

Food: **Hays**

Notes: **Average Nitrates in forage: distribution from 2019 to 2022***

Parameter: **Nitrates (NO₃)**

Expressed values: **On the substance in ppm (mg/kg)**

Years (Number of samples)	Mean	Standard Deviation (+/-)	Median	Range (68% of samples)	
				Mean - SD	Mean + SD
All hays 2019 (n° 380)	1609	1833	892	-224	3442
All hays 2020 (n° 559)	1486	1937	750	-451	3423
All hays 2021 (n° 801)	1527	1891	832	-364	3418
All hays only of June-September 2022 (n° 323)	2103	2332	1300	-229	4435
Wheat 2019 (n° 42)	1765	1596	1513	169	3362
Wheat 2020 (n° 40)	1440	1615	800	-175	3055
Wheat 2021 (n° 79)	1527	1663	800	-136	3190
Wheat only of June-September 2022 (n° 37)	2145	2162	1400	-18	4307
Grass mix 2019 (n° 188)	1481	1999	750	-517	3480
Grass mix 2020 (n° 334)	1040	1450	525	-411	2490
Grass mix 2021 (n° 372)	999	1455	500	-456	2454
Grass only of June-September 2022 (n° 147)	1817	2585	875	-768	4402
Alfalfa 2019 (n° 118)	1756	1498	1188	258	3254
Alfalfa 2020 (n° 156)	2111	1779	1475	332	3890
Alfalfa 2021 (n° 169)	2573	2121	1825	452	4695
Alfalfa only of June-September 2022 (n° 139)	2295	1817	1788	478	4112
Panic Hay 2016-2022 (n° 26)	4971	4585	3938	386	9556

* Year means the delivery period in the Laboratory from June to May of the following year; for the Year 2022 the period is limited until September.

The Median is inserted in the Table due to the presence of high variability of nitrates: the greater frequency of average datum falls more on the Median than on the Mean, the trends are however similar.

Panic Hay is not statistically well represented but it is indicative of the high presence of Nitrates.