

## Liste des valeurs mesurées sur les céréales panifiables R11 Mesures NIR des échantillons des producteurs

**Protéine:** Indique la valeur en matière azotée (= teneur en protéines). Une teneur en protéines élevée a une influence positive sur la qualité boulangère et le résultat de la cuisson. Les teneurs en protéines varient entre 8.5% et 19.0%. La teneur en protéines est fortement influencée par la variété (selon la variété, la différence de teneur en protéines peut aller jusqu'à 2.3%).

**Gluten humide:** il est en forte corrélation avec la teneur en protéines ( $r = 0.94$ ). La teneur en gluten humide oscille entre 13.0% et 45.0%. Etant donné que la teneur en gluten humide dépend de la teneur en protéines, la teneur en gluten humide présente également de grandes différences (8.2%), liées aux spécificités de la variété.

Interprétation de la teneur en protéines:

< 12.5% = basse  
12.5% à 14.0% = moyenne  
> 14.0% = élevée

Interprétation de la teneur en gluten humide

< 28.0% = basse  
28.0% à 30.0% = moyenne  
> 30.0% = élevée

<b>No Safety-Pack.</b> (dans l'ordre croissant)	<b>Protéines [ % ]</b>	<b>Gluten humide [ % ]</b>
0124986	13.9	34.1
0125015	12.0	28.7
0125022	12.4	29.7
0125025	12.9	29.8
0125026	10.6	22.0
0125029	13.5	30.8
0125043	11.7	28.0
0124963	12.9	31.7
1339536	11.6	29.1
1362402	15.1	35.3
1362406	13.5	29.5
1362420	13.0	29.2
1362422	14.5	33.5
1362428	13.5	32.8
1362432	14.4	33.2
1362433	13.4	31.9
1362434	14.3	33.8
1362435	12.8	29.5
1362447	13.8	33.6
1362449	12.6	29.1
1362450	13.1	31.3
1362453	12.0	27.1
1362472	12.3	30.7
1362473	12.2	29.1
1362475	10.3	22.5
1385884	12.5	29.3
1385885	12.4	28.3
1385886	12.2	28.8
1385892	12.5	28.4
1385893	12.7	29.6
1385894	10.5	21.3
1385898	10.5	22.2
1385906	13.3	32.2
1385907	13.3	31.9
1385908	12.7	29.9

1385909	12.8	30.0
1385910	12.9	32.3
1385911	13.1	31.2
1385912	10.6	21.3
1385913	13.0	30.8
1385914	13.2	32.6
1385915	14.0	36.6
1400175	12.5	29.9
1400176	11.6	27.8
1400177	10.9	24.1
1400178	12.1	30.7
1400179	14.6	38.0
1400180	11.6	27.4
1400181	12.6	29.8
1400182	14.1	32.8
1400183	12.4	28.1
1400210	12.0	28.2
1571551	13.2	30.6
1571558	12.6	29.9
1571575	12.3	28.1
1571587	12.9	30.1
1571591	13.1	30.4
1571600	12.4	28.0
1571631	13.5	31.6
1571637	11.9	27.7
1571658	12.5	29.5
1573112	14.6	33.5
1573113	12.4	27.3
1573114	13.0	27.9
1573115	14.8	34.5
1573116	14.4	33.4
1576498	13.8	31.9
1576536	14.6	33.7
1576611	12.3	28.7
1576627	11.3	26.3
1586905	10.9	25.5
1586907	11.0	25.4
1586912	12.1	26.7

1586914	11.4	25.4
1586943	11.1	25.5
1586980	12.0	27.6
1586985	12.1	27.3
1586989	12.2	27.7
1587002	12.5	29.7
1587006	12.9	28.6
1587033	12.1	29.7
1587086	14.1	32.4
1587094	13.1	30.4
1587104	11.6	25.2
1587110	12.0	26.8
1587124	13.4	31.9
1587138	12.7	29.7
1587155	12.3	28.7
1587157	12.9	30.6
1587161	12.1	27.2
1590279	14.4	32.9
1590498	14.4	32.7
1593007	15.0	36.0
1593009	13.9	34.0
1630599	11.4	24.0
1630656	11.6	25.5
1698855	15.3	35.4
1698857	13.1	29.7
1698859	13.4	30.9
1698883	12.2	25.4
1698963	12.9	28.6
1698965	12.7	28.1
1698967	13.1	29.9
1698969	12.9	29.4
1698971	11.7	25.8
1699054	14.0	32.8
1710405	13.3	31.2
1710416	12.6	28.9
1710426	14.0	33.6
1710429	13.7	33.9
1710440	13.9	30.6

1710441	13.8	34.2
1710445	12.7	31.4
1710449	14.6	38.1
1710454	12.5	29.7
1710458	14.0	34.9
1710473	12.5	28.6
1710480	12.3	29.5
1710490	13.8	28.6
1731833	13.7	31.9
1731843	14.1	33.9
1731847	14.9	32.0
1731851	13.7	33.1
1731870	11.5	24.3
2006140	14.1	32.5
2014147	13.6	30.9
2014155	14.2	30.4
2014157	14.6	31.9
2014159	14.2	30.1
2014164	14.2	31.2
2014165	13.3	29.3
2014168	13.4	29.1
2014170	12.4	28.3
2014191	15.6	36.2
2015566	12.4	27.4
2020889	14.3	32.8
2020891	13.1	29.9
2021103	13.4	30.7
2021110	15.1	35.2
2064621	11.5	27.2
2064622	12.0	26.8
2064623	11.3	26.2
2064624	11.7	26.9
2064625	12.2	28.2
2064626	13.1	30.2
2064627	11.0	24.4
2064628	13.1	30.9
2064629	10.8	22.4
2064630	11.2	22.7

2064631	11.3	24.6
2064632	13.3	31.9
2064633	12.1	28.5
2064635	12.5	29.8
2064636	12.6	29.7
2064637	11.9	26.4
2064638	11.1	21.9
2064654	11.4	26.7
2064655	12.4	30.6
2069776	14.8	34.4
2069787	12.9	30.2
2073682	11.9	26.0
2073689	15.5	37.0
2074436	12.8	28.4
2074438	13.3	30.4
2074456	11.7	25.6
2074476	14.3	32.3
2077657	11.8	25.2
2077799	12.8	30.3
2078454	13.4	31.3
2078491	14.2	34.2
2078494	12.6	28.5
2078501	15.2	35.6
2078502	14.8	35.3
2078503	14.5	33.5
2078507	15.3	36.7
2078512	14.8	35.1
2078519	12.4	27.3
2078521	13.7	31.2
2078547	13.7	31.2
2078554	12.6	28.2
2078557	13.5	30.7
2078560	15.1	35.5
2078589	11.7	25.5
2078603	13.4	31.5
2078606	13.8	32.8
2078624	14.5	34.1
2078628	13.7	32.6

2078635	12.7	29.6
2078638	13.0	31.0
2078645	14.2	34.6
2078646	13.1	30.9
2078649	12.5	30.7
2078668	12.3	28.8
2078688	14.2	33.6
2078689	11.4	24.6
2078689	11.4	24.6
2078694	13.0	30.7
2078703	11.7	25.8
2078705	12.9	30.7
2078737	13.1	30.6
2078782	11.2	26.0
2078807	12.5	28.1
2078840	14.5	34.9
2078842	13.5	31.4
2078843	12.5	29.7
2078852	12.6	29.9
2078863	14.4	34.3
2078878	14.2	34.0
2078882	14.1	32.5
2078886	14.3	33.1
2078890	11.5	24.6
2078905	12.7	29.0
2078908	11.1	23.8
2078915	13.6	31.2
2078921	12.4	26.8
2078930	14.6	33.7
2078935	12.1	25.6
2078940	14.1	32.8
2078944	12.4	27.8
2078949	10.7	21.9
2078953	12.5	27.5
2080959	14.1	32.8
2080961	14.4	36.3
2080980	13.0	30.4
2081002	13.3	31.6

2081067	13.0	30.4
2081170	12.2	29.6
2081989	14.2	32.7
2082019	15.5	36.5
2082032	12.2	26.4
2082041	12.1	26.8
2082047	11.2	23.5
2082065	12.9	29.3
2082092	13.1	29.4
2082109	11.8	25.8
2082127	13.1	29.8
2082137	12.0	26.4
2082182	12.3	27.8
2082192	13.3	30.6
2082196	12.4	27.0
2082198	12.9	29.2
2100073	15.1	36.1
2100113	13.6	30.9
2100119	13.4	29.8
2100147	12.7	29.3
2100153	14.5	35.1
2100238	12.2	28.6
2100248	16.6	42.6
2100251	13.4	32.9
2100260	12.8	31.3
2100621	14.6	35.2
2100631	13.0	31.6
2100654	12.5	27.6
2100658	13.7	31.7
2100665	14.1	32.9
2100666	12.9	29.5
2100680	15.0	35.8
2100685	14.8	35.0
2100711	11.9	25.7
2100905	13.1	32.3
2100935	11.0	22.8
2100955	14.5	34.4
2100986	13.0	30.9

2115268	13.5	30.8
2115269	13.3	31.5
2115271	12.2	29.6
2115272	11.2	25.0
2115273	13.4	32.3
2115274	12.5	28.7
2115275	13.1	31.8
2115276	14.1	31.9
2115277	14.7	34.1
2115278	14.4	33.4
2115279	11.0	23.9
2115280	13.3	33.2
2115281	11.2	24.4
2115283	11.3	24.3
2115284	13.3	30.8
2115285	13.7	30.3
2115286	14.8	35.6
2115287	12.4	29.9
2115288	13.0	31.2
2115289	13.3	29.6
2115290	12.8	31.7
2115291	12.9	30.2
2115292	12.1	28.3
2115293	11.3	24.6
2115294	11.0	23.2
2115295	12.0	28.3
2115297	11.0	24.8
2115298	13.6	33.4
2115299	11.6	25.6
2115300	13.1	31.4
2115301	13.4	33.9
2115302	12.7	29.6
2115304	12.4	31.2
2115305	13.6	33.0
2115306	12.1	28.8
2115307	11.5	26.2
2115308	12.4	28.7
2115309	13.1	35.3

2115315	13.1	29.7
2115329	14.5	34.0
2115340	13.6	34.1
2115342	13.0	31.5
2115344	12.9	29.7
2115345	11.6	27.7
2115346	12.3	27.8
2115347	12.4	29.5
2115348	12.4	29.7
2115350	10.4	21.8
2115351	11.7	26.0
2115352	13.5	32.8
2115353	12.2	29.2
2115357	11.8	26.0
2115402	13.3	31.1
2115427	12.3	29.2
2115428	12.1	28.7
2115431	10.7	23.4
2115433	12.6	30.6
2129162	11.9	27.6
2129169	13.3	32.2
2129172	14.0	33.8
2129175	14.5	36.5
2129176	14.1	35.3
2129181	13.3	32.0
2129185	14.8	36.1
2129216	13.4	34.4
2129219	14.2	35.5
2129221	14.3	35.7
2136686	12.8	31.7
2136702	14.2	35.5
2136713	14.5	35.4
2136714	15.3	39.5
2136762	12.9	30.7
2136764	13.1	31.3
2136771	13.8	33.9
2136772	13.4	33.5
2155322	14.3	33.8

2155885	11.5	25.1
2155886	10.4	19.0
2155887	13.6	31.4
2155888	14.1	32.8
2155889	12.7	28.3
2155890	14.6	32.5
2155891	13.9	32.1
2155892	14.2	34.4
2155893	11.2	23.2
2155894	11.1	23.5
2155895	13.0	29.0
2155896	14.0	32.8
2155897	12.2	26.9
2155898	12.7	27.9
2155899	12.3	27.5
2155900	10.5	20.3
2155901	14.1	32.6
2164499	15.8	37.6
2164505	12.7	28.1
2164534	14.0	32.4
2164580	15.4	37.2
2164606	14.2	32.9
2164613	14.3	34.4
2164633	15.3	36.0
2164655	12.3	27.5
2164666	13.8	33.3
2164697	13.5	31.0
2164708	14.7	35.4
2164782	13.6	33.1
2168788	12.0	26.5
2168788	12.0	26.5
2168795	14.1	32.9
2168816	14.5	33.7
2168822	14.0	33.2
2168824	13.1	31.0
2168847	14.2	35.0
2168865	13.3	31.7
2168872	15.4	37.4

2168879	12.4	28.1
2168890	13.0	31.6
2168892	12.9	29.9
2168899	11.3	24.2
2168967	12.4	27.6
2168971	12.3	27.6
2168981	12.4	28.1
2168983	12.1	27.2
2169002	11.9	26.2
2173767	14.1	33.6
2173862	13.3	32.6
2173863	13.3	32.4
2174026	13.1	32.6
2174027	13.2	33.2
2177724	15.4	37.1
2177737	13.6	31.3
2177796	14.3	33.8
2177807	13.1	32.9
2177807	13.1	32.9
2177952	16.1	38.3
2177957	12.4	28.4
2177958	12.5	28.7
2180811	15.2	35.6
2180840	12.6	28.9
2180896	13.9	31.8
2180897	15.1	35.4
2180916	13.6	32.4
2180924	12.3	27.9
2180935	13.2	31.8
2180938	14.0	34.1
2180968	12.9	29.4
2181224	15.8	37.2
2181323	15.3	36.3
2183360	11.7	25.5
2183538	12.3	28.3
5115432	11.9	28.3
15106115	12.4	26.9
15106118	14.1	33.5

15106125	11.9	25.3
15106133	11.5	24.7
15106134	13.2	31.3
15106135	16.5	39.9
15106136	12.2	26.7
15106137	12.5	27.7
15106141	13.4	30.9
15106142	13.6	31.3
15106143	11.2	24.8
15106145	12.0	26.5
15106147	11.5	24.6
22285085	13.4	32.1
22285089	13.1	32.4
22285942	13.1	32.5
22286468	13.6	31.5
22396198	13.6	32.2
22396211	15.4	36.3
22396860	12.4	27.1
22397171	13.0	29.8
22397980	10.9	22.6
22398949	13.1	28.9
22398994	14.5	34.5
22419101	15.0	34.3
22419569	14.1	33.5
22420657	14.0	33.8
23442214	12.6	28.8
23442634	13.0	29.5
23442672	12.0	27.5
23442696	10.8	21.8
23442740	11.0	22.1
23443594	13.3	30.1
23443617	12.6	29.4
23443907	12.6	29.0
23444201	12.7	28.9
23444676	12.7	27.5
23444775	14.9	33.6
23445475	13.8	32.7
23445505	12.9	29.9

23445536	13.8	31.3
23499775	14.2	32.6
23499782	14.3	33.0
23499799	14.4	33.5
23499829	12.8	29.8
23500075	12.6	29.1
23500310	11.3	25.6
23500396	11.5	26.4
23500440	12.0	26.0
23500457	11.9	25.9
23500839	11.3	24.6
23500846	11.1	24.0
23501119	11.2	23.3
23501218	12.4	28.8
23501423	10.5	22.7
23501430	10.4	22.3
23501447	10.5	22.6
23501935	13.0	32.0
23502048	12.8	28.5
23838581	13.7	30.8
23839120	13.7	32.1
23839571	14.0	32.6
23839601	12.7	29.9
23840140	13.6	32.0
23840737	12.7	29.4
23847750	13.8	32.1
23847842	13.2	29.5
23854352	12.8	28.0
23857674	12.5	28.8
23857964	12.5	28.5
23858015	12.0	26.9
23873735	12.6	28.3
23874374	14.4	33.8
23875012	14.3	33.1
23875395	13.4	30.1
23875920	12.8	31.0
23875951	13.8	32.5
23876903	15.3	34.2

23877757	12.5	29.5
23877894	13.9	34.9
23877955	12.6	29.0
23882225	13.2	30.4
23882904	12.0	26.3
23882980	13.1	29.9
23883017	11.6	25.9
23883109	14.7	34.2
23883369	12.3	28.0
23883390	11.7	25.8
23894334	13.5	31.8
23997981	15.3	35.4
23998568	12.1	25.9
23998742	13.8	31.8
23998766	17.6	42.0
23999381	13.8	31.7
24000314	13.2	30.7
24000574	16.4	39.3
24000956	12.0	26.6
24001175	12.4	27.9
24145435	14.7	35.8
24145442	14.4	34.3
24145664	13.2	30.9
24145664	13.2	30.9
24145756	14.3	34.1
24145985	14.6	34.8
24145992	12.2	26.9
24146012	11.4	25.6
24146173	14.6	35.7
24146395	15.2	35.5
24146401	12.6	29.1
24146487	15.0	36.0
24146548	13.1	31.3
24146586	14.0	33.5
24146593	14.1	34.1
24146982	13.2	29.8
24147002	13.5	32.3
24147033	12.1	28.1

24147071	14.7	35.1
24147316	11.2	25.7
24183338	11.5	26.2
24186094	12.6	30.0
24186582	13.8	32.4
24186605	14.3	33.4
24186643	13.8	33.8
24201223	14.1	34.9
24201230	11.4	26.5
24201247	12.8	30.0
24201254	13.2	29.4
24201261	10.1	21.2
24201278	13.5	32.4
24201285	10.8	25.3
24233729	15.0	33.8
24234306	12.6	27.8
24234443	11.0	25.0
24234658	14.2	34.7
24235112	12.5	28.8
24235235	14.0	33.2
24235266	10.8	24.4
24235334	12.0	27.9
24235709	12.0	27.5
24236027	14.2	33.2
24236126	12.2	26.6
24236188	10.9	22.6
24236287	12.8	28.5
24236331	12.7	29.1
24236454	11.9	26.3
24236577	12.6	29.2
24236652	13.2	30.4
24236706	11.7	25.9
24236874	13.3	32.2
24236911	12.9	29.6
24237055	14.1	31.4
51081402	15.2	35.6
51081417	13.6	32.7
51081436	15.8	37.2

Daten ohne Gewähr