Citrus Circuits
Fall Workshop Series

Draft Night Tool:
The Picklist

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"Your robot wins matches,
your scouting wins competitions"

Why are you here?

- You are a consistently high-seeded alliance captain focused on a strong second pick
- You have been a low-seeded captain looking for a well-balanced alliance
- You are a rising team preparing for being an alliance captain
- You are a team picked by other alliances looking to understand how these choices are made

1678

What if we're a high-seed captain?

- Top ~1-4
- Look for offensive power in your first pick
  - Technical capability is a plus
- Look for utility in your second pick
  - Often auto/endgame points
  - Versatility in teleop
  - The higher you seed, the lower your second pick
- Scout!

What if we're a low-seed captain?

- Top ~5-8
- Prepare for all scenarios; game it out
- Look for complementary strength in your first pick
  - Pick a robot that can do what you can't do
- Your second pick should fill holes
  - Which alliance captain will you face?
  - You will have a strong second pick
- Scout!

What if we're not seeded high?

- Talk to the teams that are seeded high
  - Find out their criteria
    - This presentation is an example!
  - Could you be a first pick or a second pick?
    - First pick - offensive power (usually)
    - Second pick - alliance dependent
  - Understand that any alliance can pick you
- Be cooperative in quals and follow match strategies
- Be reliable and consistent
- Scout!

Picklist Formation

Scouting Data

	1678	Order	First Pickability	Second Pickability	Driver Ability	Quickness	Field Aware	Avg Time Incap (s)	Max Tele Balls High	Tele Avg Balls High	Tele Avg Balls Low	Auto Avg Balls High	Auto Avg Balls Low	Climb Attempts	Low	Mid	High	Traversal
4	27574	59	6.5	63.9	4.6	2.0	1.9	0.0	27.0	22.0	0.1	4.6	0.0	6.0	0.0	1.0	0.0	5
5	28345	38	6.4	62.1	4.5	1.9	2.0	0.0	31.0	22.0	0.0	3.9	0.0	7.0	0.0	0.0	0.0	7
6	92997	45	4.7	49.9	3.8	1.6	1.7	0.0	19.0	15.7	0.0	3.8	0.0	4.0	0.0	2.0	2.0	0
7	19088	42	4.4	55.2	4.1	1.9	1.7	0.0	16.0	12.7	0.0	4.0	0.0	4.0	0.0	1.0	2.0	1
8	57578	55	3.9	46.5	3.5	1.4	1.7	0.0	21.0	12.0	0.0	2.3	0.2	6.0	0.0	0.0	0.0	5
9	66583	5	3.2	38.4	2.5	1.0	1.4	2.8	12.0	8.8	0.0	2.3	0.0	6.0	0.0	0.0	4.0	2
10	10586	13	3.1	43.5	2.6	1.3	1.2	0.0	10.0	6.6	0.0	2.6	0.0	6.0	0.0	0.0	0.0	6
11	34757	17	3.0	35.9	2.6	1.1	1.4	0.0	13.0	8.7	0.2	2.3	0.0	6.0	0.0	1.0	3.0	1
12	28477	25	3.0	43.0	3.8	1.8	1.6	0.0	12.0	9.3	0.3	1.9	0.0	6.0	0.0	2.0	5.0	0
13	11111	29	2.9	36.1	3.7	1.6	1.7	0.0	16.0	11.1	0.0	2.1	0.0	3.0	1.0	0.0	0.0	0
14	12313	52	2.9	44.0	3.3	1.3	1.7	0.0	10.0	7.0	0.0	2.3	0.0	6.0	1.0	0.0	2.0	3
15	56738	35	2.7	43.2	3.5	1.4	1.7	0.0	9.0	7.0	0.0	2.6	0.0	7.0	0.0	0.0	4.0	1
16	28388	1	2.6	39.5	2.7	1.3	1.3	0.0	10.0	6.0	0.0	1.8	0.0	5.0	0.0	0.0	2.0	3
17	28475	34	2.2	26.9	2.5	1.2	1.2	0.0	12.0	8.1	0.0	0.9	0.0	7.0	0.0	7.0	0.0	0
18	28475	23	2.2	26.9	2.5	1.2	1.2	0.0	12.0	8.1	0.0	0.9	0.0	7.0	0.0	7.0	0.0	0
19	48848	21	1.7	26.5	1.8	0.9	1.0	21.5	6.0	4.0	0.0	0.5	0.0	3.0	0.0	0.0	0.0	2
20	76937	22	1.7	23.3	1.7	0.9	0.9	5.6	6.0	3.8	0.0	0.4	0.4	5.0	0.0	1.0	1.0	2
21	23745	4	1.5	14.3	1.1	0.7	0.7	3.5	0.0	0.0	7.0	0.0	1.3	3.0	0.0	2.0	0.0	2

Main Editor | DNPs | Team Comparison Graphs | Settings | TIM Raw Data | Team Raw Data | Image Raw Data

- Optimized visualization
  - Spreadsheets are great
  - Needs to be set up beforehand
- Spreadsheet formatting
  - Conditional
  - Number
  - Freezing
  - Alternating colors
  - Filters
- See our Scouting Systems workshop

Meeting Logistics

- Who participates?
  - Too many people can lead to unproductivity
- Logistics
  - Visual aids
  - Dinner
- What position are you in?
  - Seeding
  - Predictions/plans
  - Context
- If you have the data to make a picklist, make one!
  - 12th seed or above should definitely make one!
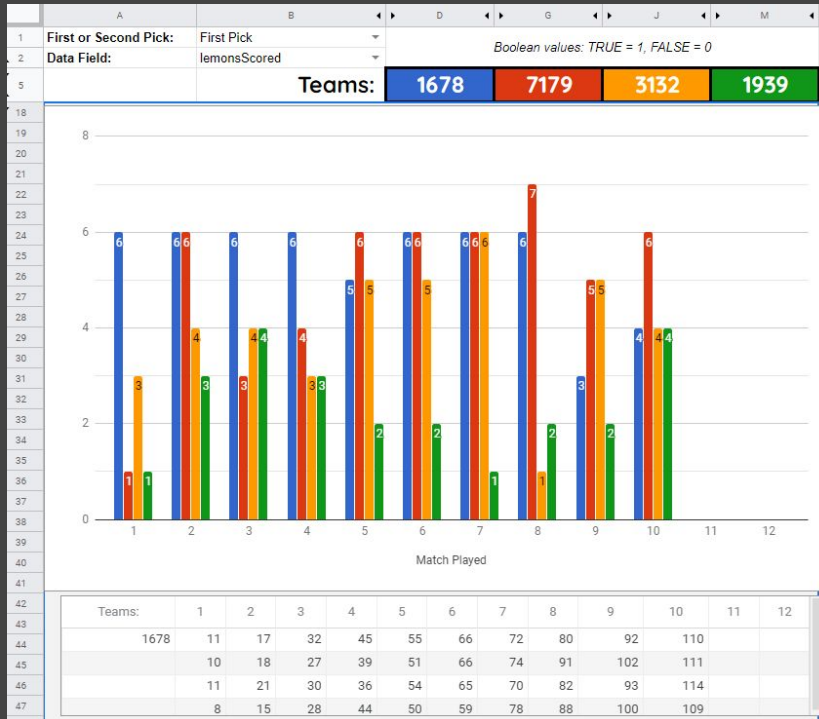
Identify Your Goals

Max Tele Balls High	Tele Avg Balls High	Tele Avg Balls Low	Auto Avg Balls High	Auto Avg Balls Low

Climb Attempts	Low	Mid	High	Traversal

- What are your criteria?
  - Valued attributes/data points
  - First vs. Second pick
  - DNPs
  - What is your role?
- List length - 24 for regionals, 32 for champs
- Meeting length
  - Sleep is important
- Predict alliances if you're seeded high

Creating an Initial Picklist

- Meeting with known alliance partner
- Grind through the data
  - Scouting data
  - Match videos
  - Graphs/trends
  - Anecdotes
  - Observations
- Discuss, Debate, Decide!
  - Pairwise rankings
  - Pros and cons
  - Play devil's advocate
  - Group consensus
- Maintain productivity

Looking at our Picklist

https://docs.google.com/spreadsheets/d/1j7OowvHNj974HMMuVzIk3dVHsDS5EXqUSjE9e8WodY4/edit?usp=sharing

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Thank You!