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.
- EPT 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 |
|----------------------------------|-------|--------|------|
| Hydro Cannon | 90 | 40 | 2.25 |
| Frenzy Plant | 100 | 45 | 2.22 |
| O Blast Burn | 110 | 50 | 2.20 |
| Avalanche | 90 | 45 | 2.00 |
| 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 | 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).

EH \(\leq 22,500\) very fragile fragile but viable 27,000 \(\ext{EH} \leq 31,500\) bulky \(\text{EH} \rac{1}{31,500}\) very bulky

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







