

APPENDIX TO FAIR DECATHLON MODEL - PART V

FDM and Crawford Median Comparison by Cohort

Official event-score medians in seven lower leave-one-event-out bands

Each cell is shown as FDM Median / Crawford Median (difference). FDM Median is the median official event score in the event-specific FDM LOO cohort; it is not a score calculated with FDM-40N. The 7000-7249 cohort uses the full unified master. All lower cohorts use the lower-derived subset. Crawford cohorts are defined by full official total, so exact equality is neither expected nor required.

Table A1. Day One median comparison

Event	7000-7249	6500-6749	6000-6249	5500-5749	5000-5249	4500-4749	4000-4249
100 m	797 / 789 (+8)	761 / 757 (+4)	748 / 723 (+25)	705 / 691 (+14)	655 / 651 (+4)	622 / 606 (+16)	588 / 551 (+37)
Long jump	785 / 778 (+7)	725 / 720 (+5)	675 / 661 (+14)	624 / 608 (+16)	576 / 556 (+20)	525 / 508 (+17)	473 / 453 (+20)
Shot put	631 / 649 (-18)	583 / 599 (-16)	538 / 548 (-10)	506 / 505 (+1)	462 / 469 (-7)	423 / 437 (-14)	396 / 409 (-13)
High jump	714 / 723 (-9)	670 / 679 (-9)	627 / 636 (-9)	585 / 585 (+0)	552 / 544 (+8)	504 / 496 (+8)	464 / 449 (+15)
400 m	773 / 773 (+0)	735 / 735 (+0)	701 / 695 (+6)	649 / 650 (-1)	586 / 596 (-10)	544 / 542 (+2)	503 / 478 (+25)
Mean difference	8.4	6.8	12.8	6.4	9.8	11.4	22.0

Table A2. Day Two median comparison

Event	7000-7249	6500-6749	6000-6249	5500-5749	5000-5249	4500-4749	4000-4249
110 m hurdles	812 / 808 (+4)	760 / 758 (+2)	730 / 695 (+35)	659 / 631 (+28)	550 / 542 (+8)	440 / 428 (+12)	346 / 323 (+23)
Discus throw	607 / 627 (-20)	557 / 568 (-11)	495 / 513 (-18)	462 / 459 (+3)	404 / 414 (-10)	361 / 371 (-10)	327 / 343 (-16)
Pole vault	702 / 702 (+0)	645 / 645 (+0)	576 / 562 (+14)	509 / 482 (+27)	406 / 406 (+0)	333 / 342 (-9)	264 / 275 (-11)
Javelin throw	599 / 618 (-19)	546 / 556 (-10)	483 / 502 (-19)	451 / 454 (-3)	402 / 417 (-15)	354 / 381 (-27)	324 / 346 (-22)
1500 m	642 / 647 (-5)	615 / 613 (+2)	584 / 589 (-5)	558 / 557 (+1)	535 / 518 (+17)	491 / 483 (+8)	482 / 446 (+36)
Mean difference	9.6	5.0	18.2	12.4	10.0	13.2	21.6

Sampling and interpretation

The tables above compare event-specific LOO samples with Crawford's independent full-total cohorts. They are intended to show the level and direction of the differences that are hidden when ten events are compressed into one mean absolute difference.

Table A3. Cohort sampling and overall median agreement

Cohort	FDM sample	Event N range	Mean difference , all events
7000-7249	Full FDM	3955-5134	9.0
6500-6749	Lower-derived FDM	1583-2073	5.9
6000-6249	Lower-derived FDM	884-1035	15.5
5500-5749	Lower-derived FDM	654-860	9.4
5000-5249	Lower-derived FDM	424-538	9.9
4500-4749	Lower-derived FDM	401-504	12.3
4000-4249	Lower-derived FDM	320-371	21.8

The 6500-6749 source seam

The full unified sample is not used for this cohort because the former upper-source boundary overrepresents athletes whose omitted event was unusually strong. The lower-derived sample reduces the mean absolute difference from Crawford from 18.8 to 5.9 points per event. Crawford values are taken from Table 1 of *Are the Decathlon Tables Fair?* (2018).

Table A4. Detailed 6500-6749 comparison

Event	Crawford Median	Full FDM Median	Diff.	Lower-derived FDM Median	Diff.
100 m	757	789	+32	761	+4
Long jump	720	755	+35	725	+5
Shot put	599	585	-14	583	-16
High jump	679	687	+8	670	-9
400 m	735	762	+27	735	+0
110 m hurdles	758	790	+32	760	+2
Discus throw	568	558	-10	557	-11
Pole vault	645	659	+14	645	+0
Javelin throw	556	549	-7	546	-10
1500 m	613	622	+9	615	+2