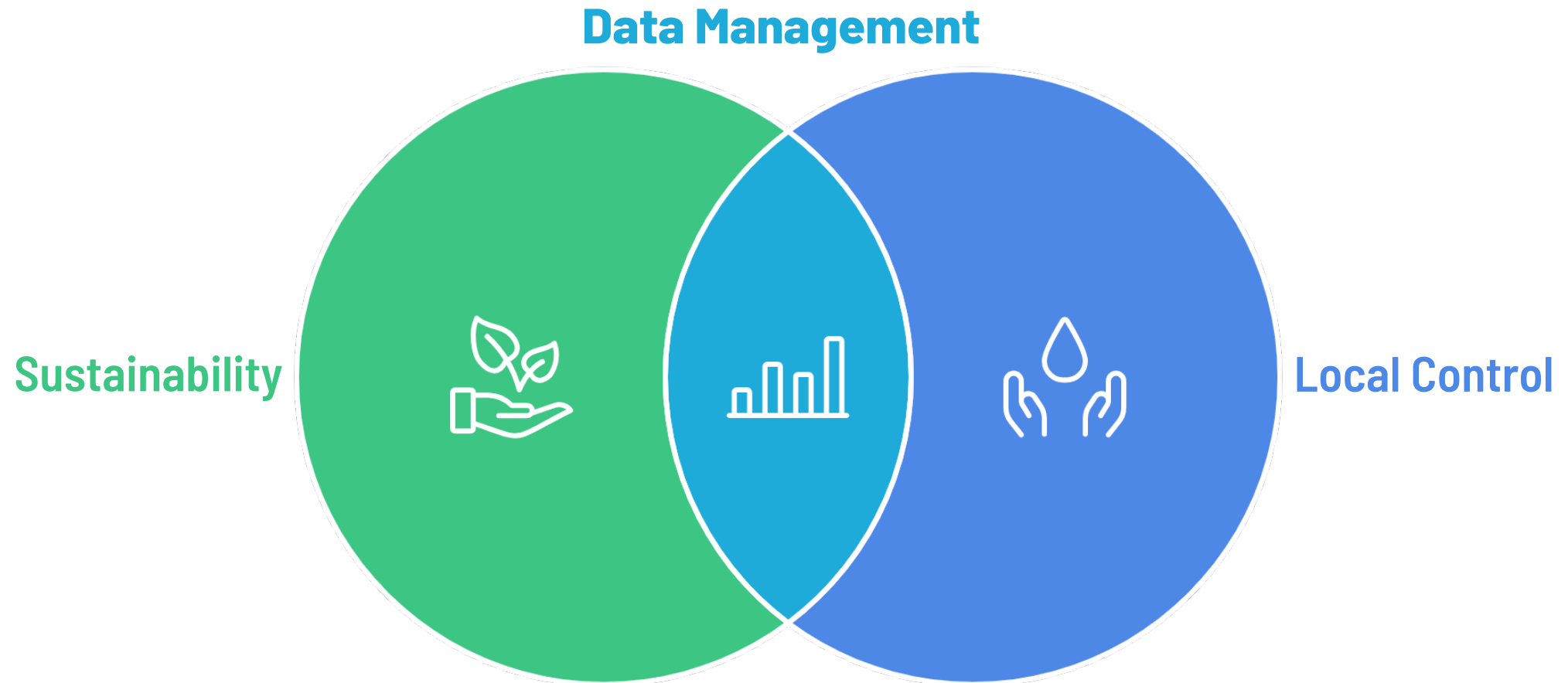


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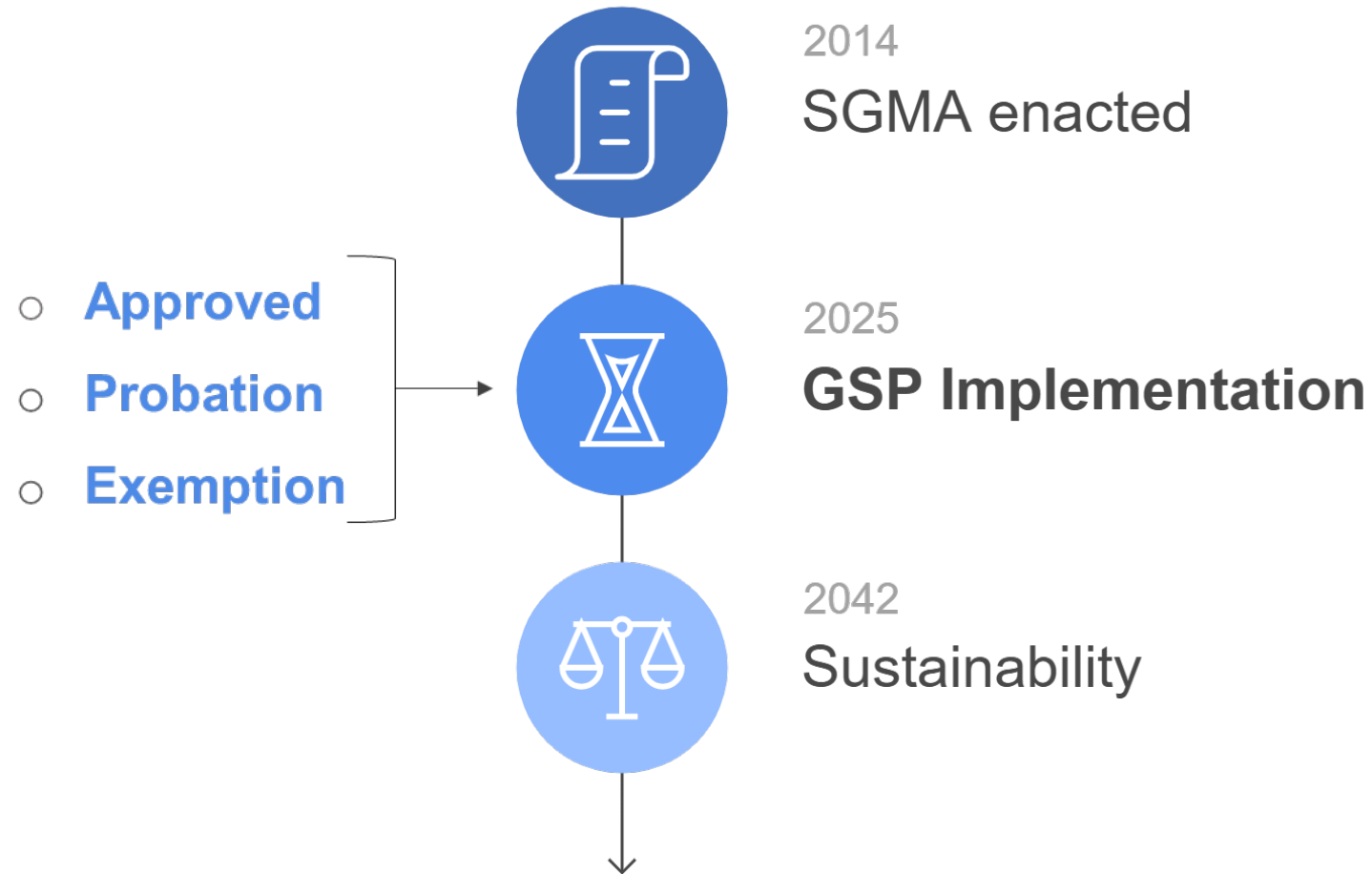


Data Management Under SGMA

What is the goal?



Where are we in the process?



Where are we in the process?

- **Approved**
- **Probation**
- **Exemption**



Data Requirements for Compliance

Data Requirement	Probation
Well registration	Yes
Extraction reporting	Yes
Fees	Yes

Data Requirements for Compliance

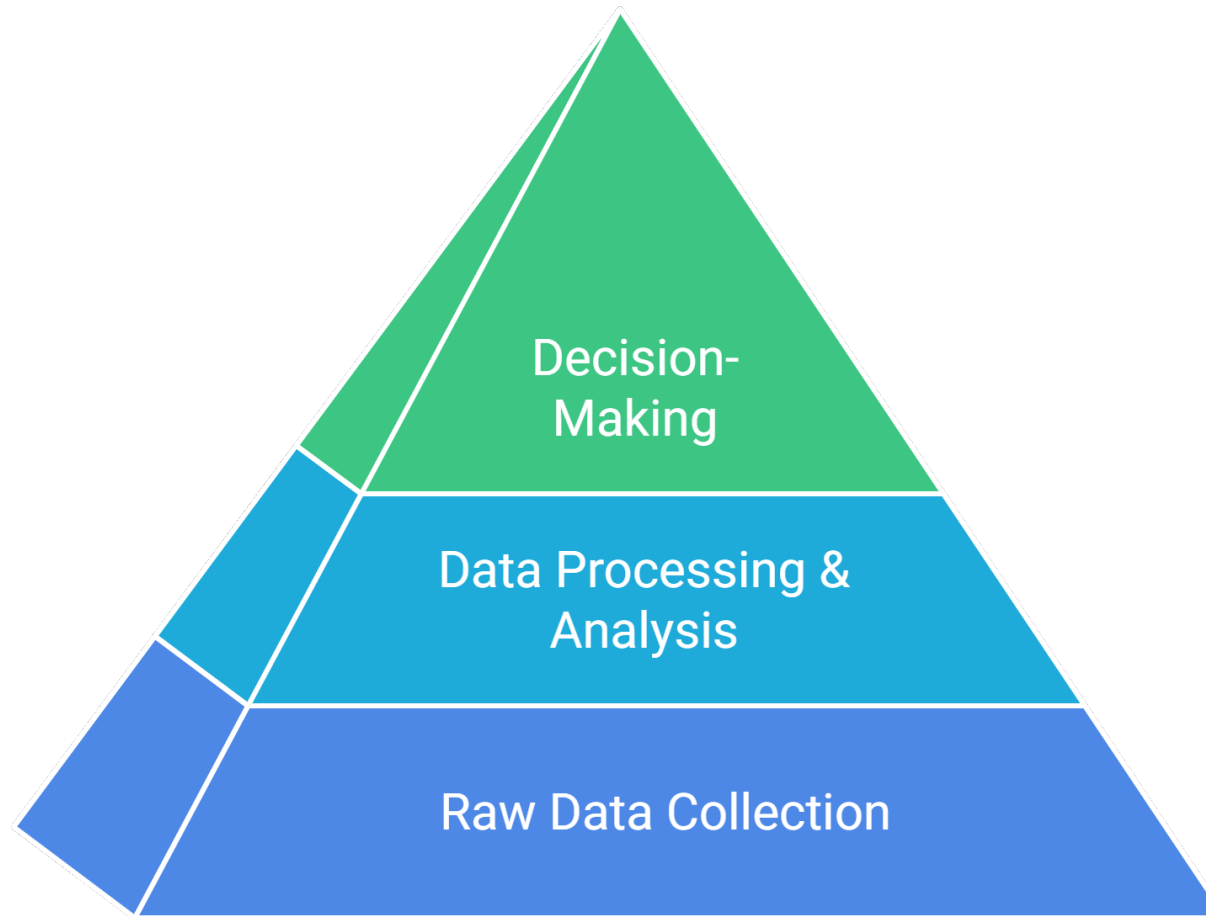
Data Requirement	Probation	Exemption
Well registration	Yes	Yes
Extraction reporting	Yes	Yes
Fees	Yes	No

Local control

Strategic Data Management

Aligning Data with Policy Goals

Building Your Data Picture



Data and Policy



- Policy provides a roadmap
- Future-proof compliance
- What data to collect?



Policy
informs
data





**Data
informs
policy**



- Identify gaps and trends
- Informed decision-making
- Where is action needed?

Start with your GSP



Projects and Management Actions

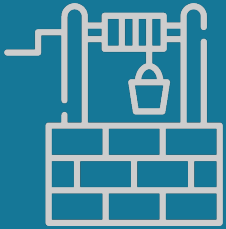
Supply Augmentation

Demand Reduction

Projects and Management Actions

Supply Augmentation	Demand Reduction
On-farm recharge	Fallowing
Stormwater capture	Incentive programs
Water banking	Water efficiency programs
Surface water transfers	Pumping reduction plans

Projects and Management Actions



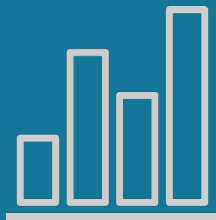
Well
Registration



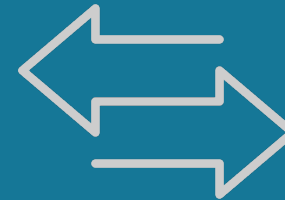
Metering &
Reporting



Groundwater
Allocations



Water Usage
Tracking



Credits
Trading

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What projects or management actions do you currently need data for?

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fast inspiration
bold
transpiration



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What Data Do We Need?

Data for Different Management Actions

Data for Different Management Actions

**Well Registration
& Parcel Claiming**

**Water Accounting
& Usage Tracking**

**Allocations,
Trading, & Fees**

Well Registration & Parcel Claiming

WHAT TYPES OF INFORMATION WILL I NEED?

TYPE & STATUS

Status, Well Type(s)

DRILLING DETAILS

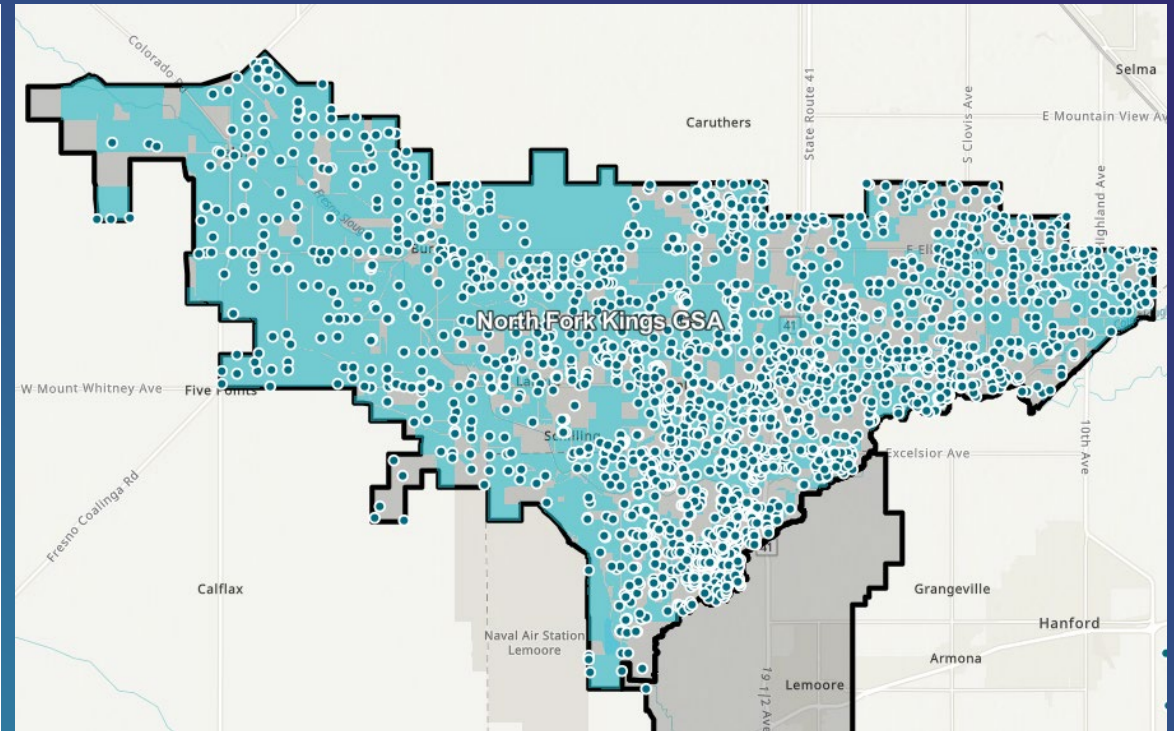
Well Completion Report, Year Drilled, Driller, Well Depth, Screen Depth

PUMP DETAILS

Type, Size (horsepower), FlowMeter, Efficiency Testing

EXTRACTION VOLUME

Extraction Volume & Measurement Method



Well Registration & Parcel Claiming

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Status, Well Type(s)

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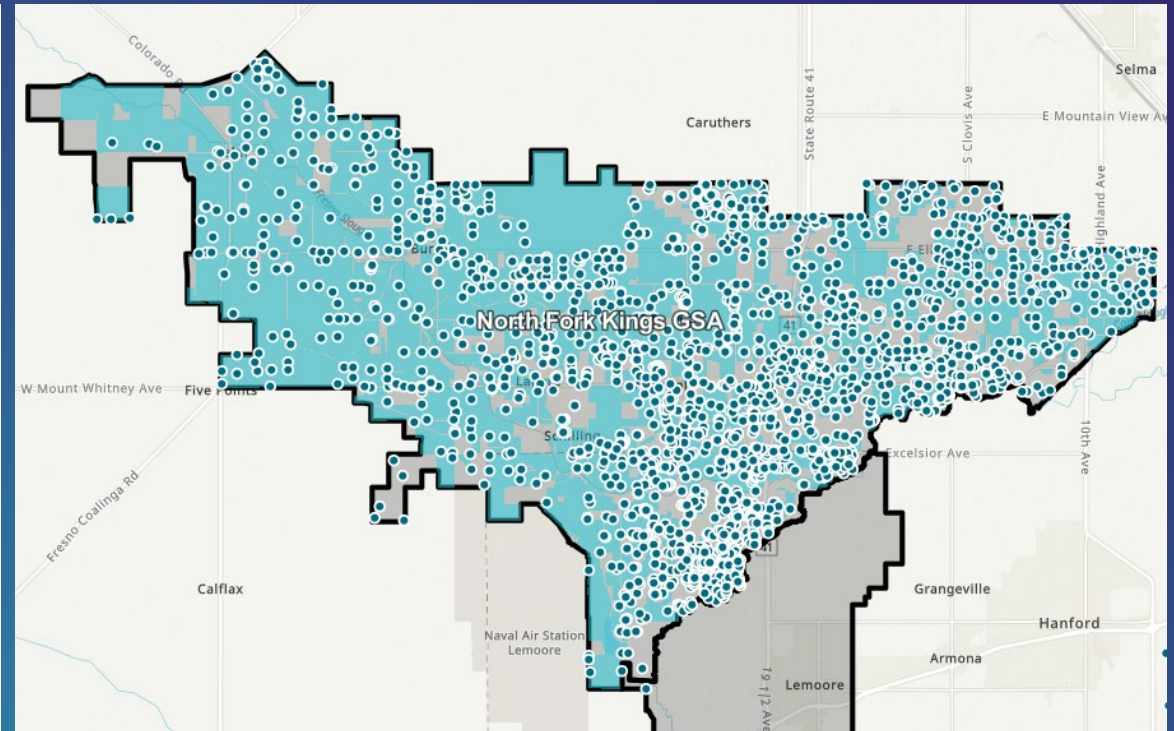
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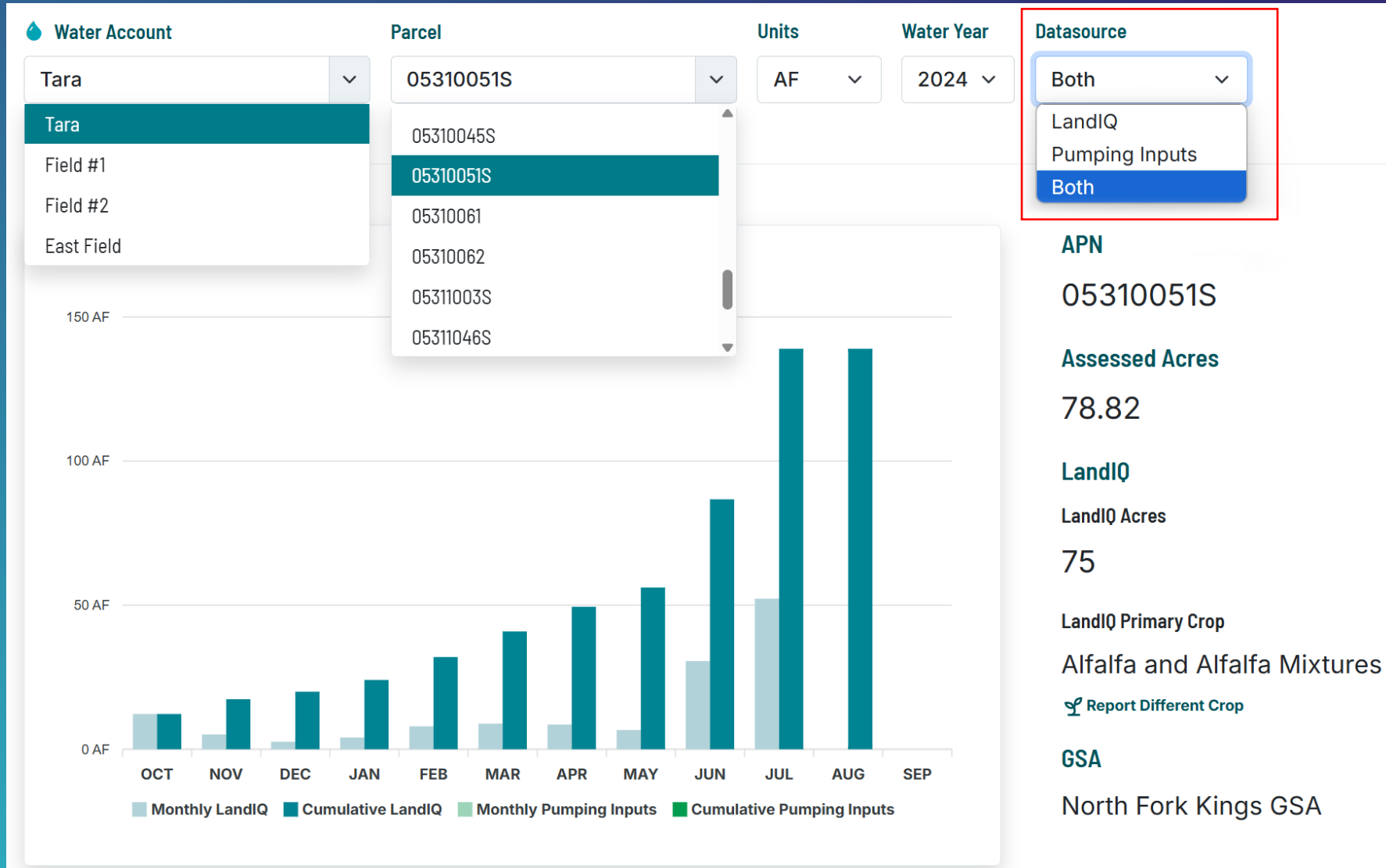
Data for Different Management Actions

**Well Registration
& Parcel Claiming**

**Water Accounting
& Usage Tracking**

**Allocations,
Trading, & Fees**

Water Accounting & Usage Tracking



Water Accounting & Usage Tracking

Data Source	Pros	Cons
Meters	Accuracy, granularity	High upfront cost; buy-in required
ET/Remote Sensing	No need for grower action	Captures consumptive usage; less nuance
Grower Reporting	Low cost, familiar process	Inaccuracy, inconsistent participation

Data for Different Management Actions

**Well Registration
& Parcel Claiming**

**Water Accounting
& Usage Tracking**

**Allocations,
Trading, & Fees**

ACCOUNTING SUMMARY

REMAINING WATER NEEDED

1942.23 AF

i

Groundwater Pumping Limit

1966.74 AF

Native Sustainable Yield

1376.72 AF

Parcel Groundwater Allocation

0.70 AF / acre

Ramp Down Allocation

590.02 AF

Parcel Ramp Down Allocation

0.30 AF / acre

Canal Seepage Credit

0 AF

Surface Water Credit

Intentional Recharge Credit

0 AF

Surface Water Credit

Carryover Credit

0 AF

Balance Forward

i

Groundwater Consumptive Use

24.51 AF

Water Usage

31.44 AF

Datasource: LandIQ

Return Flow Credit

2.28 AF

Surface Water Credit

Precipitation Credit

4.65 AF

Usable Precipitation

4.65 AF

Over/(Under) Pumping Limit

(1942.23) AF

Overcharge Fee: \$ 20 / AF

\$ 0

SURFACE WATER DELIVERIES

Month of Jun 2025

<div><div>↑</div></div> Reed Ditch	15.22 AF <div>-</div>
Return Flow	2.28 AF
Intentional Recharge	0 AF
Canal Seepage	0 AF

VIEW ALL TRANSACTIONS

Allocations,
Trading, &
Fees

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What data points do you need to start collecting?

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creative
fast focus
inspiration



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The SGMA Data Series

What to Collect, Why it Matters, and How to Use It

Next Time:

How to Collect the Right Data

Questions?

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