

POPULATION AND ZODIAC RHYTHMS

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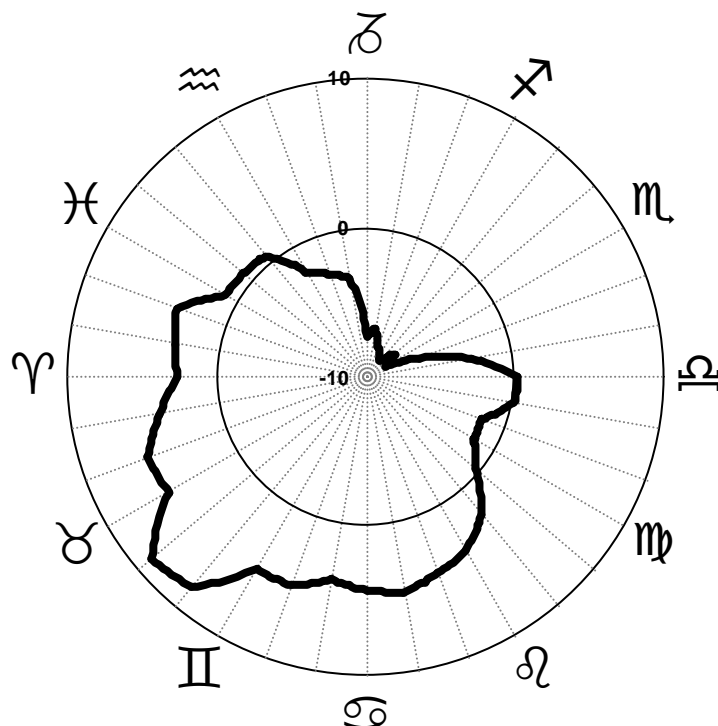
56 million French people, as estimated in 1990 from the General Population Census, have been analysed in a descriptive way according to the signs transited by the Sun, the Moon and each of the eight planets at birth. Very large demographic concentrations appeared in most of the distributions. Some have sociocultural origins, others are due to the retrogradation phenomenon. Beyond its general interest, this empirical study may mainly serve as a universal base for astrological research to avoid unexpected traps (e.g., demographic structures) or to build experimental statistical samples.

The Sun

French people born as the Sun was transiting from Pisces to Leo are more numerous than those in other signs. The deviation reaches 2 291 000 people (4% of the whole population). Taurus is the most represented sign, followed by Gemini, Cancer and Leo for which the frequencies are rather close. In a strange symmetrical way, Scorpio is the least represented sign, preceded by Sagittarius, Capricorn and Libra. The differential between Taurus and Scorpio is equal to 736 000 people, or 15% of the Taurus frequency.

Distribution of the French population according to the longitude of Sun at birth

zodiacal sign		deviation from the mean
♉	Taurus	+7.5 %
♊	Gemini	+4.4 %
♋	Cancer	+4.2 %
♈	Aries	+4.1 %
♊	Pisces	+2.5 %
♌	Leo	+1.6 %
♈	Aquarius	-0.1 %
♍	Virgo	-1.2 %
♎	Libra	-2.9 %
♏	Capricorn	-4.4 %
♐	Sagittarius	-7.6 %
♏	Scorpio	-8.2 %

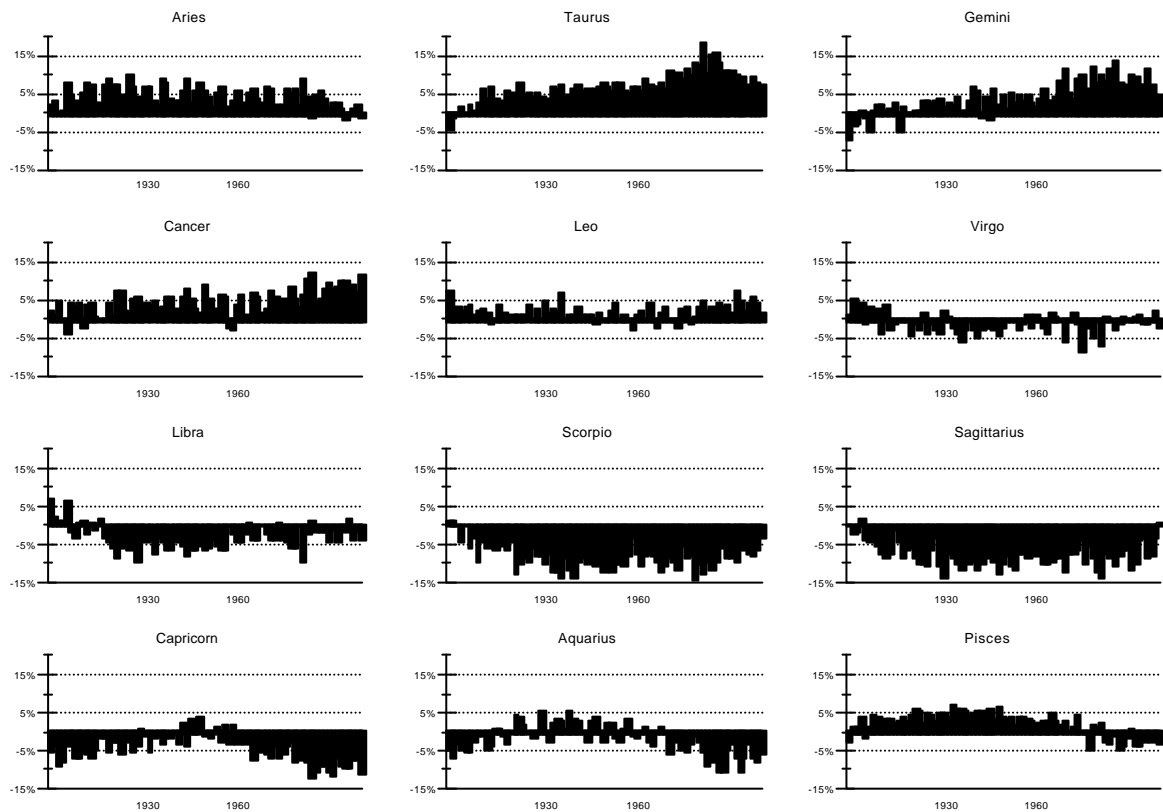


mean = 4 692 800

These large demographic differences appear to be linked to a seasonal rhythm of French fecundity. However, the census only provides a snapshot of the population at a precise moment and can not do more than reflect the fecundity. The population used in this study is made up of survivors. Actually, the census is not suitable enough for firmly establishing the reality of the seasonal rhythm of births.

Nevertheless, a trend in fecundity variation during the 20th century¹ can be observed as the following graphs illustrate.

Evolution of the deviation from the mean for each solar sign in the French population



NB : Statistics concerning people born before 1915 (i.e., people over 75 at the census time) must be used with care as they represent a very small part of the whole sample (6.8%).

Whatever the year of birth, Taurus is always represented more frequently than the other signs. Nevertheless, births in Aries and Pisces during the first half of the century are as numerous as those in Taurus. In the entire population born after 1960, Taurus, Gemini and Cancer are the most frequent signs. These divergences are probably due to two different behaviours. The first behaviour relates to the appeal of summer, especially the summer holidays, which may lead to some conceptions in August and deliveries in April. The second behaviour relates to those parents who were able to choose the moment for their child to be born and who preferred the cold winter days to be over.

Cancer is the most represented sign among the people born after the end of the seventies, with a corresponding decrease in the frequency of Taurus. The prevalence of Cancer births may be partly due to the legalization of birth control methods and to work legislation that permits women to associate maternity leaves and paid holidays during the Summer.

The Moon

French people born with the Moon in Leo are the most frequent and those born with the Moon in Gemini are the least frequent. Because the deviation between these two extremes is very small (i.e., 29 810 people, or 0.05% of the whole sample), the distribution of the population according to the Moon sign at birth can be considered as statistically uniform.

Distribution of the French population according to the Moon sign at birth

¹Fecundity was very perturbed during the first and second world wars. Therefore, people born in 1915-1920 or 1939-1946 were removed from the graphs.

	♈	♉	♊	♋	♌	♍
percentage of the sign in the whole sample	8.33 %	8.31 %	8.32 %	8.36 %	8.36 %	8.31 %
deviation from the mean	-0.05 %	-0.22 %	-0.16 %	+0.32 %	+0.28 %	-0.32 %
	♎	♏	♐	♑	♒	♓
percentage of the sign in the whole sample	8.34 %	8.33 %	8.32 %	8.35 %	8.34 %	8.34 %
deviation from the mean	+0.06 %	-0.09 %	-0.21 %	+0.21 %	+0.04 %	+0.13 %

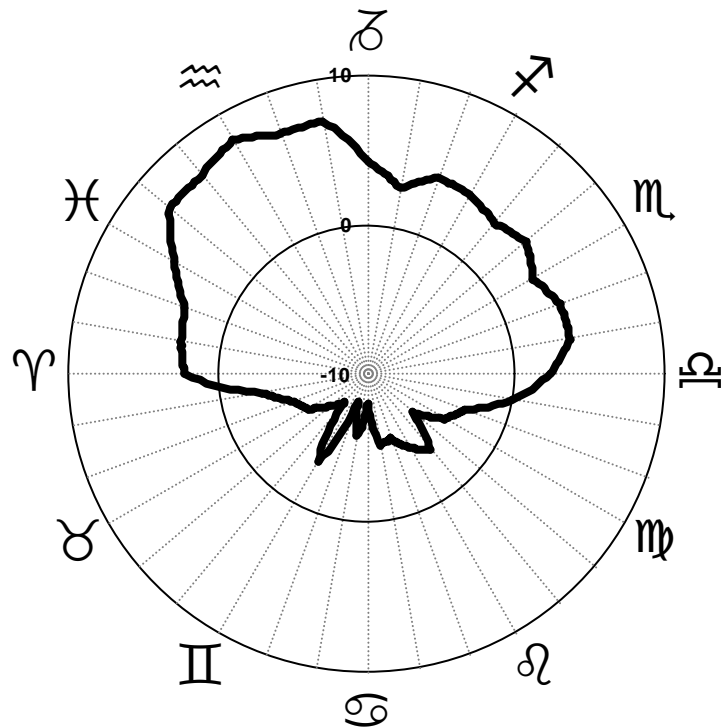
Mercury

French people born as Mercury was transiting from Libra to Pisces are more frequent than those born with Mercury in other signs. The deviation is 2 563 000 people, or 4.6% of the whole population. Aquarius is the most represented sign. Capricorn is a close second. Surprisingly, Taurus is the least represented sign, with Cancer and Gemini close behind it. The differential between Aquarius and Taurus is worth 662 800 people, or 13% of the Aquarius frequency.

Distribution of the French population according to the longitude of Mercury at birth

zodiacal sign	deviation from the mean
♒	+7.6 %
♑	+6.2 %
♐	+3.6 %
♏	+3.5 %
♎	+3.3 %
♍	+3.2 %
♈	-1.8 %
♏	-2.4 %
♌	-4.6 %
♊	-5.7 %
♋	-6.2 %
♉	-6.6 %

mean = 4 692 800



We saw earlier that Taurus is the most represented Sun sign. Because Mercury is always close to the Sun, we could have expected that the most frequent position for Mercury would be Taurus, Aries or Gemini. But it is not.

This result is mainly due to the retrogradation phenomenon. Because of this apparent movement, Mercury, and all the other planets, appears sometimes to reduce speed, then reverse its position on a precise arc. Consequently, people born when Mercury was transiting this arc are more numerous.

Now, Mercury's revolution varies according to the sign the Sun is transiting. For instance, the mean duration of a Mercury « loop² » during the 20th century was 57 days when the Sun was in Aquarius and 55 days when the Sun was in Leo. We can deduce, therefore, from this phenomenon alone that people born as Mercury was transiting Aquarius would be more frequent than those born as Mercury was transiting Leo.

²That is, when Mercury is transiting a precise arc forward, backward and forward again.

Moreover, when the Sun is in Capricorn, Aquarius, Pisces, Aries or Taurus, Mercury is more often transiting the sign preceding the Sun sign than the sign following the Sun sign. The reverse situation applies when the Sun is in Cancer, Leo, Virgo, Libra or Scorpio.

Together with the seasonal trend in natal Sun signs discussed previously, these two characteristics generate a surplus of births when Mercury is transiting the Winter signs. People born with the Sun in Taurus are the most numerous in the French population as well as those who have Mercury in Aquarius. These two groups are different, of course.

Distribution of the French population according to the natal signs of the Sun and Mercury

	♈ 8.6 100 8.6	♉ 8.7 100 8.7	♊ 9.0 100 9.0	♋ 8.7 100 8.7	♌ 8.7 100 8.7	♍ 8.5 100 8.5	♎ 8.2 100 8.2
♉ 100 8.2 8.2	♈♉ 14.8 14.1 1.2	♉♉ 49.6 46.7 4.1	♊♉ 35.6 32.5 2.9				
♊ 100 7.8 7.8		♉♊ 17.3 15.5 1.3	♊♊ 54.0 46.9 4.2	♋♊ 28.8 25.7 2.2			
♋ 100 7.9 7.9			♊♋ 23.5 20.6 1.8	♋♋ 53.4 48.2 4.2	♌♋ 23.1 20.9 1.8		
♌ 100 7.8 7.8				♋♌ 29.0 26.0 2.3	♌♌ 52.9 47.6 4.1	♍♌ 18.1 16.8 1.4	
♍ 100 7.9 7.9					♌♍ 34.6 31.5 2.7	♍♍ 51.4 48.2 4.1	♎♍ 14.1 13.5 1.1
♎ 100 8.2 8.2						♍♎ 36.3 35.1 3.0	♎♎ 49.8 49.2 4.1
♏ 100 8.6 8.6							♎♏ 35.7 37.2 3.1

	♏ 8.1 100 8.1	♐ 7.7 100 7.7	♑ 7.7 100 7.7	♒ 8.0 100 8.0	♓ 8.3 100 8.3	♈ 8.6 100 8.6	♉ 8.7 100 8.7
♉ 100 8.2 8.2	♏♉ 13.9 14.0 1.1						
♊ 100 8.6 8.6	♏♊ 50.0 53.2 4.3	♐♊ 14.4 16.1 1.2					
♋ 100 8.6 8.6	♏♋ 30.7 32.7 2.6	♐♋ 50.8 57.1 4.4	♑♋ 18.5 20.7 1.6				
♌ 100 8.6 8.6		♐♌ 23.7 26.7 2.0	♑♌ 52.4 58.6 4.5	♒♌ 23.9 25.8 2.1			
♍ 100 8.9 8.9			♑♍ 17.9 20.7 1.6	♒♍ 51.6 57.4 4.6	♓♍ 30.5 32.6 2.7		
♎ 100 8.9 8.9				♒♎ 15.0 16.8 1.3	♓♎ 49.4 52.9 4.4	♈♎ 35.6 37.1 3.2	
♏ 100 8.7 8.7					♓♏ 13.9 14.5 1.2	♈♏ 48.3 48.9 4.2	♉♏ 37.8 37.7 3.3

How to read this table? Each cell is composed by a precise Sun-Mercury pair in sign, an *italic* value, a **bold** value and an ***italic and bold*** value. For example, the Sun-Mercury pair in Taurus represents **4.2%** of the French population, **54.0%** of the French people born as Mercury was transiting Taurus and **46.9%** of the French people born as the Sun was transiting Taurus. In the same way, the Sun-Mercury pair in Aquarius represents **4.4%** of the population, **49.4%** of the people with Mercury in Aquarius and **52.9%** of the people with the Sun in Aquarius.

Those with Mercury in Taurus represent 28.8% of the «Sun in Gemini » and 17.3% of the «Sun in Aries » when the «Mercury in Aquarius » represent 35.6% of the «Sun in Pisces » and 15.0% of the « Sun in Capricorn ».

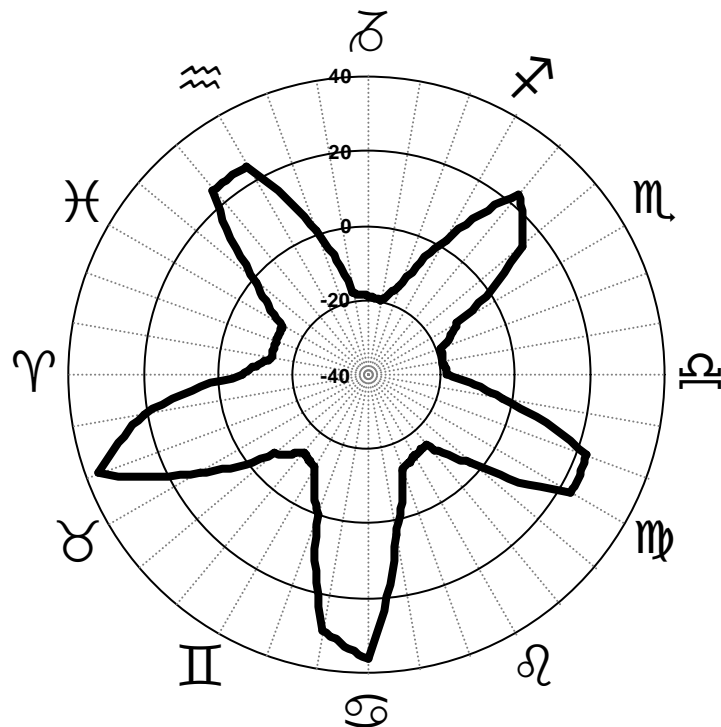
Venus

Very strong deviations exist in the French population according to the birth sign of Venus. Almost one person out of two was born as Venus was transiting 5 specific arcs representing less than 40% of the zodiac. The following graph is very evocative for astrologers.

Distribution of the French population according to the longitude of Venus at birth

zodiacal sign	deviation from the mean
♈	+17.3 %
♈	+16.0 %
♎	+13.9 %
♎	+8.7 %
♈	+8.3 %
♈	+5.7 %
♈	-2.8 %
♈	-11.0 %
♈	-11.5 %
♈	-11.8 %
♈	-13.6 %
♈	-19.1 %

mean = 4 692 800



In comparing extremes, note that approximately 2 140 000 people were born as Venus was transiting the 3rd decan of Aries and approximately 1 250 000 people were born as Venus was transiting the 3rd decan of Sagittarius. The highest value is almost two times the lowest value.

These deviations are due to the very specific « loops » of Venus. Venus loops occur every 19 months on average in a 15° arc separated from the previous loop by 210 degrees. During the 20th century, the Venus loops were concentrated within the same 5 specific arcs shown in the graph.

The duration of each loop is 3.5 months. Therefore, it is logical that a large number of people are contained in each of these 5 arcs. Moreover, because 60% of the French population were born after 1950, the arcs of Venus loops that took place after 1950 are even more frequently represented than the others.

The Sun, Mercury and Venus

Distribution of the French population according to the Sun, Mercury and Venus neighbourhood

Second sign preceding the Sun sign	♀					♀					♀				
First sign preceding the Sun sign	♀	♀	♀	♀	♀		♀					♀			
Zodiacal Sun sign	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	♈	
First sign following the Sun sign				♀					♀		♀	♀	♀	♀	
Second sign following the Sun sign				♀					♀					♀	
Frequencies	3.6%	6.9%	5.9%	7.6%	0.7%	4.7%	14.8%	11.9%	14.9%	4.8%	0.7%	7.5%	5.6%	6.9%	3.6%

How to read this table? Mercury and Venus are always close to the Sun. When the Sun is transiting a given sign (Taurus, for example), we can find Mercury either in the same sign (Taurus), in the previous sign (Aries), or in the following sign (Gemini). The same is true for Venus except that it can also be found in the second sign preceding or following the Sun sign (Pisces and Cancer, respectively). Only a few people (11.9%) were born with the Sun, Mercury and Venus transiting the same sign. But nearly 40% of the French population were born with the Sun and Mercury in a same sign and Venus in another sign (4.7%+14.8%+14.9%+4.8%).

Distribution of the French population according to the natal signs of the Sun, Mercury and Venus
Deviation from the mean (= 312 850)

♈	♀	♀	%	♈	♀	♀	%	♈	♀	♀	%	♈	♀	♀	%
♈	♈	♈	+188.8	♈	♈	♈	+50.8	♈	♈	♈	-22.7	♈	♈	♈	-48.2
♈	♈	♈	+177.0	♈	♈	♈	+48.5	♈	♈	♈	-23.1	♈	♈	♈	-48.3
♈	♈	♈	+159.0	♈	♈	♈	+47.4	♈	♈	♈	-23.4	♈	♈	♈	-48.3
♈	♈	♈	+150.6	♈	♈	♈	+46.0	♈	♈	♈	-25.3	♈	♈	♈	-48.5
♈	♈	♈	+146.9	♈	♈	♈	+44.4	♈	♈	♈	-25.4	♈	♈	♈	-50.5
♈	♈	♈	+145.8	♈	♈	♈	+42.8	♈	♈	♈	-26.5	♈	♈	♈	-51.8
♈	♈	♈	+144.8	♈	♈	♈	+41.5	♈	♈	♈	-27.4	♈	♈	♈	-52.0
♈	♈	♈	+140.9	♈	♈	♈	+32.5	♈	♈	♈	-28.2	♈	♈	♈	-52.2
♈	♈	♈	+134.7	♈	♈	♈	+28.9	♈	♈	♈	-28.7	♈	♈	♈	-53.8
♈	♈	♈	+130.6	♈	♈	♈	+28.7	♈	♈	♈	-29.2	♈	♈	♈	-54.0
♈	♈	♈	+123.3	♈	♈	♈	+25.9	♈	♈	♈	-29.3	♈	♈	♈	-56.3
♈	♈	♈	+122.4	♈	♈	♈	+25.4	♈	♈	♈	-29.5	♈	♈	♈	-57.1
♈	♈	♈	+122.1	♈	♈	♈	+24.4	♈	♈	♈	-30.2	♈	♈	♈	-58.2
♈	♈	♈	+121.7	♈	♈	♈	+20.4	♈	♈	♈	-30.6	♈	♈	♈	-59.2
♈	♈	♈	+120.4	♈	♈	♈	+15.8	♈	♈	♈	-30.7	♈	♈	♈	-59.3
♈	♈	♈	+118.7	♈	♈	♈	+14.6	♈	♈	♈	-30.8	♈	♈	♈	-59.8
♈	♈	♈	+117.1	♈	♈	♈	+13.7	♈	♈	♈	-31.5	♈	♈	♈	-62.2
♈	♈	♈	+116.5	♈	♈	♈	+11.0	♈	♈	♈	-31.8	♈	♈	♈	-62.5
♈	♈	♈	+111.2	♈	♈	♈	+9.8	♈	♈	♈	-32.3	♈	♈	♈	-65.0
♈	♈	♈	+105.6	♈	♈	♈	+9.5	♈	♈	♈	-32.5	♈	♈	♈	-66.4
♈	♈	♈	+104.5	♈	♈	♈	+7.7	♈	♈	♈	-34.0	♈	♈	♈	-69.4
♈	♈	♈	+103.6	♈	♈	♈	+3.8	♈	♈	♈	-34.3	♈	♈	♈	-77.5
♈	♈	♈	+92.5	♈	♈	♈	+1.7	♈	♈	♈	-34.5	♈	♈	♈	-77.6

♊	♊	♋	+89.1	♍	♈	♎	+0.0	♏	♏	♏	-34.9	♏	♏	♏	-79.1
♌	♌	♌	+87.7	♎	♈	♈	-0.5	♐	♏	♏	-35.0	♐	♏	♏	-81.3
♍	♍	♌	+87.4	♏	♏	♏	-2.3	♑	♏	♏	-35.4	♑	♏	♏	-81.6
♎	♎	♌	+86.3	♐	♏	♏	-2.6	♒	♏	♏	-35.6	♒	♏	♏	-82.0
♏	♏	♌	+83.5	♑	♏	♏	-2.9	♓	♏	♏	-36.5	♓	♏	♏	-83.9
♐	♐	♌	+78.6	♒	♏	♏	-4.4	♊	♏	♏	-38.8	♊	♏	♏	-86.8
♑	♑	♌	+77.8	♓	♏	♏	-5.0	♋	♏	♏	-38.9	♋	♏	♏	-87.9
♒	♒	♌	+76.8	♊	♏	♏	-6.0	♌	♏	♏	-39.4	♌	♏	♏	-88.0
♓	♓	♌	+75.5	♍	♏	♏	-6.1	♍	♏	♏	-40.2	♍	♏	♏	-88.9
♈	♊	♌	+74.7	♎	♏	♏	-8.1	♎	♏	♏	-40.9	♎	♏	♏	-90.4
♉	♋	♌	+74.3	♏	♏	♏	-8.5	♏	♏	♏	-41.0	♏	♏	♏	-92.4
♊	♈	♌	+70.8	♐	♏	♏	-9.0	♐	♏	♏	-41.2	♐	♏	♏	-94.4
♋	♉	♌	+70.8	♑	♏	♏	-10.5	♑	♏	♏	-41.4	♑	♏	♏	-94.5
♌	♊	♌	+67.4	♒	♏	♏	-14.5	♒	♏	♏	-42.2	♒	♏	♏	-95.5
♍	♋	♌	+61.5	♓	♏	♏	-16.7	♓	♏	♏	-42.5	♓	♏	♏	-95.9
♎	♌	♌	+59.8	♊	♏	♏	-18.1	♊	♏	♏	-43.1	♊	♏	♏	-96.1
♏	♍	♌	+57.4	♋	♏	♏	-18.6	♋	♏	♏	-43.3	♋	♏	♏	-96.2
♐	♎	♌	+57.1	♌	♏	♏	-19.0	♌	♏	♏	-43.6	♌	♏	♏	-96.3
♑	♏	♌	+55.8	♍	♏	♏	-19.1	♍	♏	♏	-44.8	♍	♏	♏	-97.3
♒	♐	♌	+55.6	♎	♏	♏	-20.6	♎	♏	♏	-45.8	♎	♏	♏	-97.6
♓	♑	♌	+54.5	♏	♏	♏	-20.7	♏	♏	♏	-45.8	♏	♏	♏	-98.6
♈	♒	♌	+51.7	♐	♏	♏	-22.6	♐	♏	♏	-47.0	♐	♏	♏	-99.4

How to read this table? Consider the grey cells as examples. People with the Sun in Cancer, Mercury in Gemini and Venus in Leo correspond precisely to the mean value (312 850 people). Half this value (-50.5%) corresponds to people with the Sun in Leo, Mercury in Cancer and Venus in Gemini. A little more than twice the mean value (+103.6%) corresponds to those with the Sun and Mercury in Gemini and Venus in Taurus.

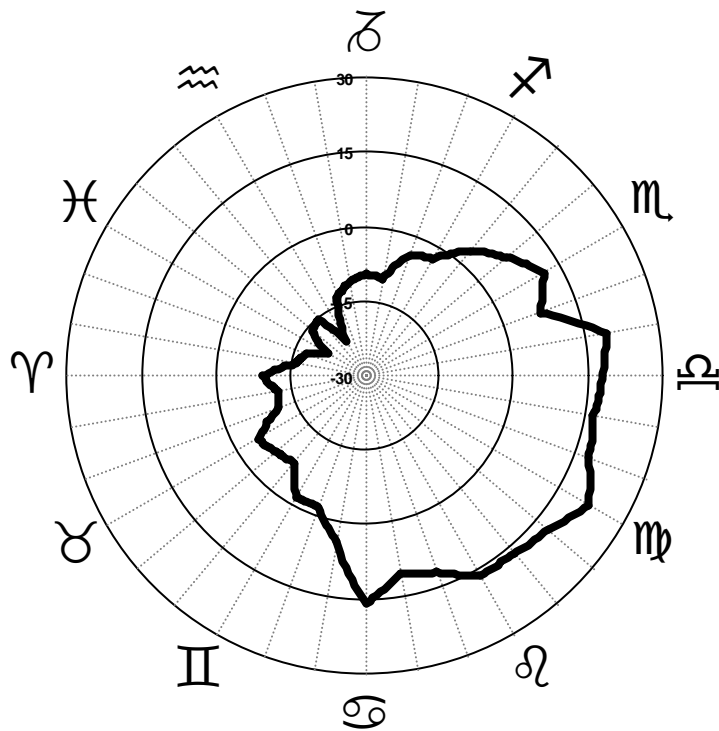
Mars

Half the French people were born as Mars was transiting a large arc of 5-signs delimited by Cancer and Scorpio.

Virgo is the most represented sign according to the Mars sign at birth (5 565 000 people). In a symmetrical way, Pisces is the least represented sign. The differential between Virgo and Pisces is 1 714 00 people, or 31% of the Virgo frequency.

Distribution of the French population according to the longitude of Mars at birth

zodiacal sign	deviation from the mean
♍	+18.6 %
♌	+16.7 %
♋	+14.6 %
♊	+12.5 %
♈	+7.1 %
♇	-0.1 %
♆	-5.6 %
♅	-6.2 %
♄	-10.9 %
♃	-11.0 %
♂	-17.6 %
♁	-17.9 %



mean = 4 692 800

These strong deviations are due to the «loops » of Mars. The Mars loops occur every 2 years on average, on a variable arc of 10 to 20 degrees lasting 5 to 7 months.

The loops of Mars are much more frequent and of greater duration in Cancer, Leo, Virgo, Libra and Scorpio. Between 1900 and 1990, loops in those signs were twice as numerous as the 12 loops that took place in Capricorn, Aquarius, Pisces, Aries and Taurus.

Venus and Mars

Combining the loop phenomena of Venus and Mars generates important disparities in the population.

Considering the pairs of signs in which Venus and Mars were at birth, Virgo is the most represented : 17 French people out of 1 000 were born as both planets were transiting Virgo. In contrast, 2 pairs (Venus in Virgo with Mars in Aquarius, Mars in Pisces with Venus in Leo) are relatively rare : only 1 person out of 1 000 corresponds to one of these two combinations.

Distribution of the French population according to the signs of Venus and Mars at birth
deviation from the mean (= 391 000)

	♀♈	♀♉	♀♊	♀♋	♀♌	♀♍	♀♎	♀♏	♀♐	♀♑	♀♒	♀♓
♂♈	+94.7%	+3.4%	+24.4%	-48.0%	-24.2%	-61.6%	-73.7%	-66.6%	-17.1%	-13.2%	+30.7%	+17.7%
♂♉	+60.9%	+74.2%	+11.2%	+24.0%	-29.2%	-29.7%	-74.6%	-56.3%	-59.7%	-36.1%	+54.4%	-10.2%
♂♊	+74.0%	+35.5%	+81.7%	+60.0%	+8.9%	+21.6%	-28.4%	-74.7%	-76.7%	-68.8%	-24.2%	-9.4%
♂♋	+66.7%	+55.7%	+63.0%	+98.3%	+29.7%	+65.0%	-18.8%	-35.7%	-66.2%	-50.1%	-41.0%	-15.6%
♂♌	-22.5%	+22.3%	+79.5%	+89.7%	+82.6%	+84.6%	+11.2%	+52.0%	+11.0%	-63.9%	-76.0%	-67.7%
♂♍	-37.0%	-46.4%	+21.4%	+61.8%	+41.4%	+143.3%	+45.5%	+34.8%	-8.3%	-7.0%	-10.7%	-18.8%
♂♎	-65.7%	-43.7%	-0.4%	+15.0%	+15.4%	+74.7%	+50.8%	+110.0%	+41.2%	-21.8%	+60.1%	-62.8%

♈	-8.5%	-35.3%	-57.2%	-46.0%	+5.9%	+46.5%	+5.5%	+70.0%	+45.3%	+59.3%	+22.9%	-24.6%
♉	+38.7%	-52.2%	-74.2%	-66.2%	-44.5%	+5.3%	+21.6%	+36.1%	+15.2%	+28.8%	+49.3%	-25.9%
♊	-31.5%	-27.7%	-49.6%	-61.8%	-61.6%	-32.3%	-23.4%	+45.1%	+32.9%	+13.6%	+41.7%	+19.7%
♋	+2.1%	-5.6%	-29.4%	-36.4%	-73.7%	-81.3%	-69.4%	+29.9%	-23.2%	+26.4%	+50.7%	-1.1%
♌	+41.5%	-18.8%	+10.3%	+1.7%	-80.4%	-78.1%	-76.9%	-35.5%	-35.1%	-3.8%	+33.9%	+29.8%

Considering now the 1296 possible pairs of decans which could be transited by Venus and Mars at birth (36 decans for Mars x 36 decans for Venus), we observe that half the French population is represented in only 290 precise pairs. In contrast, only a fifth of the population is represented in nearly half the pairs of decans. Finally, 88 pairs are never represented.

Jupiter

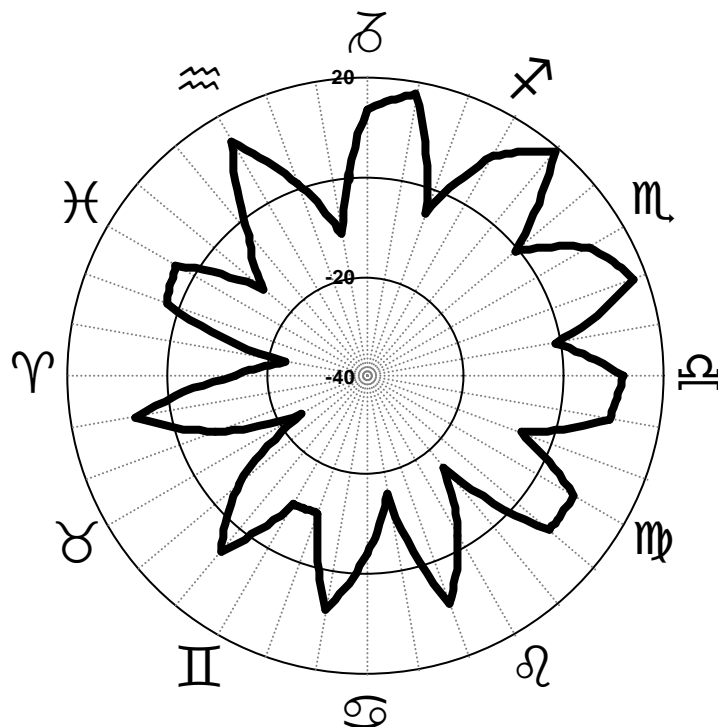
Population distribution according to the signs transited by Jupiter at birth shows strong deviations. The deviations become even more prominent when the date is distributed according to the decans transited by Jupiter. One decan out of two contains a high frequency.

For example, the frequency for the 3rd decan of Scorpio, the most represented decan, is 63% higher than the frequency of the 1st decan of Taurus, which is the least represented decan.

Distribution of the French population according to the longitude of Jupiter at birth

zodiacal sign	deviation from the mean
♈	+9.8 %
♉	+9.1 %
♊	+7.8 %
♋	+3.4 %
♌	+1.2 %
♍	-0.5 %
♎	-3.7 %
♏	-3.9 %
♐	-4.6 %
♑	-4.6 %
♒	-5.4 %
♓	-8.5 %

mean = 4 692 800



The « loops » of Jupiter occur every year on a 10° arc. Every 12 years, on average, a loop occurs again in the same general longitude but with a shift of 5 degrees. The demographic concentrations in specific Jupiter longitudes as shown in the data can therefore be derived by adding up of the various short generations born as Jupiter was looping through the same precise arc.

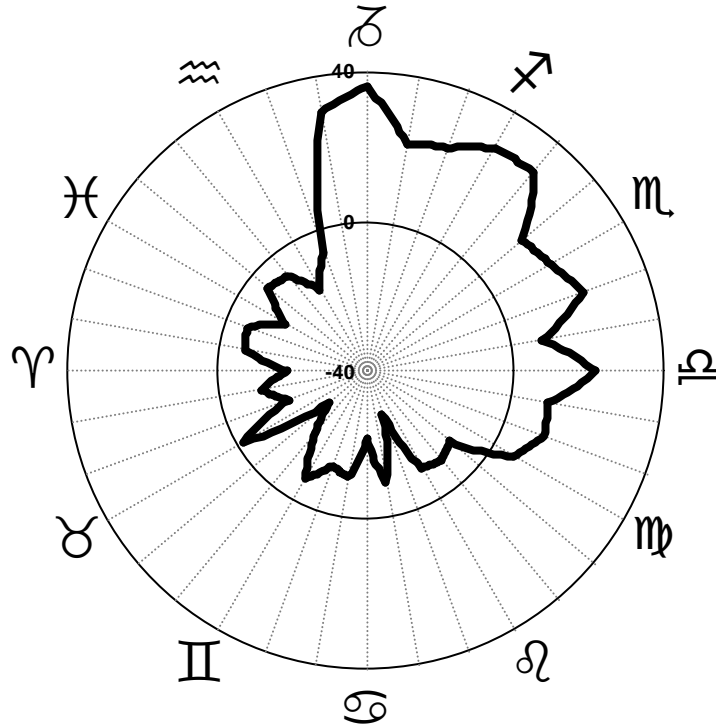
Saturn

The very strong deviations shown in the following graph are because of the cycles Saturn completed during the 20th century as well as the age structure of the population. The French people observed in this

study were all born between 1900 and 1990. During that time, Saturn transited each astrological sign 3 times, except Capricorn (4 times since Saturn was in Capricorn in 1900 and in 1989 as well). Saturn's orbital period is 29,46 years on average. Saturn transits a given sign, therefore, in somewhat less than 2.5 years.

Distribution of the French population according to the longitude of Saturn at birth

zodiacal sign	deviation from the mean
♈	+24.8 %
♉	+20.3 %
♊	+20.2 %
♋	+17.0 %
♌	+8.5 %
♍	-9.1 %
♎	-9.3 %
♏	-9.9 %
♐	-10.4 %
♑	-16.0 %
♒	-16.0 %
♓	-20.0 %



mean = 4 692 800

Among the 56 million French people questioned in the census of 1990, 60% were born after 1950. Saturn transited Aquarius, Pisces, Aries, Taurus, Gemini, Cancer and Leo twice between 1900 and 1950, but only once between 1950 and 1990. In contrast, Saturn transited Libra, Scorpio and Sagittarius once before 1950 and twice after.

In the French population, one person out of two was born as Saturn was transiting an arc delimited by the 20th degree of Libra and the 20th degree of Capricorn.

Uranus, Neptune and Pluto

French population distribution according to the longitudes of Uranus, Neptune and Pluto at birth

♈	1st decan	2nd decan	3rd decan	♉	1st decan	2nd decan	3rd decan	♊	1st decan	2nd decan	3rd decan
♈				♈				♈			
♉		-85.6 %	-26.3 %	♉			-93.2 %	♉	-9.8 %	+4.0 %	-7.8 %
♊	-6.2 %	+35.2 %	29.0 %	♊	-73.4 %	-54.5 %	-42.5 %	♊	-2.8 %	-11.8 %	-20.6 %
♋	+15.1 %	+52.4 %	33.6 %	♋	-52.8 %	-10.6 %	-2.1 %	♋	-2.6 %	+4.8 %	+25.6 %
♌	+27.2 %	+12.6 %	14.3 %	♌	+4.0 %	-1.1 %	-0.7 %	♌	+31.1 %	+23.6 %	+18.0 %
♍	-3.1 %	-14.8 %	-12.9 %	♍	+12.9 %	+55.8 %	+42.9 %	♍	+15.7 %	+17.1 %	+16.1 %
♎	-17.2 %	-53.3 %		♎	+48.1 %	+52.0 %	+41.0 %	♎	+19.2 %	+17.2 %	+14.9 %
				♏	+53.0 %	+24.4 %	+35.9 %	♏	+19.0 %	+21.1 %	+12.7 %
				♐	+29.4 %	-68.5 %		♐	+1.7 %	+2.5 %	+13.0 %
								♑	+16.8 %	+23.1 %	+32.0 %
								♒	+5.2 %	-61.1 %	-48.0 %

♊	-44.1 %	-56.8 %	-54.7 %
♋	-15.1 %	-15.8 %	-3.4 %

mean = 3 519 600

mean = 2 681 600

mean = 1 564 300

Pluto and Neptune were both transiting the first half of Gemini at the beginning of the 20th century while Uranus was around 12° Sagittarius. Some 90 years later, Neptune and Uranus were both transiting the first half of Capricorn while Pluto was in the middle of Scorpio. The apparent movement of these 3 planets is very slow : the period of Uranus is 84 years, the period of Neptune 165 years and the period of Pluto 248 years. The arc they traveled on the ecliptic between 1900 and 1990 was narrow : 150° for Pluto, 210° for Neptune, and a whole cycle for Uranus.

In the French population, 1 person out of 4 was born as Pluto was transiting Leo, 1 person out of 5 was born as Neptune was transiting Scorpio.

Crossed distribution of the French population according to the longitudes of Uranus, Neptune and Pluto at birth - Deviation from the mean (= 563 100)

♋		♌		♍											
		♎			♏			♐							
		1st dec.			2nd dec.			3rd dec.							
♌	2nd dec.	♌	3rd dec.	-95.1 %	-79.2 %	-93.2 %	♏	♏	♏	1st dec.	2nd dec.	3rd dec.			
♌	2nd dec.	♍	1st dec.		-81.0 %	-68.8 %				-92.6 %					
♌	3rd dec.	♍	1st dec.			-74.7			-61.6 %	-94.7 %			♊	♊	♊
♌	3rd dec.	♍	2nd dec.						-58.2 %	+2.8 %	-28.0 %		1st dec.	2nd dec.	3rd dec.
♌	3rd dec.	♍	3rd dec.	♋	♋	♋					-35.5 %		-4.2 %	-85.5 %	
♍	1st dec.	♍	3rd dec.	1st dec.	2nd dec.	3rd dec.					-92.1 %		-55.5 %	-53.6 %	
♍	1st dec.	♎	1st dec.	-43.4 %									-85.0 %	-40.9 %	-6.3 %
♍	1st dec.	♎	2nd dec.	+55.9 %	-25.0 %		♏	♏	♏						-68.0 %
♍	2nd dec.	♎	2nd dec.	-76.7 %	-3.6 %	-56.7 %	1st dec.	2nd dec.	3rd dec.						
♍	2nd dec.	♎	3rd dec.		-37.7 %	+124.9 %				+59.3 %	-80.6 %		♏	♏	♏
♍	2nd dec.	♏	1st dec.							-8.7 %	+24.8 %		1st dec.	2nd dec.	3rd dec.
♍	3rd dec.	♏	1st dec.							+31.2 %	+41.6 %			-93.6 %	
♍	3rd dec.	♏	2nd dec.							-86.6 %	+14.6 %		+149.2 %	-14.1 %	
♍	3rd dec.	♏	3rd dec.	♌	♌	♌							-85.5 %	-50.6 %	
♎	1st dec.	♏	2nd dec.	1st dec.	2nd dec.	3rd dec.								-91.9 %	
♎	1st dec.	♏	3rd dec.	-13.3 %										+1.7 %	+120.4 %
♎	1st dec.	♐	1st dec.	+83.8 %	+18.7 %		♍	♍	♍						
♎	2nd dec.	♐	1st dec.		+32.8 %	+2.5 %	1st dec.	2nd dec.	3rd dec.						
♎	2nd dec.	♐	2nd dec.		-60.3 %	+146.3 %				+252.8 %	-47.6 %				
♎	2nd dec.	♐	3rd dec.							-88.6 %	-85.3 %		♎	♎	♎
♎	3rd dec.	♐	2nd dec.								-49.5 %		1st dec.	2nd dec.	3rd dec.
♎	3rd dec.	♐	3rd dec.							+125.7 %	+208.9 %			+19.9 %	
♎	3rd dec.	♑	1st dec.	♏	♏	♏					-81.0 %			+11.2 %	
♏	1st dec.	♑	1st dec.	1st dec.	2nd dec.	3rd dec.								-9.8 %	+225.2 %
♏	1st dec.	♑	2nd dec.	-43.0 %											+62.8 %
♏	2nd dec.	♑	2nd dec.	+174.1 %	+128.0 %	-98.4 %	♏	♏	♏						
♏	2nd dec.	♑	3rd dec.		-2.5 %	+2.5 %	1st dec.	2nd dec.	3rd dec.						
♏	3rd dec.	♑	3rd dec.							+147.5 %	-91.1 %		♑	♑	♑

♏	3rd dec.	♄	1st dec.				-16.8 %	+59.8 %		1st dec.	2nd dec.	3rd dec.
♏	1st dec.	♄	1st dec.					+67.5 %	+193.4 %	-75.2 %		
♏	1st dec.	♄	2nd dec.						-80.3 %	0.0 %		
♏	2nd dec.	♄	2nd dec.	♄	♄	♄				+57.6 %	+176.0 %	-80.4 %
♏	2nd dec.	♄	3rd dec.	1st dec.	2nd dec.	3rd dec.					-91.2 %	-29.6 %
♏	3rd dec.	♄	1st dec.				-86.6 %					-80.6 %
♏	3rd dec.	♄	2nd dec.									+104.5 %
♏	3rd dec.	♄	3rd dec.	+198.8 %	-91.7 %							
♏	1st dec.	♄	1st dec.		+144.9 %	+116.4 %		♄	♄	♄		
♏	1st dec.	♄	3rd dec.	-79.4 %	-64.5 %					1st dec.	2nd dec.	3rd dec.
♏	2nd dec.	♄	1st dec.				-13.0 %			-45.6 %		
♏	2nd dec.	♄	2nd dec.							+50.2 %		

How to read this table? Consider the grey cells as examples. People with Pluto in the 1st decan of Libra, Neptune in the 2nd decan of Sagittarius, and Uranus in the 1st decan of Scorpio correspond precisely to the mean value (563 100 people). Half this value (-50.6%) corresponds to people with Pluto in the 3rd decan of Cancer, Neptune in the 3rd decan of Virgo, and Uranus in the 2nd decan of Taurus. A little less than 3 times the mean value (+198.8%) corresponds to people with Pluto in the 3rd decan of Libra, Neptune in the 3rd decan of Sagittarius and Uranus in the 1st decan of Sagittarius.

A demographic outline that must be taken into account

A census is a demographic « snapshot ». It shows that a population, observed as a whole, presents various disparities according to the signs transited by the Sun and by the planets at birth. Only the Moon position generates no significant deviations.

The observed disparities are due to seasonal rhythms of fecundity, to the retrogradation phenomenon, and to the planets' orbital periods.

The seasonal fecundity rhythm varies widely according to the birthplace latitude, as we can see by examining some world birthrate statistics for the year 1993. In Sweden (Stockholm, 59°20 north), where winter is severe, Aries babies are more frequent (+14% in comparison with the mean). In contrast, in Spain (Madrid, 40°25 north), where the seasonal change is not as pronounced, birthrates are uniform year round. In the southern hemisphere, this trend is reversed. For example, in Chile (Santiago, 33°30 south), Virgo babies are the most frequent (+7% in comparison with the mean). These birthrate variations, however, are not only due to climatic conditions. Currently in France (Paris, 48°52 north), Cancer babies are the most frequent (+7% in comparison with the mean). It may be possible that this new French behaviour is the result of recent birth control legislation.

The disparities linked to the retrogradation phases and to the planets' orbital periods are universal. They apply not only to the French population but to all populations, no matter the location of birth. These findings have direct implications for astrological research. To avoid statistical interferences, it is essential these patterns and findings should be taken into account when studying a population and whenever a control group or a random sample is constituted. Age structures must also be considered carefully.

Appendix

French population census

A general population census was realized in France during March and April 1990 (decree 89-274, 26/04/1989)

The population is constituted by all the people who were living in France, whatever their nationality. In particular, neither French people living abroad nor foreigners passing through France were questioned.

The total population of the European area of France was estimated to 56 615 155 people on the 5th of March 1990. This data is used in this study to identify demographic groups according to the zodiacal longitude of the Sun, the Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune and Pluto at birth. The longitudes have been ranked in 12 astrological signs or 36 decans (one tenth of a sign).

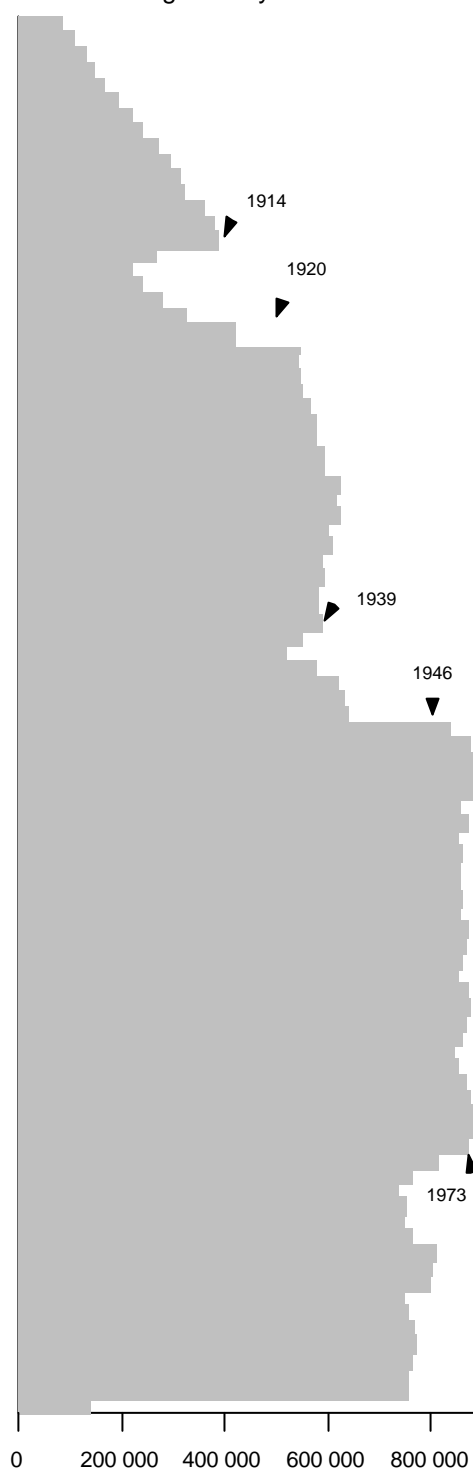
♈	Aries	♌	Leo	♐	Sagittarius
♉	Taurus	♍	Virgo	♑	Capricorn
♊	Gemini	♎	Libra	♒	Aquarius
♋	Cancer	♏	Scorpio	♓	Pisces

In this study, the French population was limited and corrected as follows:

- as they represent a rather scattered group, people born before 1900 are removed from the study field ;
- people born on the 1st of January are distinctly more numerous than people born on other days. This particularity is due to immigration because foreigners settling in France sometimes ignore their day of birth and are therefore recorded as born on the first day of the year. In this study, for each year, the frequencies of people born on the 1st of January of each year have been replaced by a mean value calculated from the 31/12 and 2/01 frequencies.

This limitation and this correction generate a slight error of 0.5% : the study population reaches 56 313 173 people.

Breakdown of the french population according to the year of birth



Insee - Population census - 1990