Marrow's Compendium of Dragonslaying

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Preamble

This is a guide on how to play a Fury Warrior in World of Warcraft Classic. It is a work in progress and a living document. All of the information contained within reflects what is best understood as of *today*, and some of is subject to change as more about the game is discovered.

More importantly, this is a guide for players who want to push the envelope of their class, and be the best they can be. That is not the playstyle of every player, nor am I advocating it should be. Ultimately, you should pick your race and spec so that they're both what you *enjoy* the most. To some people that is exactly what they'll find in this guide: doing all you can do to maximize your DPS and compete with your friends, or to clear the content as fast and efficiently as possible. To some other people, it might mean playing a Night Elf and raiding as Arms - and that's completely fine. Ultimately, both groups of players will find a guild and a community that fits them and enjoy this amazing game we love so much together.

Introduction

2.1 What is the aim of this guide?

This guide aims to help the reader from the ground up: from the foundational mechanics of World of Warcraft (WoW) combat, to an in-depth overview of warrior abilities and their utilization, to cooldown management, raid consumables, and finally how to analyze parses and learn from your own mistakes.

2.2 What is NOT the aim of this guide

DPS simulations will not be covered. There are several reasons for this, but the most important being that there are incredible, well maintained resources currently available for that exact purpose. Notable mentions include Steppenwolf's Classic Warrior Spreadsheet (Steppenwolf, 2019) and Aurana's Classic Warrior Fury DPS Simulator (Aurana, 2019).

In the same vein, questions on how to (specifically) gear will not be covered in this guide. This is because gearing is highly contextual - answering questions such as "What is better, Black Dragonscale 3set or Devilsaur Set with Truestrike Shoulders?" is impossible without knowing the rest of your gear and race. Therefore, when this guide makes recommendations, please be aware that exceptions do exist, but are rare. By the end, I hope the reader is knowledgeable enough about the base mechanics to critically assess and reason any gearing questions that he or she may have.

Mechanics

3.1 Introduction

Combat mechanics are at the core of the warrior class, and deeply impact our talent and gearing choices and combat rotation. Therefore, it is important to build a solid foundational understanding of these mechanics in order to make the correct decisions and *understand* the theory behind our choices moving forward.

There are two types of melee attacks: white (auto attacks) and yellow (special attacks). Yellow attacks function exactly like white attacks, except they *cannot* glance. Each white attack made by players against enemy mobs will result in one of the following:

- Miss
- Dodge
- Parry
- Glancing blow
- Block
- Critical Strike
- Hit

A mob being attacked from behind cannot block or parry, and thus these two outcomes are removed from the roll table. This means our white attacks can only either miss, be dodged, glance, hit, or critically hit. Therefore, in order to maximize our damage we need to minimize P(Miss), P(Dodge) and P(Glance), and maximize P(Crit). In the subsequent sections, we will take a deeper look into how we can achieve that.

3.2 Miss Chance, Weapon Skill, and Glancing Blows

3.2.1 Miss Chance

Blizzard has confirmed that players have an 8% chance to miss a creature that is 3 levels above them (Blizzard, 2019). Empirical work from (Magey et al., 2019) further corroborates a formula originally proposed by Beaza during vanilla (Beaza, 2006), which can be summarized as:

If the target is mob and the difference between it's defense rating and the attacker's weapon skill is 11 or more:

$$P(Miss) = 0.05 + ((T_{lvl} \times 5) - Atk_{skill}) \times 0.2$$
 (3.1)

If the target is mob and the difference between it's defense rating and the attacker's weapon skill is 10 or less:

Level Difference	Probability	Damage Penalty
0	0.1	0.05
1	0.2	0.05
2	0.3	0.15
3	0.4	0.35

Table 3.1: Glancing blow probability and damage penalty per level difference.

$$P(Miss) = 0.05 + ((T_{lvl} \times 5) - Atk_{skill}) \times 0.1$$
 (3.2)

Where T_{lvl} is the target's level, and Atk_{skill} is the attacker's weapon skill rating. While simple, this formula carries immense significance - it means that that by having 305 weapon skill, a player only has a 6% chance to miss an enemy mob 3 levels higher, which includes raid bosses. Conversely, a player with only 300 weapon skill will have an 8% chance to miss. This is a huge difference, especially in conjunction with the other benefits that weapon skill brings. It is important to note, however, that this is the behavior exhibited by wielding one one-handed weapon. If dual wielding, probability of missing an attack is calculated as:

$$P(DW_{miss}) = (P(Miss) \times 0.8) + 0.2$$
 (3.3)

As a disclaimer, Magey notes that further testing is still required to assert the correctness of this formula.

3.2.2 Glancing Blows

Glancing blows are a type of attack that can only occur when fighting an enemy of equal or higher value, and are restricted to white attacks. In accordance with Beaza, Magey has determined the glancing blow probability to be as follows:

$$P(Glancing) = 0.1 + (T_{lvl} \times 5 - \min(Atk_{lvl} \times 5, Atk_{skill})) \times 0.2$$
(3.4)

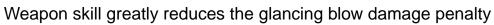
Where Atk_{lvl} is the player's level, and Atk_{skill} is the player's weapon skill value. Knowing that, we can compute the probability that our white attacks will glance, and the damage penalty that that glancing blow carries against enemies of different levels:

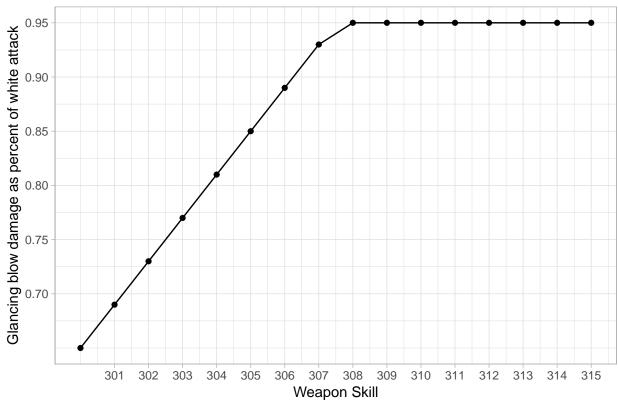
This means that against a level 63 enemy mob (all raid bosses) and with 300 weapon skill our white attacks have a 40% chance of being glancing blows, therefore only being capable of dealing 65% of their maximum damage. Needless to say this is an immense DPS loss and should be mitigated as much as possible, and the *only* way that can be done is through increasing the player's weapon skill.

Table 3.2: Good Title here

Weapon Skill	Percent of White Attack	Miss Probability	Hit Cap
300	0.65	0.080	0.090
301	0.69	0.078	0.088
302	0.73	0.075	0.086
303	0.77	0.074	0.084
304	0.81	0.072	0.082
305	0.85	0.060	0.060
306	0.89	0.059	0.059
307	0.93	0.058	0.058
308	0.95	0.057	0.057
309	0.95	0.056	0.056
310	0.95	0.055	0.055
311	0.95	0.054	0.054
312	0.95	0.053	0.053
313	0.95	0.052	0.052
314	0.95	0.051	0.051
315	0.95	0.050	0.050

3.2.3 Weapon Skill





- 3.3 The Crit Cap
- 3.4 Flurry

Abilities and Rotation

4.1 Bloodthirst

- 1. Introduction to BT(CD,usage, formula, percent of overall damage)
- 2. Why is BT so good? Scaling
- 3. BT damage is weapon agnostic

4.2 Whirlwind

- 1. Intro to WW (CD, usage, formula, percent of overall damage)
- 2. When to use and prioritize WW (ST vs Multi-target fights)
- 3. WW damage scales with weapon topend

4.3 Execute

- 1. Intro to Execute (CD, usage, formula, % of overall damage)
- 2. Execute batching
- 3. Execute damage per rage

4.3.1 Execute Switch

- 1. Why it was effective on private servers
- 2. Why it's not effective in Classic a. Batching b. Execute phase duration

4.4 Heroic Strike and Cleave

- 1. Introduction (formula)
- 2. Opportunity cost why damage per ratio is deceptive

4.4.1 HS Queuing

- 1. Explanation (include macro)
- 2. Consequences
- 3. When should you queue?

4.5 Slam

- 1. Intro to Slam
- 2. How spell batching affects Slam
- 3. Viability of Slam

4.6 Hamstring

- 1. Intro to Hamstring
- 2. Why use Hamstring?

4.7 Overpower

- 1. Intro to Overpower
- 2. Should you use OP? If so, when?

4.8 Damage per Rage

- 1. Damage per Rage comparison between main rotational abilities (BT, WW, Exec)
- 2. Execute DPR decreases the more rage you have
- 3. The impact of scaling on DPR, and how that affects your rotation

4.9 The Warrior Priority System

1. The Warrior Priority System

Cooldowns

5.1 Death Wish

- 1. Intro to DW
- 2. Utilization

5.2 Recklessness

- 1. Intro to Reck
- 2. Utilization

5.3 Trinkets

5.4 Mighty Rage Potion

- 1. Intro to MRP
- 2. Utilization

5.5 Bloodrage

- 1. Intro to Bloodrage
- 2. Utilization

5.6 Berserker Rage

- 1. Intro
- 2. Utilization

5.7 Racials

5.7.1 Blood Fury

- 1. Intro
- 2. Formula
- 3. Scaling (AP/Str)
- 4. Utilization

5.7.2 Berserking

- 1. Intro
- 2. Utilization

Consumables

- 6.1 Required
- 6.1.1 Mongoose
- 6.1.2 Juju/Giants
- 6.1.3 Firewater/Juju
- 6.2 R.O.I.D.S and Scorpok
- 6.3 Protection Potions
- 6.4 Assorted
- 6.4.1 Limited Invulnerability Potions
- 6.4.2 Restorative Potions
- 6.4.3 Free Action Potions

Parsing

- 1. Intro to parses
- 2. How parses can be gamed
- 3. Your parse does not define how good of a player you are
- 4. Parses can still be very useful

7.1 Factors Affecting Parses

7.1.1 World Buffs

- 1. List obtainbale world buffs
- 2. Lay out the value you get from them
- 3. World buffs are essential if you want to parse highly.

7.1.2 Kill Time & Raid DPS

- 1. Your guild is the most important factor in whether you'll parse well or not.
- 2. Your guild DPS severely impact your parses i. High guild DPS is essential ii. Fitting a boss kill within a Reck/DW window.

7.1.3 "What did I do wrong?"

- 1. Importance of critical self evaluation
- 2. How to look at your own parses and evaluate your performance a. BT casts per minute and interval between BTs b. Boss uptime and the importance of Charge and Intercept c. Cooldown timings

Bibliography

Aurana (2019). Classic wow fury dps simulator.

Beaza (2006). Miss chance in world of warcraft.

Blizzard (2019). Attack table clarifications.

Magey, Vilius, dmzor, Pufffymuffins, Towneh, Scylla, and Pyte (2019). Attack table in classic wow.

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