

**Explications:**

- BBCH 29: End of tillering
- BBCH 32: Node 2 at least 2 cm above node 1
- BBCH 37: Flag leaf just visible, still rolled
- BBCH 55: Middle of heading: half of inflorescence emerged

N-tester varieties correction values 2019 – Winter common wheat

Scale 1: N-tester varieties correction values 2019 – Winter common wheat

Variety	Wheat quality	Pannonic region BBCH 29-32	Pannonic region BBCH 37-55	Humid region BBCH 29-32	Humid region BBCH 37-55
Activus	High	-60	-30	-	-
Adesso	High	0	+20	-	-
Advokat	Medium	-	-	-20	-20
Albertus	High	-40	-40	-	-
Alessio	High	-20	-10	-	-
Alicantus	High	-20	-40	-	-
Angelus	High	+10	+20	+20	+20
Antonius	High	+20	+20	+20	+20
Arnold	High	0	0	-	-
Astardo	High	+20	+20	+20	+20
Augustus	Medium	-	-	-10	-20
Aurelius	High	-40	+10	-	-
Balaton	Medium	+10	-60	-	-
Bernstein	High	-10	+10	+10	+20
Beryll	Medium	-	-	0	-20
Capo	High	+50	+50	+50	+50
Chevalier	Medium	-	-	+10	0
Christoph	High	-40	+20	-	-

Variety	Wheat quality	Pannonic region BBCH 29-32	Pannonic region BBCH 37-55	Humid region BBCH 29-32	Humid region BBCH 37-55
Dominikus	Medium	-	-	+10	+10
Element	High	0	0	-	-
Emerino	Medium	+40	+40	-	-
Emilio	High	+20	+10	-	-
Energo	High	-10	-10	-	-
Enrico	Feeding / other wheat	+10	+20	-	-
Erla Kolben	High	+70	+80	+80	+70
Estevan	High	+40	+50	-	-
Evina	High	-40	-30	-	-
Fidelius	Medium	0	-80	-	-
Findus	Medium	-20	-20	-10	-30
Florenca	Feeding / other wheat	-	-	-40	-50
Fridolin	High	+20	+30	-	-
Frisky	Medium	-	-	+20	0
Fulvio	High	-20	-10	-	-
Gerald	Medium	-	-	-40	-30
Gideon	Medium	-	-	0	0
Henrik	Feeding / other wheat	-	-	-30	-40
Hewitt	Feeding / other wheat	-	-	0	-10
Josef	High	+40	+20	-	-
Kerubino	Medium	-	-	+20	0
KWS Epilog	Medium	-60	-40	-	-
Laurenzio	High	-10	-20	-	-
Lennox	High	-30	0	-	-

Variety	Wheat quality	Pannonic region BBCH 29-32	Pannonic region BBCH 37-55	Humid region BBCH 29-32	Humid region BBCH 37-55
Ludwig	High	-10	-10	-10	-10
Lukullus	High	-20	-10	-10	-10
Messino	High	-50	-40	-	-
Midas	High	-50	-50	-	-
Mirastar	High	-50	-20	-	-
Mulan	Medium	-20	-20	-20	-30
Nevio	Medium	-60	-20	-	-
Norenos	High	-30	0	-20	-10
Pankratz	Medium	-	-	0	+10
Pannonikus	High	-40	-20	-	-
Papageno	Feeding / other wheat	0	-10	0	-20
Pedro	Medium	-20	-10	-20	-20
Philipp	High	+30	0	-	-
Pireneo	High	0	+10	-	-
Rainer	Medium	+10	-20	+10	-20
RGT Sunnyboy	Medium	-50	-40	-	-
Richard	High	-	-	-10	-20
Roland	High	-10	-30	-	-
Sailor	Medium	-	-	+10	-10
Sax	Medium	-	-	+40	+20
Sherpa	Medium	-	-	+10	-10
Siegfried	Medium	-40	-30	-30	-20
Spontan	Medium	-	-	0	-10
Tiberius	Medium	-	-	-20	-20
Vulcanus	High	-20	-30	-	-

Variety	Wheat quality	Pannonic region BBCH 29-32	Pannonic region BBCH 37-55	Humid region BBCH 29-32	Humid region BBCH 37-55
Winnetou	Feeding / other wheat	-	-	0	0
WPB Calgary	Medium	-	-	-30	-50
Xerxes	Medium	-10	-20	-	-

## N-tester varieties correction values 2019 – Winter rye

Scale 2: N-tester varieties correction values 2019 – Winter rye

Variety	Rye type	BBCH 29-32	BBCH 37-55
Amilo	Population rye	+10	+30
Brasetto	Hybrid rye	-10	-20
Conduct	Population rye	+40	+40
Dańkowskie Turkus	Population rye	+40	+50
Dukato	Population rye	+30	+30
Elego	Population rye	0	+20
Elias	Population rye	+10	+30
KWS Berado	Hybrid rye	-10	-20
KWS Binntto	Hybrid rye	-20	+10
KWS Bono	Hybrid rye	-40	-30
KWS Eterno	Hybrid rye	-10	0
KWS Florano	Hybrid rye	-10	-10
KWS Gatano	Hybrid rye	-30	-40
KWS Jethro	Hybrid rye	-50	-50
KWS Livado	Hybrid rye	-10	-10
KWS Rhavo	Hybrid rye	-30	-40
KWS Tayo	Hybrid rye	-20	-40

Variety	Rye type	BBCH 29-32	BBCH 37-55
Schlägler	Population rye	+60	+80
SU Cossani	Hybrid rye	-20	0
SU Forsetti	Hybrid rye	+10	+30
SU Performer	Hybrid rye	+20	+30

## N-tester varieties correction values 2019 – Winter triticale

Scale 3: N-tester varieties correction values 2019 – Winter triticale

Variety	BBCH 29-32	BBCH 37-55
Agostino	+40	+20
Borowik	+30	+50
Calorius	+20	+10
Cappricia	-50	-60
Claudius	+30	+20
Cosinus	-30	-20
Kaulos	-50	-70
Mungis	-10	-20
Polego	+40	+40
Presto	+30	+40
RGT Basarac	+10	+60
Riparo	+20	-10
Triamant	+30	+30
Tribonus	0	-40
Tricanto	+60	+50
Trimaxus	+10	+40
Trimmer	-40	-50
Tulus	0	+30

## N-tester varieties correction values 2019 – Winter barley

Scale 4: N-tester varieties correction values 2019 – Winter barley

Variety	Two-/six-row	BBCH 29-32	BBCH 37-55
Adalina	Six-row	0	-10
Alora	Six-row	+10	+20
Ambrosia	Two-row	+10	+20
Amina	Two-row	+10	+20
Anemone	Two-row	+30	+30
Arcanda	Two-row	+30	+30
Azrah	Six-row	+10	-10
Belinda	Six-row	-40	-40
Caribic	Two-row	+30	+30
Carmina	Six-row	0	-10
Chiara	Six-row	-40	-30
Christelle	Six-row	-20	-10
Estoria	Two-row	+10	+30
Eufora	Two-row	0	+20
Finola	Six-row	-10	-30
Hannelore	Two-row	+20	+20
Hedy	Six-row	-20	+30
Henriette	Six-row	0	-10
Journey	Six-row	-40	-40
KWS Higgins	Six-row	-20	-50
KWS Meridian	Six-row	-40	-40
KWS Scala	Two-row	+20	+20
KWS Tonic	Six-row	-20	-10
Lentia	Two-row	+10	-10
Mercurioo	Six-row	+10	+10

Variety	Two-/six-row	BBCH 29-32	BBCH 37-55
Michaela	Six-row	-20	-20
Mizzi	Six-row	0	-10
Monroe	Two-row	-10	+10
Paradies	Six-row	-50	-50
Reni	Two-row	0	+40
Sandra	Two-row	+10	+20
Semper	Six-row	0	0
SU Jule	Six-row	+20	+10
SU Vireni	Two-row	-10	+10
Valentina	Two-row	0	+20
Valerie	Two-row	-50	-20
William	Six-row	0	0
Wootan	Six-row	0	0
Zita	Two-row	+10	-10

## N-tester varieties correction values 2019 – Winter durum wheat

Scale 5: N-tester varieties correction values 2019 – Winter durum wheat

Variety	BBCH 29-32	BBCH 37-55
Auradur	-20	0
Diadur	-40	-30
Lupidur	-20	-10
Sambadur	-20	-30
Tempodur	+40	+40
Wintergold	+10	0

## N-tester varieties correction values 2019 – Spring durum wheat (pannonic region)

Scale 6: N-tester varieties correction values 2019 – Spring durum wheat (pannonic region)

Variety	BBCH 29-32	BBCH 37-55
Colliodur	-30	-10
Doridur	-20	0
Durofinus	+10	-20
Duroflavus	-30	-40
Durofox	-30	-60
Duromax	-40	-60
Floradur	-60	-60
Malvadur	0	-30
Nicodur	-30	-20
Rosadur	-70	-70
Tamadur	-60	-60
Tessadur	-50	-40

## N-tester varieties correction values 2019 – Spring common wheat (pannonic region)

Scale 7: N-tester varieties correction values 2019 – Spring common wheat (pannonic region)

Variety	Wheat quality	BBCH 29-32	BBCH 37-55
KWS Solanus	High	-30	0
Lennox	High	+20	+30
Liskamm	High	+30	+20
Sensas	High	+30	+60
SW Kadrij	High	+80	+80