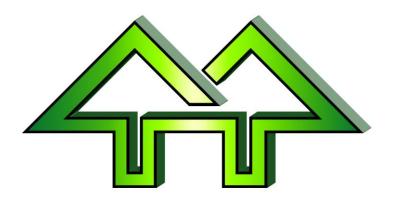**Instructions for**

Using Formulas in Winfree

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Table of Contents

1   Using Formulas

1.1   Introduction

Formulas (or "formulae" if you're an English major) **can be entered wherever a score can be entered**. For example, scores could be:

- 5.6 -.6   Mogul turns and line of 5.6, with deductions of .6
- 1.1 + 3.4 + 1.7   Overall aerial scoring for Height and Distance of 1.1, Form of 3.4, and Landing of 1.7

    Same aerial scoring as above, but by sub-components (Takeoff, etc.)

1.2   Helping the judges with Math

Optionally, the judges might want help with math. If not, don't worry about this and skip to Section 2 of this document.

If they do, you can offer to do all the math for them

- 5.6 -.2 - .4   Mogul turns and line of 5.6, with deductions of .2 and .4
- 1.1 + 3.4 + 1.7   Overall aerial scoring for Air of 1.1, Form of 3.4, and Landing of 1.7
- 1.0+0.1 +   Same aerial scoring as above, but by sub-components (Takeoff, etc.)
  1.5+1.5+1.4-1.0 +
  1.0+.7

This means that judges never need to do arithmetic, increasing the speed of on-hill scoring and reducing the chance of math errors.

1.3   Parenthesis

Parentheses are optional. They are the standard math format, and are used to **make it clearer which numbers go with which "components"**. For example

- 5.6 + (-.2 -.4)   Mogul turns and line of 5.6, with deductions of .2 and .4
- 5.6 - (.2 + .4)   Mogul turns and line of 5.6, with deductions of .2 and .4 (same as above)
- 　　　　　　　　　　　 Overall aerial scoring for
  (1.0+0.1) +   Air (Takeoff of 1.0, Height/Distance of 0.1), plus
  (1.5+1.5+1.4-1.0) +   Form (Positions of 1.5, 1.5, and 1,4, with a deduction of 1.0)
  (1.0+.7)   Landing (Touchdown of 1.0, Exit of .7)

When you enter **scores without parenthesis**, such in the examples above, **Winfree automatically changes them to the clearer parenthesized format** shown in Section 1.2.

2 Scoring

2.1 Use of Components in Aerials and Moguls

The total score calculation in **FIS aerials and moguls** uses the components for Moguls and Aerials, rather than the total for each judge. This is only true for Moguls when there are 4 or more, or Aerials when there are 6 or more judges. As a result, **you <u>must</u> enter each component in this case**.

There are 2 components in moguls:

- **Turns and Line**   Basic score
- **Deductions**   All reductions in basic score (optional)

There are 3 components in aerials:

- **Air**   Score for Air (including Takeoff and Height/Distance)
- **Form**   Score for all Air (including all Positions and a deduction)
- **Landing**   Score for Landing (including Touchdown and Exit)

In FIS moguls and aerials, you must enter the correct number of components:

- For **FIS aerials**, there must **be exactly 3 components (e.g., "1.7+2.5+1.7")**. Anything else will produce an error.

- For **FIS moguls**, there must be **exactly 1 component if there are no deductions (e.g., "4.5")** and **exactly 2 components when there are deductions (e.g., "4.5-1.2"**. Anything else will produce an error.

2.2 Use of Components in Slopestyle

Components can use used in Slopestyle to give a score to each feature (e.g., "12+6+22+17" for 4 features. This allows the competitors to see how they scored on each feature, how the judges rated them, and the feature totals.

2.3   Listings

There are 3 listings:

"No formulas" will produce a listing similar to those in the past, with only judges' totals. This produces less paper, but does not allow the judges or competitors see the components.

"1-Line formulas" will put the formulas in a single line below each result. This can be handy for checking.

```
------------------------------------------------------------------------
Aerials Run 1              Run                      Date: Oct 27, 201
Female/Male                (By  Score)              Time: 3:15 pm
Formulas                   Formulas
------------------------------------------------------------------------
 |                                     |                   |
 No| Bib Name              Gp  Rep| J.1 J.2 J.3 J.4 J.5| Judge   Manuvr
===|=== ================ == ===|=== === === === ===|===== ========
 |                                     |                   |
  1|  1 AA                 Mll Mid| 4.0 3.5 3.6 3.6 3.0| 10.40        bL
 |     J.1=1.0+2.0+1.0=4.0,  J.2=.5+1.5+1.5=3.5,  J.3=.8+.8+2.0=3.6,
 |     J.4=.9+.9+1.8=3.6,  J.5=1.0+1.0+1.0=3.0
 |                                     |                   |
 |                                     |                   |
```

""Multi-Line formulas" will put one component per line, with high and lows deleted.

```
------------------------------------------------------------------------
Aerials Run 1              Run                      Date: Oct 27, 2010
Female/Male                (By  Score)              Time: 3:14 pm
Formulas                   Formulas
------------------------------------------------------------------------
 |                                       |                     |
 No| Bib Name              Gp  Rep|  J.1   J.2   J.3   J.4   J.5| Judge   M
===|=== ================ == ===| ==== ==== ==== ==== ====|===== ====
 |                                       |                     |
  1|  1 AA                 Mll Mid| X1.0X  X.5   .8   .9  1.0|  2.7
 |                              +2.0  +1.5  X.8  +.9 +1.0|  3.4
 |                              X1.0X +1.5  X2.0X +1.8 +1.0|  4.3
 |                              =4.0  =3.5 =3.6 =3.6 =3.0| 10.40
 |                                       |                     |
Winfree 2017.05, A Rules, Rand=0, A, Not Elim
```