



(Manuell) Beräkning av FIS-punkter

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SWEDISH SKI ASSOCIATION

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RULES FOR FIS CROSS-COUNTRY POINTS 2016-2017



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Race Penalty och Race Points ger FIS Points

- Race Penalty – Beskrivning av kvaliteten på åkarna
- Race Points – Beskrivning hur långt efter segraren resp. åkare är
- FIS-points – Race Penalty + Race Points

Race Penalty

The importance of a competition is determined by the quality of the competitors participating. This quality affects the calculation of the race penalty.

The race points gained in the competition and calculated according to the formula, plus the calculated race penalty will give each classified competitor the FIS points of the competition.

F-Value

Factor	Competition format
Factor 800	Competitions with interval start and Pursuit 1 st part
Factor 1200	Sprints and Pursuit competitions 2 nd part
Factor 1400	Competitions with Mass start and Skiathlon
Factor 2800	Rollerski and FIS long distance popular competitions (art. 2.6)



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Krav på tävlingen

- Valid FIS competition
 - Finns i FIS kalendern
 - Genomförd enligt ICR
 - Minst 5 åkare med aktiv FIS-kod
 - Inga bonussekunder finns med i resultatet
 - Genomförd på en homologiserad bana
 - Om ROL \geq 800 m



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Aktiva FIS koder, och sammanslagning

- Endast åkare med aktiv FIS-kod får delta i FIS tävling
- Effekter vid inläsning av xml-fil

FIS Code Number

Only competitors (Ladies and Men) with an active FIS Code are allowed to participate at FIS competitions.

The FIS code numbers can be ordered at the National Ski Associations.

- Sammanslagning skall ske om samma förutsättningar; startgrupp, distans och starttid

Age Categories

The points calculation will be made for the age category seniors, men and ladies separately. Juniors will be listed in the seniors' category when they have the same start groups, same distance and starting time. In these cases we should get only one result list including both, juniors and seniors!



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Beräkning av Race Penalty

- Av top 5
- Summera FIS-punkterna för de tre åkare med de lägsta värdena
- Dividera med 3,75
- Avrunda till 2 decimaler

Calculating Penalties

To calculate the race penalty, the following are considered (see fig.1a/1b).

The competitors who finish among the top five of the race.

The FIS points of the top five competitors (Art. 5.3.1.1) from the actual FIS points list are considered and the three best values are added and divided by 3.75. This is the race penalty. The points shall be rounded down from four thousandths of a point downwards and rounded up from five thousandths of a point upward (e.g. $13.654 = 13.65$ or $21.849 = 21.85$).



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Beräkning av Race Penalty, forts

- Om det är färre än 3 åkare bland top 5 som har FIS-punkter, eller
- om någon av top 5 inte finns med i aktuell FIS-lista, då
- ersätt FIS-punkterna med värden från tabellen
- Om, delade platser, tag den åkare med lägst FIS-punkter

If there are less than three competitors with FIS points among the first five of the result list or if a competitor is not included in the actual FIS points list or if points are above the maximum value stated below, the competitors will receive following maximum value:

- 176 for competitions with Interval start
- 264 for Sprints and Pursuit competitions
- 308 for Competitions with Mass start and Skiathlon
- 528 for Rollerski and FIS long distance popular competitions (according art. 2.6)

In the event two or more competitors are tied for fifth, three or more are tied for fourth, etc. the skiers having the best FIS points will be used in the calculation of the penalty.



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Minimum regeln

- Om, ej OS, VM eller WC
- Race Penalty det högsta av beräknat och Minimum värden

Competitions with minimum Penalties

If the calculated penalty (according to art. 5.3.1.2) is higher than the minimum penalty (see art. 5.3.2.3.), the calculated penalty will be applied to the race.

If the calculated penalty is less than the minimum penalty, the minimum penalty will be applied to the race.

Table of minimum Penalties

	Ladies	Men
U23 World Championships	25	25
Junior World Championships	35	35
Senior COC and FIS competitions	20	20
FIS long distance popular competitions longer than 50km (42km over 1500m above the sea level), only main competition	35	35
Junior COC and FIS competitions	35	35
EYOF	60	60
Youth Olympic Games YOG	50	50
FIS ROL WC/WSC	15	15
FIS ROL Juniors WC/WSC	50	50
FIS ROL competitions	35	35



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Maximum regeln

- Om
 - OS, VM eller WC
 - Fixed Race Penalty = 0

Competitions with fixed Penalties

For Olympic Winter Games, Ski World Championships and World Cup a fixed Penalty of 0 will be applied.

Table with fixed Penalties

	Ladies	Men
Olympic Winter Games	0	0
World Ski Championships	0	0
World Cup	0	0



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Beräkning av Race Points

$$P = \frac{F \cdot T_x}{T_o} - F \quad \text{or/ou/oder} \quad \left(\frac{T_x}{T_o} - 1 \right) \cdot F$$

P	=	Race points	Points de course	Rennpunkte
T _o	=	Time of the winner in seconds	Temps du vainqueur en secondes	Zeit des Siegers in Sekunden
T _x	=	Time of the clas- sified competitor in seconds	Temps du concurrent classé en secondes	Zeit des klassier- ten Wettkämpfers in Sekunden

Faktor		Bewerbe
Faktor	800	Bewerbe mit Intervall Start und Verfolgung 1. Teil/ Competitions with interval start and Pursuit 1 st part/ Compétitions avec départ intervalle et poursuite 1ère part
Faktor	1200	Bewerbe mit Verfolgungsstart 2. Teil, Sprint/ Pursuit start competitions 2 nd part, Sprint/ Compétitions avec départ poursuite 2ème part, Sprint
Faktor	1400	Bewerbe mit Massenstart und Skiathlon/ Competitions with Mass start and Skiathlon/ Départ en ligne et Skiathlon
Faktor	2800	Rollerski and FIS long distance popular competitions (art. 2.6)/ Rollerski und FIS Langdistanz Volksskilangläufe (art. 2.6)/ ski à roulettes et FIS longue distances populaire compétitions



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Exempel Race Points

Example:/ Exemple:/ Beispiel: 2x5 km (Skiathlon)

1. Smigun, EST	26.38.4 (To)
2. Sachenbacher, GER	26.39.0
3. Savialova, RUS	26.39.0

Race points (P) Sachenbacher (Tx):

$$P = \frac{1400 \cdot 1599}{1598.4} - 1400 = 0.53$$

Race points (P) for Savialova (Tx) - (alternative formula):

$$P = \frac{1599}{1598.4} - 1 \cdot 1400 = 0.53$$



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Praktisk övning

- Beräkna
 - Race Penalty
 - Ange vilket Race Penalty som skall användas
 - Calculated/Applied Penalty
 - Beräkna Race Points och FIS-points för top 5
- WC Falun Ladies 5k C
- FIS WC Falun Men 15k Masstart Free
- SM Piteå Sprint Qual Herrar
- Scandic Cup Idre H21 20k Interval start Free



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WC Falun Ladies 5k C

0,00		
5,41		
8,29		
13,70	3,75	3,653

$(847,70/829,10)-1*800=17,95$

Competition: FIS WC Falun Ladies 5k Ind Classic
Date: 2016-02-13

Type of Race Intervallstart **800** **Applied penalty ==>** 0,00 Competition valid for FIS points
Level of Race World Cup **Calculated penalty ==>** 3,65

Place	FIS code	Last name	Surname	FIS Points <>0	hh:mm:ss,hh	Race points	FIS points
1	3425301	JOHAUG	Therese	0,00	0:13:49,10	0,00	0,00
2	3425499	WENG	Heidi	8,29	0:14:07,70	17,95	17,95
3	3425410	OESTBERG	Ingvild Flugstad	5,41	0:14:18,30	28,18	28,18
4	3425183	JACOBSEN	Astrid Uhrenholdt	10,58	0:14:18,70	28,56	28,56
5	3535410	DIGGINS	Jessica	18,61	0:14:26,30	35,89	35,89



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WC Falun Ladies 5k C

Jury Information

FIS TECHNICAL DELEGATE	PRYKARI Jussi (FIN)
FIS RACE DIRECTOR	MIGNEREY Pierre (FIS)
FIS ASSISTANT TECHNICAL DELEGATE	ROSA Anna (ITA)
ASSISTANT TD NAT.	SUNDBAUM Mikaela (SWE)
CHIEF OF COMPETITION	JONS Tomas (SWE)

Course Information

NAME:	5km Blue
HEIGHT DIFFERENCE (HD):	84 m
MAXIMUM CLIMB (MC):	65 m
TOTAL CLIMB (TC):	182 m
LENGTH OF LAP:	5009 m
NUMBER OF LAPS:	1

RANK	BIB	FIS CODE	NAME CLUB	NSA CODE DATE OF BIRTH	1.7 KM		3.2 KM		FINISH TIME	BEHIND	FIS POINTS
					TIME	RANK	TIME	RANK			
1	52	3425301	JOHAUG Therese IL Nansen	NOR 25 JUN 1988	5:01.1	1	9:13.2	1	13:49.1	0.0	0.00
2	54	3425499	WENG Heidi IL i BUL	NOR 20 JUL 1991	5:08.5	2	9:24.6	2	14:07.7	+18.6	17.95
3	56	3425410	OESTBERG Ingvild Flugstad Gjoevik Skiklubb	NOR 9 NOV 1990	5:13.8	4	9:31.7	3	14:18.3	+29.2	28.18
4	40	3425183	JACOBSEN Astrid Uhrenholdt IL Heming	NOR 22 JAN 1987	5:15.6	6	9:35.5	4	14:18.7	+29.6	28.56
5	32	3535410	DIGGINS Jessica Stratton Mountain School	USA 26 AUG 1991	5:21.2	11	9:39.6	6	14:26.3	+37.2	35.89

The screenshot shows the FIS website interface for the WC Falun Ladies 5k C race. The browser address bar displays the URL: data.fis-ski.com/dynamic/results.html?sector=CC&raceid=25814. The page features a navigation menu with categories like Cross-Country, Ski Jumping, Nordic Combined, Alpine Skiing, Freestyle Skiing, Snowboard, and Other Disciplines. Below the menu, there are search filters for Nation (set to SUI or SUI,FRA,ITA) and Year of birth (set to 1972,1975 or 1980-1985). The main content area displays a table of race results, including rank, bib number, FIS code, name, year, nation, time, behind, and FIS points. The results table is identical to the one provided in the previous block.



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FIS WC Falun Men 15k Masstart Free

$$\begin{array}{r}
 0,00 \\
 2,38 \\
 3,69 \\
 \hline
 6,07
 \end{array}
 \quad
 \begin{array}{r}
 \\
 \\
 \\
 3,75
 \end{array}
 \quad
 \begin{array}{r}
 \\
 \\
 \\
 1,619
 \end{array}
 \quad
 (1902,80/1902,50)-1*1400=0,22$$

Competition: FIS WC Falun Men 15k Masstart Free

Date: 2016-02-14

Type of Race Masstart 1400

Applied penalty ==> 0,00

Competition valid for FIS points

Level of Race World Cup

Calculated penalty ==> 1,62

Place	FIS code	Last name	Surname	FIS Points <>0	hh:mm:ss,hh	Race points	FIS points
1	3481539	USTIUGOV	Sergey	10,37	0:31:42,50	0,00	0,00
2	3290379	DE FABIANI	Francesco	8,51	0:31:42,80	0,22	0,22
3	3420228	SUNDBY	Martin Johnsrud	0,00	0:31:42,90	0,29	0,29
4	3420577	DYRHAUG	Niklas	2,38	0:31:43,40	0,66	0,66
5	3420961	KROGH	Finn Haagen	3,69	0:31:43,50	0,74	0,74



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FIS WC Falun Men 15k Masstart Free

Jury Information

FIS TECHNICAL DELEGATE	PRYKAERI Jussi (FIN)
FIS RACE DIRECTOR	MIGNEREY Pierre (FIS)
FIS ASSISTANT TECHNICAL DELEGATE	ROSA Anna (ITA)
ASSISTANT TD NAT.	SUNDBAUM Mikaela (SWE)
CHIEF OF COMPETITION	JONS Tomas (SWE)

Course Information

NAME:	5km Blue
HEIGHT DIFFERENCE (HD):	84 m
MAXIMUM CLIMB (MC):	65 m
TOTAL CLIMB (TC):	546 m
LENGTH OF LAP:	5009 m
NUMBER OF LAPS:	3

RANK	BIB	FIS CODE	NAME CLUB	NSA CODE DATE OF BIRTH	3.2 KM		8.2 KM		11.7 KM		FINISH TIME	BEHIND	FIS POINTS
					TIME	RANK	TIME	RANK	TIME	RANK			
1	8	3481539	USTIUGOV Sergey	RUS 8 APR 1992	7:00.8	1	17:37.5	10	25:09.7	10	31:42.5	0.0	0.00
2	10	3290379	DE FABIANI Francesco C.S. ESERCITO	ITA 21 APR 1993	7:05.1	11	17:41.4	18	25:14.1	21	31:42.8	+0.3	0.22
3	1	3420228	SUNDBY Martin Johnsrud Roea IL	NOR 26 SEP 1984	7:01.8	3	17:34.6	1	25:12.1	16	31:42.9	+0.4	0.29
PF 4	2	3420577	DYRHAUG Niklas Tydal IL	NOR 6 JUL 1987	7:02.3	4	17:34.8	2	25:10.1	11	31:43.4	+0.9	0.66
PF 5	9	3420961	KROGH Finn Haagen Tverrelvdalen IL	NOR 6 SEP 1990	7:00.8	2	17:37.9	11	25:11.7	14	31:43.5	+1.0	0.74

data.fis-ski.com/dynamic/results.html?sector=CC&raceid=25817

Nation : Year of birth :

Rank	Bib	FIS Code	Name	Year	Nation	Time	Behind	FIS Points
1	8	3481539	USTIUGOV Sergey	1992	RUS	31:42.5		0.00
2	10	3290379	DE FABIANI Francesco	1993	ITA	31:42.8	+0.3	0.22
3	1	3420228	SUNDBY Martin Johnsrud	1984	NOR	31:42.9	+0.4	0.29
4	2	3420577	DYRHAUG Niklas	1987	NOR	31:43.4	+0.9	0.66
5	9	3420961	KROGH Finn Haagen	1990	NOR	31:43.5	+1.0	0.74
6	11	3480013	VYLEGZHANIN Maxim	1982	RUS	31:43.8	+1.3	0.96
7	5	3480016	LEKGOV Alexander	1983	RUS	31:44.3	+1.8	1.32
8	14	3421320	IVERSEN Emil	1991	NOR	31:44.6	+2.1	1.55
9	15	3180053	HEIKKINEN Matti	1983	FIN	31:44.8	+2.3	1.69



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SM Piteå Sprint Qual Herrar

15,78				(165,83/165,03)-1*1200=5,82
36,86				
56,55				
<hr/>				
109,19	3,75	29,117		

Competition: SM Piteå Sprint Qual Herrar

Date: 2016-01-30

Type of Race Sprint >800 m 1200 Applied penalty ==> 29,12 Competition valid for FIS points

Level of Race Senior COC & FIS Competitions Calculated penalty ==> 29,12

Place	FIS code	Last name	Surname	FIS Points <>0	hh:mm:ss,hh	Race points	FIS points
1	3500409	EDIN	Johan	15,78	0:02:45,03	0,00	29,12
2	3501346	THORN	Viktor	84,79	0:02:45,83	5,82	34,93
3	3500625	NORDSTROEM	Gustav	36,86	0:02:47,07	14,83	43,95
4	3500991	WESTBERG	Karl-Johan	56,55	0:02:47,21	15,85	44,97
5	3501085	DYVIK	Karl-Johan	105,37	0:02:47,27	16,29	45,41



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SM Piteå Sprint Qual Herrar

Jury Information					Course Information			
Technical Delegate:	GRANLUND Thomas	SWE	Name:	Sprintbanan				
Assistant Technical Delegate	SUNDBAUM Mikaela	SWE	Height Difference (HD):	22 m				
Chief of Competition	AXELSSON Jenny	SWE	Maximum Climb (MC):	13 m				
Assistant TD Nat.	STENMARK Gunilla	SWE	Total Climb (TC):	51 m				
			Length of Lap:	1400 m				
			Number of Laps:	1				

Rk.	Bib	FIS Code	Name	Team	Finish Time	Behind	Fis Points	Remarks
1	101	3500409	EDIN Johan	IFK Mora SK	2:45.03	0.00	29.12	Qualified
2	113	3501346	THORN Viktor	Ulricehamns IF	2:45.83	0.80	34.94	Qualified
3	103	3500625	NORDSTRÖM Gustav	Borås SK	2:47.07	2.04	43.95	Qualified
4	110	3500991	WESTBERG Karl-Johan	Borås SK	2:47.21	2.18	44.97	Qualified
5	120	3501085	DYVIK Karl-Johan	Falun Borlänge SK	2:47.27	2.24	45.41	Qualified

data.fis-ski.com/dynamic/results.html?sector=CC&raceid=26493

Logged Off https://minasidor.sec

FIS Cross-Country | Ski Jumping | Nordic Combined | Alpine Skiing | Freestyle Skiing | Snowboard | Other Disciplines

Rank	Bib	FIS Code	Name	Year	Nation	Time	Behind	FIS Points
1	101	3500409	EDIN Johan	1987	SWE	00:02:45.03		29.12
2	113	3501346	THORN Viktor	1996	SWE	00:02:45.83	+0.80	34.94
3	103	3500625	NORDSTROEM Gustav	1989	SWE	00:02:47.07	+2.04	43.95
4	110	3500991	WESTBERG Karl-Johan	1992	SWE	00:02:47.21	+2.18	44.97
5	120	3501085	DYVIK Karl-Johan	1993	SWE	00:02:47.27	+2.24	45.41
6	123	3501340	GRATE Marcus	1996	SWE	00:02:47.36	+2.33	46.06
7	105	3500762	LINDBLAD Anton	1990	SWE	00:02:47.72	+2.69	48.68
8	102	3500778	SILFVER Erik	1990	SWE	00:02:47.88	+2.85	49.84
9	111	3500880	JOHANSSON Emil	1991	SWE	00:02:48.62	+3.59	55.22
10	125	3501224	HEDLUND Anton	1994	SWE	00:02:48.79	+3.76	56.46
11	106	3500983	QUICKLUND Carl	1992	SWE	00:02:48.85	+3.82	56.90
12	115	3500326	NORUM Robin	1988	SWE	00:02:48.90	+3.87	57.26
13	108	3500330	PETERSON Teodor	1988	SWE	00:02:49.88	+4.85	64.39



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Scandic Cup Idre H21 20k Interval start Free

31,12		
50,98		
66,87		
148,97	3,75	39,725

$(2664,10/2648,70)-1*800=4,65$

Competition: Scandic Cup Idre H21 20k Interval start Free
 Date: 2015-12-05

Type of Race Intervallstart 800 Applied penalty ==> 39,73 Competition valid for FIS points
 Level of Race Senior COC & FIS Competitions Calculated penalty ==> 39,73

Place	FIS code	Last name	Surname	FIS Points <>0	hh:mm:ss,hh	Race points	FIS points
1	3500762	LINDBLAD	Anton	31,12	0:44:08,70	0,00	39,73
2	3500319	JONSSON	Anders	66,87	0:44:24,10	4,65	44,38
3	3500991	WESTBERG	Karl-Johan	50,98	0:44:32,70	7,25	46,97
4	3501010	HAEGGSTROEM	Johan	87,40	0:44:39,90	9,42	49,15
5	3501167	ENGDahl	Petter	71,12	0:44:57,20	14,65	54,37



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Scandic Cup Idre H21 20k Interval start Free

Jury Information				Course Information			
Technical Delegate	ILHAMN Henrik	SWE	Name:	20 km			
Assistant Technical Delegate	ELMKVIST Magnus	SWE	Height Difference (HD):	46 m			
Chief of Competition	LARSSON Sven	SWE	Maximum Climb (MC):	20 m			
			Total Climb (TC):	606 m			
			Length of Lap:				
			Number of Laps:	6			

Rk.	Bib	FIS Code	Name Club	NSA Code Date of Birth	Finish Time	Behind	Fis Points
1	214	3500762	LINDBLAD Anton Hudiksvalls IF	SWE 1990	44:08.7	0.0	39.73
2	205	3500319	JONSSON Anders Stockviks SF	SWE 1987	44:24.1	15.4	44.38
3	210	3500991	WESTBERG Karl-Johan Borås SK	SWE 1992	44:32.7	24.0	46.98
4	184	3501010	HÄGGSTRÖM Johan Kalix SK	SWE 1992	44:39.9	31.2	49.15
5	200	3501167	ENGDAHL Petter Östersunds SK	SWE 1994	44:57.2	48.5	54.38



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