

CF Montreal: Roster Efficiency & Player Value Report

1. EXECUTIVE SUMMARY

CF Montreal's roster shows a concerning trend: the team's most valuable players are concentrated in past seasons, while the 2025 roster features a Designated Player with an alarmingly positive percent change (+43.0%), meaning the team improves substantially without him. The single greatest strength is the consistent negative impact generated by Designated Players from 2021-2024. The most urgent roster need is addressing the 2025 Designated Forward position, which represents a significant misallocation of resources.

2. PLAYER ABSENCE IMPACT METRIC

The *Player Absence Impact* metric, derived from the Lasso regression model, quantifies an individual player's marginal contribution to team performance. The process simulates the team's Pythagorean Expectation (PE) score with the player on the roster and then recalculates it after removing that single player.

The resulting **percent change** (% change) is the key indicator:

- **Negative percent change** (e.g., -16.8%) means the team's PE score *decreases* without the player, identifying a **valuable** asset.
- **Positive percent change** means the team's PE score *increases* without the player, identifying a **replaceable** or potentially harmful contract.

This metric allows the front office to evaluate roster construction efficiency by isolating each player's true on-field impact.

3. ROSTER HEALTH OVERVIEW

- **Genuinely Impactful (Percent change < -5.0%): 22.2%** (32 of 144 player-seasons). These players significantly hurt the team if removed.
- **Not Impactful / Replaceable (Percent change > 5.0%): 20.1%** (29 of 144 player-seasons). The team performs better without these players.

Team Summary (from team_summary.csv):

- Total player-seasons analyzed: 144
- Percentage of roster that is valuable (percent change < 0): 45.1%
- Average percent change across all players: **+0.31%** (slightly net-positive, meaning on average the team is marginally *better* without these players)
- Average impact magnitude: 4.9%

4. DESIGNATED PLAYER ROI AUDIT

Player	Year	Salary	PE % change	Value Verdict
2021 M	2021	\$3,091,667	-16.75%	Elite Core
2022 M	2022	\$3,091,667	-12.90%	Elite Core
2023 M	2023	\$1,800,000	-16.24%	Elite Core
2024 M	2024	\$1,800,000	-10.32%	Core
2025 M	2025	\$1,991,200	-13.47%	Elite Core
2025 F	2025	\$2,247,500	+43.00%	Detrimental

- **Flagged (Percent change < 0 - Valuable):** 5 of 6 Designated Player seasons show negative percent change. The 2021-2024 DPs are particularly strong.
- **Flagged (Percent change > 0 - Harmful): 1 player – 2025 Designated Forward (\$2,247,500, +43.00%).** This is a critical red flag. The team improves by 43% without this player, representing a severe misallocation of a DP slot.

5. ALLOCATION MONEY EFFICIENCY (TAM / U22-INITIATIVE)

- **TAM Contributors (Negative Percent change):** TAM players show mixed results. Valuable TAM contributors include a 2022 F TAM (-7.08%), a 2023 F TAM (International, -3.06%), and a 2024 F TAM (-1.99%). However, several TAM players show positive percent change, including a 2024 F TAM (+10.72%) and 2025 TAM players with +2.86% and +2.76% (marginal).
- **U22-Initiative Impact:** U22 slots are **underperforming**. All U22 players show neutral or positive percent change:
 - 2023 D U22: +6.13% (team improves)
 - 2024 M U22: +1.13% (team improves)
 - 2024 D U22: -0.74% (marginal value)
 - 2024 D U22 (Supplemental): +0.39% (neutral)
 - 2025 D U22: +16.83% (strongly harmful)
 - 2025 M U22 (Intl.): -0.12% (marginal value)

Top 3 TAM "Steals" (Most Negative Percent change):

1. **2022 F TAM** (\$540,000, -7.08%)
2. **2023 F TAM (Intl.)** (\$257,288, -3.06%)
3. **2024 F TAM** (\$750,000, -1.99%)

6. HOMEGROWN PLAYER EVALUATION

Player	Year	Salary	PE % change
2025 D Homegrown	2025	\$112,019	-14.34%
2025 D Homegrown	2025	\$86,311	-14.19%
2025 F Homegrown	2025	\$86,512	+14.96%
2025 F Homegrown	2025	\$80,622	+15.15%
2024 M Homegrown	2024	\$181,813	+1.13%
2024 GK Homegrown	2024	\$152,156	-3.69%
2024 M Homegrown	2024	\$142,434	+1.13%
2024 M Homegrown	2024	\$100,452	-2.38%
2024 M Homegrown	2024	\$71,401	-2.58%
2023 M Homegrown	2023	\$92,340	-0.97%
2023 M Homegrown	2023	\$79,169	-1.07%
2023 GK Homegrown	2023	\$89,780	+0.58%
2022 M Homegrown	2022	\$92,431	-0.42%
2022 GK Homegrown	2022	\$88,319	+3.46%
2021 M Homegrown	2021	\$71,730	-0.68%

- **Ready for Roster Promotion (Negative Percent change + Low Salary):**

- **2025 D Homegrown (\$112,019, -14.34%):** Elite-level negative impact from a low-cost supplemental defender.
- **2025 D Homegrown (\$86,311, -14.19%):** Exceptional value from a homegrown defender.
- **2024 GK Homegrown (\$152,156, -3.69%):** Solid negative impact from a goalkeeper.
- **2024 M Homegrown (\$100,452, -2.38%) & (\$71,401, -2.58%):** Two low-cost midfielders providing genuine value.

7. INTERNATIONAL SLOT OPTIMIZATION

Player	Year	Pos	Salary	PE % change	Justifies Slot?
2024 F	2024	F	\$888,000	+0.42%	Marginal
2024 D	2024	D	\$507,625	+0.79%	No
2024 F TAM	2024	F	\$485,055	+2.36%	No
2024 F	2024	F	\$410,000	+5.70%	No
2024 D	2024	D	\$267,600	+0.49%	No

Player	Year	Pos	Salary	PE % change	Justifies Slot?
2025 F TAM	2025	F	\$982,500	+2.86%	No
2025 M U22	2025	M	\$606,000	-0.12%	Yes (Marginal)
2025 F TAM	2025	F	\$598,560	-2.76%	Yes
2025 F	2025	F	\$410,000	-3.32%	Yes
2025 M	2025	M	\$331,869	+6.33%	No
2025 D	2025	D	\$267,600	+14.84%	No
2023 F TAM	2023	F	\$257,288	-3.06%	Yes

- **Flagged Slot Misuse (Percent change > 5%):**

- **2024 F (\$410,000, +5.70%):** Team improves nearly 6% without this international forward.
- **2025 M (\$331,869, +6.33%):** Team improves over 6% without this international midfielder.
- **2025 D (\$267,600, +14.84%):** Team improves nearly 15% without this international defender.

8. POSITIONAL DEPTH AUDIT

Position	Senior Count	Supplemental Count	Critical Upgrade Need?	Strength Area?
F (Forward)	19	7	Yes	No (2025 DP forward is severely detrimental; mixed results from TAM forwards)
M (Midfielder)	25	13	No	Yes (Designated midfielders from 2021-2025 are consistently strong; several homegrown midfielders provide negative impact)
D (Defender)	23	8	No	Yes (Multiple supplemental defenders show strong negative impact; 2025 homegrown defenders are elite values)

Position	Senior Count	Supplemental Count	Critical Upgrade Need?	Strength Area?
GK (Goalkeeper)	7	7	No	Mixed (Some negative, some positive; 2025 GK shows -19.62% which is excellent)

- **Critical Need:** Forward position. The 2025 Designated Forward (+43.0%) is a major problem. Several other forwards show positive percent change, indicating a lack of reliable attacking contributors.
- **Strength:** Midfield and Defender groups contain multiple core assets and hidden gems, particularly from homegrown and supplemental contracts.

9. SALARY vs. VALUE MATRIX

Quadrant	Definition	Players (Top 5 or All)
CORE ASSET	% change < 0 & Salary > \$500K	2021 M (\$3.09M, -16.8%), 2022 M (\$3.09M, -12.9%), 2023 M (\$1.80M, -16.2%), 2024 M (\$1.80M, -10.3%), 2025 M (\$1.99M, -13.5%)
HIDDEN GEM	% change < 0 & Salary ≤ \$500K	2025 D Homegrown (\$112K, -14.3%), 2025 D Homegrown (\$86K, -14.2%), 2025 GK (\$487K, -19.6%), 2022 GK (\$540K supplemental, -22.2%), 2024 GK Homegrown (\$152K, -3.7%)
OVERPAID	% change ≥ 0 & Salary > \$500K	All in this quadrant: 2025 F DP (\$2.25M, +43.0%) , 2024 F TAM (\$1.31M, +10.7%), 2023 F (\$1.04M, +11.9%), 2021 D (\$1.21M, +4.9%), 2021 F (\$1.04M, +6.6%)
REPLACEABLE	% change ≥ 0 & Salary ≤ \$500K	Most senior midfielders across 2021-2025 with marginal positive percent change, several U22 players, and a number of supplemental forwards with positive change.

10. YEAR-OVER-YEAR TRENDS

- **Designated Player ROI: Declining sharply.** 2021-2024 DPs showed excellent negative impacts (-10% to -17%). The 2025 DP Forward (+43.0%) represents a catastrophic reversal. The 2025 DP Midfielder remains strong (-13.5%), indicating position-specific scouting issues.
- **TAM Efficiency:** Inconsistent and trending negative. Early TAM players (2022-2023) showed some negative impacts. 2024-2025 TAM players are predominantly positive (harmful) or marginal.
- **U22 Efficiency: Persistent underperformance.** Across 2023-2025, U22 players consistently show neutral or positive percent change. CF Montreal is not extracting value from this roster mechanism.
- **Homegrown Impact: Excellent and improving.** Early Homegrown players (2021-2023) were marginal. 2024-2025 Homegrown defenders show elite negative impacts (-14% to -15%) at very low salaries. This is a clear organizational strength.
- **Goalkeeper Trend:** Mixed. The 2025 Senior GK shows elite negative impact (-19.6%), while supplemental GKs show neutral or positive values.

11. SUMMARY FIGURES

Figure 1 - Designation Analysis
 (Negative % = Team Gets Worse Without Player = Valuable Player)

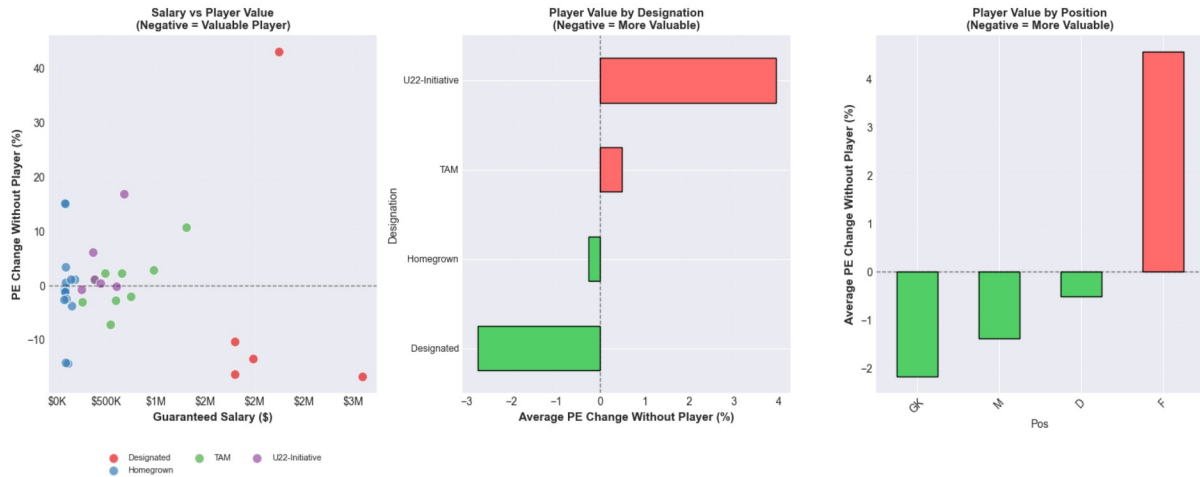


Figure 2 - International Analysis
 (Negative % = Team Gets Worse Without Player = Valuable Player)

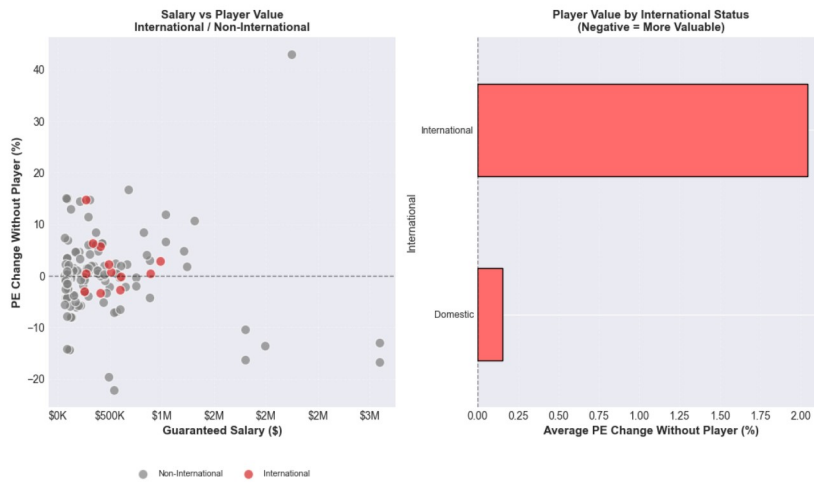


Figure 3 - Senior/Supplemental Analysis
 (Negative % = Team Gets Worse Without Player = Valuable Player)

