Best Pokémon for PvP June 11, 2019

Moves: They are all defined differently from PvE. In PvP, a move is defined by its power (the amount of damage it deals), its energy (the amount of energy it generates or uses) and its duration (the number of turns the move lasts, each turn lasts for 0.5s).

Three measures can be defined:

- DPT stands for Damage per turn. Equivalent to DPS in non-PvP scenarios. Higher is better. Only for fast moves.
- PT stands for Energy per turn. Equivalent to EPS in non-PvP scenarios. Higher is better. Only for fast moves.
- DPE stands for Damage per energy. DPE describes how efficiently you deal damage in comparison to the energy spent. Higher is better. Only for charged moves.

Examples of PvP stats for fast moves are:

	Move	Power	Energy	Duration (s)	DPT	EPT	
-	Mud Shot	3	9	2	1.50	4.50	
	Psycho Cut	3	9	2	1.50	4.50	
	O Thunder Shock	3	9	2	1.50	4.5	

Examples of PvP stats for charged moves are:

Move	Power	Energy	DPE
O Hydro Cannon	90	40	2.25
Frenzy Plant	100	45	2.22
O Blast Burn	110	50	2.20
Avalanche	90	45	2.00
O Draco Meteor	150	75	2.00

For more details: https://pokemongohub.net/post/pvp/pvp-move-stats-in-pokemon-go/

The Effective Health (EH) measures the bulkiness of a Pokémon and is computed via the formula:

$$EH = \frac{1}{900} \times (DEF \text{ at considered level}) \times (HP \text{ at considered level})$$

where DEF at considered level = (Base DEF + IV DEF) \times coeff_level and HP at considered level = (Base HP + IV HP) \times coeff_level Example of coefficients are

Level 20		Level 25	Level 30	Level 35	Level 40
coeff level	0.5974	0.667934	0.7317	0.76156384	0.7903

At level 40 (Master league).

Best Pokémon for PvP

- Leagues: Great league (CP ≤ 1500), Ultra league (CP ≤ 2500), Master league (no CP limit).
- Optimal IV and level (only for Great and Ultra leagues) (read https://pokemongohub.net/post/pvp/getting-ready-for-pvp/)
 We would like to compare Moltres and Charizard



For Moltres, the effective stats are

ATT IV	DEF IV	HP IV	LVL	CP	ATT	DEF	HP	SUM	EH	
15	15	15	25	2475	177	130	148	455	19240	
13	15	14	25.5	2500	178	132	149	459	19668	
0	15	3	27.5	2499	175	137	147	459	20139	
1	3	15	27.5	2499	176	128	155	459	19840	

For Charizard, the effective stats are:

ATT IV	DEF IV	HP IV	LVL	CP	ATT	DEF	HP	SUM	EH
15	15	15	30.5	2497	174	138	147	459	20286
15	0	0	35.5	2495	181	132	142	455	18744
0	15	15	34.5	2494	169	142	152	463	21584
15	13	14	31	2498	175	137	147	459	20139

Moltres (13, 15, 14) has better statistics for Ultra league than Moltres (15, 15, 15). For each league, there is an optimal IV set and level that maximises attack, defence and HP statistics. For Master league, the optimal IV set is (15, 15, 15) and optimal level is 40. Furthermore, Charizard (15, 13, 14) at level 31 and Moltres (0, 15, 3) at level 27.5 have exactly same statistics. To determine which one is most interesting in PvP, we must look at their moves.

▶ Battle simulator: https://www.pokebattler.com, https://pvpoke.com

Great league (CP ≤ 1500)



Ultra league (CP \leq 2500)



Master league (no CP limit)



Steal their look







