

Upgrade Point Calculator

<https://usacycling.org/about-us/governance/policy-viii#CycloCross>

<https://usacyclinghelp.zendesk.com/hc/en-us/articles/4432821696795-Category-Upgrade-Policy>

1. Build a list of everyone who has raced CCC in the past 12 months ("Racer List")

Start with Glenwood Academy 2024

URL format: crossresults.com/race/12471

Create a data folder with the timestamp and scrape the results page for each racer.

For each scraped racer, check if they are in DB.

If not in DB, add to table:

racers

id	crossresults_id	current_cat	name	age	last_upgrade_date
1	62678	3	James Meyer	48	null
2	211305	3	Guiober Cuevas	40	null

races

id	name	date	crossresults_id
1	Jackson Park	2023-10-07	11821
2	ABD Sunrise Park	2023-10-22	11934
3	Campton CX	2023-10-29	11999
4	Groundhog PSI	2023-11-05	12049
5	Wheeling Heritage Park	2023-11-12	12100

6	Quarry Cross	2023-11-19	12152
7	Montrose Beach CX	2023-12-03	12211
8	Glenwood Academy	2024-09-29	12471

2. Build a list of results for everyone on the Racer List

Loop over racers and scrape their results. Place into a subfolder alongside the

CrossResults format: crossresults.com/racer/62678

results

id	racer_id	date	title	category	place	racers	upgrade_points
1	62678	2024-09-29	Glenwood Academy CX	Men Cat 3/4	1	68	null
2	62678	2024-10-05	Trek USCX Trek CX Cup	Men Cat 3 Elite	15	44	null

Table for assigning upgrade points:

Position	5-10	11-20	21-35	36-60	61-80	81+
1	3	4	5	8	10	11
2	2	3	4	6	8	10
3	1	2	3	5	7	9
4		1	2	4	6	8
5			1	3	5	7
6				2	4	6
7				1	3	5

8					2	4
9					1	3
10						2
11						1

3. Generate a list of all unique Category names on CrossResults and create a lookup table mapping them to simple category names.

Men Cat 3/4	Cat 3 Elite
Men Cat 3 Elite	Cat 3 Elite
Men Master 40+	Masters

4. Create a new table mapping race ids to simple category names

categories

id	race_id	simple_category
343	1	Cat 3
344	2	Cat 3
345	3	Masters
346	4	Junior

5. Create a list of events that should be excluded from results

excluded_events

id	name
1	xXx Racing-Athetico Relay Cross
2	Half Acre Cycling Cyclocross Eliminator

6. Sum current upgrade points for each rider

Ignore races that occurred more than 12 months ago

Ignore races that occurred before the rider's most recent upgrade

Ignore points earned in a race lower than the current category (e.g. if a rider is currently listed as Cat 3 and racing Cat 3/4, ignore points earned in a Cat 4 field in the past 12 months – this was before their upgrade).

If racing age is 18,

upgrade_points

id	racer_id	date_calculated	upgrade_points
1	33	2024-10-07	25
2	58	2024-10-07	13

7. Determine riders who are over the mandatory upgrade limit

Ignore riders

Novice > 4	10 points in 12 months OR 10 finishes
4 > 3	10 points in 12 months OR 2 wins (20+ starters in field)
3 > 2	15 points in 12 months OR 2 wins (20+ starters in field)
2 > 1	20 points in 12 months OR 2 wins (20+ starters in field)

Output a summary list of mandatory upgrades earned in text and CSV format. Flag riders who are considered Junior (18 and younger) or U23 (19 to 22).

Name	CrossResults	Current Category	Reason	Age Flag
Alex Anderson	www.crossresults.com/racer/62678	4	14 finishes (10 max)	Junior
Bobby Brown	www.crossresults.com/racer/62678	3	18 points (10 max)	null
Bobby Brown	www.crossresults.com/racer/62678	3	2 wins (2 max)	
Chris Carpenter	www.crossresults.com/racer/62678	5	3 wins (2 max)	U23

For each unique rider, also generate a resume file with all of the results used to calculate the upgrade.

Alex Anderson	www.crossresults.com/racer/62678	Cat 4	18 of 10 points	14 of 10 finishes	
Date	Event	Category	Position	Starters	Points
2024-09-29	Glenwood Academy	Cat 4	2	36	6
					6

8. Ongoing use

Add the most recent race to the *racers* table

9	2024-10-13	Humboldt Park CX	12472
---	------------	------------------	-------

Loop over all racers and make sure they're in the *racers* table. Add any new racers.

Make sure all existing racers didn't race anywhere else and that their results weren't updated.
(Output and save the results of this operation.

Repeat steps 6 (sum current upgrade points for each rider) and 7 (determine riders who are over the mandatory upgrade limit).