

Study on National Basketball Association players

Astrology

Study on the National Basketball Association players

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## Data

### Players

A file *Players* containing 3,690 data has been created. The names of the players are on a list published on the [Basketball Reference](#) website.

### Natural Births

The *Nbs* control file (see [Introduction Sports\\_En\\_Analysis.pdf](#)) covers the period 1920-1985 for sections 1 and 2. Its results are compared with those of the *Players* file.

### Control Group

A *GRP* control file was created to compare its results (Section 3) with those of the *Players* file. The birth months have been distributed on the base of the birth curve of the [NBA](#) players.

Period	Data	J	F	M	A	M	J	J	A	S	O	N	D
1920-1985	579,446	9.02%	7.96%	8.52%	7.64%	8.61%	7.71%	8.99%	8.07%	8.38%	08.89%	08.06%	08.16%

### 1. Natural Births 1920-1985

#### 1.1 Distribution of $\sigma \text{ } \text{D}$ with an orb of $\pm 6.0^\circ$

Years	Players	Nbs	p	♀	♀	☉	♂	♃	♅	♁	♄	♆	
0+	1,064	96,770	0.817	+00.59%	+01.24%	-01.05%	-00.19%	-01.16%	+00.24%			-00.11%	+00.44%
2+	647	96,770	0.8949	-00.31%	+01.19%	-01.53%	+00.31%	-00.83%	+00.46%	-00.18%	-00.23%	+01.09%	
4+	491	96,770	0.4223	-00.79%	+02.68%	-01.54%	-00.08%	-01.66%	+01.29%	-00.21%	-01.22%	+01.51%	
6+	374	96,770	0.3015	-01.34%	+04.34%	-00.95%	-00.85%	-01.40%	+01.17%	+00.50%	-01.57%	+00.11%	

Global  $\chi^2$  – Percentage of  $\sigma \text{ } \text{D}$  ♀ on the rise over years

#### 1.2 Distribution of $\sigma \text{ } \text{F}$ with an orb of $\pm 2.0^\circ$

Years	Players	Nbs	p	♀	☉	♂	♃	♅	♁	♄	♆
0+	638	55,488	0.8134	+00.86%	+01.48%	-02.13%	-00.34%	-00.30%	+00.26%	+00.19%	-00.01%
2+	400	55,488	0.3322	+00.89%	+04.62%	-03.44%	-00.36%	-00.95%	-00.29%	-00.52%	+00.06%
4+	288	55,488	0.6504	-00.12%	+04.22%	-02.80%	-00.22%	-00.95%	-00.54%	-00.77%	+01.20%
6+	219	55,488	0.0574	-00.52%	+07.92%	-03.13%	-00.10%	-04.00%	-01.31%	-01.08%	+02.24%

Global  $\chi^2$  – Percentage of  $\sigma \text{ } \text{F}$  ☉ and  $\sigma \text{ } \text{F}$  ♀ on the rise over years

#### 1.3 Distribution of $\sigma \text{ } \text{F}$ with an orb of $\pm 2.0^\circ$

Years	Players	Nbs	p	♀	☉	♂	♃	♅	♁	♄	♆
0+	545	47,072	0.4187	+00.85%	-02.86%	+02.91%	-00.03%	+00.01%	-00.90%	-00.87%	+00.90%
2+	335	47,072	0.2605	+01.38%	-02.15%	+04.21%	+00.01%	+00.23%	-02.80%	-01.09%	+00.22%
4+	236	47,072	0.3254	+00.71%	-02.02%	+05.45%	+00.25%	-00.80%	-02.36%	-01.73%	+00.51%
6+	179	47,072	0.2992	+00.29%	-03.34%	+06.90%	-00.27%	-01.73%	-01.72%	-00.96%	+00.84%

Global  $\chi^2$  - Percentage of  $\sigma \text{ } \text{F}$  ♂ on the rise over years

#### 1.4 Distribution of $\sigma \text{ } \text{C}$ with an orb of $\pm 2.0^\circ$

Years	Players	Nbs	p	♀	♀	♂	♃	♅	♁	♄	♆
0+	626	54,362	0.7179	+01.45%	-02.39%	-01.08%	+00.34%	+00.07%	+00.72%	-00.12%	+01.03%
2+	406	54,362	0.4735	+03.35%	-02.62%	-01.87%	+00.32%	-00.88%	+01.84%	-00.01%	-00.14%
4+	294	54,362	0.1751	+02.74%	-02.92%	-03.16%	+01.71%	-01.50%	+02.93%	-00.01%	+00.20%
6+	230	54,362	0.0883	+05.24%	-04.41%	-04.02%	+01.32%	-02.50%	+01.86%	+01.55%	+00.98%

Global  $\chi^2$  – Percentage of  $\sigma \text{ } \text{C}$  ♀ on the rise over years

## 2. Natural Births 1920-1985 (Players 6 years and over)

### 2.1 Players file shuffled 400 times and shifted within ± 120 days

Orb	Shift	Players	Shuffle	p	♀	☉	♂	♃	♄	♅	♆	♇
♀ ♂ -2°+2°	-120	179	77,957	0.0236	-00.02%	-03.57%	+06.15%	+00.28%	-02.39%	-01.53%	-00.74%	+01.82%
♀ ♂ -2°+2°	-090	179	78,470	0.0469	+00.05%	-03.37%	+05.49%	+00.28%	-01.90%	-01.58%	-00.73%	+01.76%
♀ ♂ -2°+2°	0	179	77,751	0.0501	-00.16%	-02.73%	+05.42%	+00.12%	-01.72%	-01.53%	-00.82%	+01.41%
♀ ♂ -2°+2°	+090	179	78,122	0.0234	+00.44%	-02.92%	+06.16%	-00.17%	-02.03%	-01.51%	-01.17%	+01.22%
♀ ♂ -2°+2°	+120	179	78,062	0.0177	+00.56%	-03.87%	+06.40%	-00.03%	-02.02%	-01.47%	-01.11%	+01.53%

$\chi^2$  ♂ - Maintained percentage for ♂ ♀ ♂

### 2.2 ♂ ♀ in decreasing orb

Orb	Players	Nbs	p	♀	☉	♂	♃	♄	♅	♆	♇
♀ ♂ -6°+6°	531	139,907	0.7248	-01.98%	+01.91%	+00.54%	+00.76%	-00.90%	+00.38%	+00.52%	-01.24%
♀ ♂ -4°+4°	349	93,575	0.2702	-01.89%	+00.56%	+02.11%	+00.94%	-00.27%	-00.88%	+00.94%	-01.50%
♀ ♂ -3°+3°	267	70,674	0.165	-00.86%	-00.45%	+03.03%		-01.92%	-00.94%	+00.91%	+00.24%
♀ ♂ -2°+2°	179	47,072	0.0096	+00.29%	-03.34%	+06.90%	-00.27%	-01.73%	-01.72%	-00.96%	+00.84%

$\chi^2$  ♂ - Percentage of ♂ ♀ ♂ in inverse progression of the chosen orb

### 2.3 Distribution of aspects ♀ ♂ with an orb of ±2.0°

Players	Nbs	p	♂	♁	♂	♁	*	♁	□	♁	△	♁	♁	♁	♁
373	86,817	0.0914	+02.39%	-00.07%	+02.05%	-02.11%	+01.56%	-00.29%	+02.50%	-01.28%	-00.32%	-00.48%	-01.60%	-01.40%	-00.92%

$\chi^2$  ♂ - Higher percentage for □ ♀ ♂ and ♂ ♀ ♂

## 3. Per period (Players 6 years and over)

### 3.1 Distribution of ♂ ♀ with an orb of ±2.0°

Period	Players	Grp	p	♀	☉	♂	♃	♄	♅	♆	♇	
1920-1959	71	48,761	0.0272	-03.33%	-02.02%	+08.33%			-04.46%	+03.08%	+00.88%	-02.47%
1960-1974	63	21,218	0.6265	-01.20%	+01.13%	+02.20%	-00.04%	+00.04%	-03.04%	-02.81%	+03.70%	
1975-1985	45	14,356	0.4175	+06.40%	-08.54%	+05.29%	-00.16%	-00.38%	-06.12%	-01.68%	+05.19%	
1920-1985	179	84,335	0.0087	-00.08%	-03.12%	+06.97%	-00.49%	-01.91%	-01.56%	-01.02%	+01.22%	

$\chi^2$  ♂ - Higher Percentage of ♂ ♀ ♂ for all of analyzed periods

## Annex 1

1.1 Distribution of  $\sigma \mathcal{D}$  with an orb of  $\pm 6.0^\circ$ 

Years	Players	♀	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
0+	1,064	123	132	107	118	105	121	117	118	123
2+	647	69	80	62	75	66	75	70	71	79
4+	491	50	68	47	55	46	61	53	49	62
6+	374	36	58	38	39	36	46	43	36	42

Period	Nbs	♀	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
1920-1985	96,770	10,620	10,810	10,747	10,913	10,672	10,767	10,640	10,838	10,763

1.2 Distribution of  $\sigma \mathcal{F}$  with an orb of  $\pm 2.0^\circ$ 

Years	Players	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
0+	638	137	224	53	48	44	45	46	41
2+	400	86	153	28	30	25	26	26	26
4+	288	59	109	22	22	18	18	18	22
6+	219	44	91	16	17	7	12	13	19

Period	Nbs	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
1920-1985	55,488	11,436	18,662	5,795	4,361	3,994	3,768	3,897	3,575

1.3 Distribution of  $\sigma \mathcal{F}$  with an orb of  $\pm 2.0^\circ$ 

Years	Players	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
0+	545	137	97	97	47	46	38	37	46
2+	335	86	62	64	29	29	17	22	26
4+	236	59	44	48	21	18	13	14	19
6+	179	44	31	39	15	12	11	12	15

Period	Nbs	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
1920-1985	47,072	11,436	9,727	7,010	4,074	3,967	3,703	3,606	3,549

1.4 Distribution of  $\sigma \mathcal{C}$  with an orb of  $\pm 2.0^\circ$ 

Years	Players	♀	♀	♂	ㄣ	ㄥ	≡	Ψ	♀
0+	626	224	97	62	51	46	50	44	52
2+	406	153	62	37	33	26	37	29	29
4+	294	109	44	23	28	17	30	21	22
6+	230	91	31	16	21	11	21	20	19

Period	Nbs	♀	♀	♂	ㄣ	ㄥ	≡	Ψ	♀
1920-1985	54,362	18,662	9,727	5,971	4,248	3,959	3,950	3,888	3,957

Annex 2

2.1 *Players* file shuffled 400 times and shifted within  $\pm 120$  days

Orb	Shift	Nbs	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	-120	77,957	19,178	16,284	12,195	6,315	7,087	5,986	5,797	5,115
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	-090	78,470	19,250	16,239	12,792	6,356	6,745	6,064	5,831	5,193
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	0	77,751	19,234	15,588	12,728	6,423	6,544	5,970	5,844	5,420
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	+090	78,122	18,861	15,815	12,213	6,683	6,821	5,983	6,152	5,594
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	+120	78,062	18,748	16,538	12,013	6,567	6,805	5,946	6,095	5,350

Years	Players	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
6+	179	44	31	39	15	12	11	12	15

2.2 ♂ ♀ in decreasing orb

Orb	Players	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
♀ ♂ -6 <sup>o</sup> +6 <sup>o</sup>	531	111	122	80	53	39	45	44	37
♀ ♂ -4 <sup>o</sup> +4 <sup>o</sup>	349	74	75	60	35	28	25	30	22
♀ ♂ -3 <sup>o</sup> +3 <sup>o</sup>	267	61	54	48	24	17	19	23	21
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	179	44	31	39	15	12	11	12	15

Orb	Nbs	♀	⊙	♂	ㄣ	ㄥ	≡	Ψ	♀
♀ ♂ -6 <sup>o</sup> +6 <sup>o</sup>	139,907	32,015	29,473	20,325	12,899	11,525	11,319	10,867	11,484
♀ ♂ -4 <sup>o</sup> +4 <sup>o</sup>	93,575	21,609	19,588	14,111	8,505	7,761	7,528	7,170	7,303
♀ ♂ -3 <sup>o</sup> +3 <sup>o</sup>	70,674	16,759	14,611	10,564	6,355	5,857	5,697	5,440	5,391
♀ ♂ -2 <sup>o</sup> +2 <sup>o</sup>	47,072	11,436	9,727	7,010	4,074	3,967	3,703	3,606	3,549

2.3 Distribution of aspects ♀ ♂ with an orb of  $\pm 2.0^o$

Players	♂	◇	⋈	∠	*	◇	□	◇	△	▣	⋈	◇	♂
373	39	49	49	40	47	29	38	28	23	16	7	6	2

Nbs	♂	◇	⋈	∠	*	◇	□	◇	△	▣	⋈	◇	♂
86,817	7,010	11,465	9,629	11,142	9,582	7,000	6,678	7,633	5,631	4,142	3,023	2,613	1,269

## Annex 3

3.1 Distribution of  $\sigma$  ♀ with an orb of  $\pm 2.0^\circ$ 

Period	Players	♀	⊙	♂	♃	♄	♅	♆	♇	♈
1920-1959	71	15	14	14	7	3	8	6	4	4
1960-1974	63	16	13	11	5	6	2	4	6	6
1975-1985	45	13	4	14	3	3	1	2	5	5
1920-1985	179	44	31	39	15	12	11	12	15	15

Period	Grp	♀	⊙	♂	♃	♄	♅	♆	♇	♈
1920-1959	48,761	11,925	10,603	5,554	4,810	4,237	3,992	3,689	3,951	3,951
1960-1974	21,218	5,644	4,137	3,237	1,693	2,012	1,317	1,943	1,235	1,235
1975-1985	14,356	3,229	2,502	3,707	981	1,012	1,197	878	850	850
1920-1985	84,335	20,798	17,242	12,498	7,484	7,261	6,506	6,510	6,036	6,036