

University of Idaho 2023 PNW Spring Canola Variety Trial Summary including mean seed yield (lbs. per acre) and yield rank at Idaho and Washington sites, seed yield (lbs. per acre) and yield rank at individual sites, flower date (days after seeding), and plant canopy height at maturity (inches). Flower dates were recorded at Moscow and Genesee, and plant canopy heights were recorded at Moscow, Genesee, Craigmont, and Dayton.

Variety*	Yield**	Rank	Yield by Site														Flower Date	Plant Height
			Bonners Ferry, ID		Moscow, ID		Genesee, ID		Craigmont, ID		Davenport, WA		Dayton, WA		Hermiston, OR			
			Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank	Yield	Rank		
<i>----- lbs per acre -----</i>																	<i>- days -</i>	<i>- inches -</i>
Controls																		
Westar	2,110	33	2,559	29	1,751	35	2,059	34	1,612	36	2,558	31	2,121	33	1,255	28	47	49
Profit	2,044	34	2,378	32	1,889	33	1,848	35	1,825	31	2,503	33	1,819	34	1,260	27	46	53
CP930 RR	2,686	26	2,661	28	2,404	22	2,991	20	2,225	19	2,950	21	2,887	22	1,279	25	44	47
Goldrush	1,832	36	1,602	36	1,513	36	2,285	33	1,783	32	2,193	36	1,615	36	1,184	31	37	43
BASF Corporation																		
InVigor L233P (LL)	3,025	5	3,076	20	2,544	13	3,466	5	2,313	15	3,408	3	3,343	3	1,632	9	46	51
InVigor L340PC (LL)	3,023	7	3,362	9	2,528	14	3,519	4	2,482	5	2,790	25	3,454	2	1,969	2	47	51
InVigor L343PC (LL)	3,083	2	3,399	6	2,881	1	3,642	1	2,623	2	2,914	22	3,041	17	1,855	5	46	52
InVigor LR344PC (LL+TF)	2,788	21	3,041	22	2,241	26	3,078	16	2,025	26	3,287	8	3,058	15	1,261	26	50	52
InVigor L345PC (LL)	3,146	1	3,791	1	2,458	17	3,603	2	2,380	11	3,121	11	3,521	1	1,554	15	49	54
InVigor LR354PC (LL+TF)	3,024	6	3,756	2	2,444	20	3,058	17	2,300	17	3,383	5	3,201	9	1,596	11	50	54
Bayer CropScience																		
DKTFL21SC (TF+LL)	2,956	9	3,444	3	2,438	21	3,041	18	2,440	8	3,294	7	3,081	13	1,547	3	44	47
DK900 TF	2,932	12	3,364	8	2,492	16	3,290	7	2,312	16	3,063	16	3,069	14	1,721	8	46	48
DK902 TF	2,962	8	3,071	21	2,744	5	3,134	12	2,449	6	3,227	9	3,144	11	1,400	21	45	47
BrettYoung Seeds																		
BY 5125 CL	2,650	27	3,038	23	2,455	18	2,558	28	2,131	21	3,105	12	2,612	29	1,504	19	46	50
BY 6211 TF	2,783	22	3,082	19	2,686	8	3,105	15	2,077	23	2,864	23	2,885	23	-	-	46	50
CANTERRA SEEDS (Meridian Seeds, LLC)																		
CS2600 CR-TF	3,033	4	3,172	14	2,572	11	3,292	6	2,401	9	3,523	1	3,238	6	1,755	6	44	48
CS3000 TF	2,942	10	3,412	5	2,792	4	3,116	13	2,379	12	2,742	28	3,212	7	1,519	17	44	46
CROPLAN																		
CP9221 RR	2,939	11	3,187	13	2,799	3	3,186	10	2,539	4	2,762	27	3,163	10	1,957	3	43	45
CP9978 TF	2,880	16	3,309	10	2,507	15	2,966	22	2,247	18	3,202	10	3,048	16	1,735	7	46	50
CP7130 LL	2,899	14	3,289	11	2,659	10	2,932	24	2,448	7	3,040	17	3,023	18	1,464	20	47	52
CP7250 LL	2,770	23	3,021	25	2,455	18	3,154	11	2,114	22	3,074	15	2,804	25	1,515	18	47	49
Nuseed																		
NC155 TF	2,813	19	3,252	12	2,268	25	2,931	25	2,068	24	3,373	6	2,985	20	1,230	29	43	47
NC471 TF	2,688	25	3,141	15	2,545	12	2,451	31	2,373	13	2,978	19	2,642	28	1,571	14	45	51
NC527CR TF	2,883	15	2,870	27	2,319	24	3,537	3	2,388	10	2,970	20	3,211	8	1,619	10	45	48
Nutrien Ag Solutions																		
DG 280 CLC (CL)	2,801	20	2,993	26	2,703	6	3,111	14	2,162	20	2,817	24	3,019	19	1,287	24	48	53
DG 760 TM (TF)	2,736	24	3,027	24	2,673	9	2,931	25	1,961	29	3,104	13	2,718	26	1,585	13	45	49
DG 761 TM (TF)	2,613	28	3,139	16	2,227	27	2,940	23	1,742	34	2,775	26	2,854	24	-	-	48	52
DG 781 TCM (TF)	3,054	3	3,426	4	2,697	7	3,217	8	2,671	1	3,427	2	2,888	21	1,439	21	45	51
Photosyntech																		
NCC101S	2,905	13	3,138	17	2,202	28	3,202	9	2,593	3	3,012	18	3,283	5	1,950	4	42	45
NCC1825/8-S	2,845	17	3,365	7	2,805	2	2,987	21	2,356	14	2,219	34	3,336	4	2,085	1	43	45
Star Specialty Seed																		
StarFlex TF	2,834	18	3,121	18	2,330	23	3,025	19	2,043	25	3,392	4	3,091	12	1,594	12	46	50
University of Idaho Canola																		
Empire	2,242	32	2,219	33	2,152	30	2,370	32	1,981	28	2,527	32	2,201	32	1,387	23	45	47
16.SC.24.9	2,447	29	2,442	30	1,984	31	2,839	27	1,952	30	3,075	14	2,387	31	1,050	32	47	49
16.SC.104.2	2,337	30	2,396	31	2,161	29	2,530	30	1,772	33	2,696	29	2,467	30	1,022	33	47	47
University of Idaho Industrial Rapeseed																		
Gem (G2)	1,887	35	2,034	34	1,831	34	1,794	36	1,711	35	2,203	35	1,747	35	893	34	47	45
Industrious	2,273	31	1,770	35	1,962	32	2,555	29	2,018	27	2,687	30	2,644	27	1,195	30	41	43
Average	2,718		2,982		2,392		2,937		2,192		2,952		2,856		1,496		45	49
LSD (p = 0.05)	65		504		369		402		221		461		346		418		1	2
C.V. (%)	10.4		12.1		10.7		9.7		7.1		11.6		8.6		17.3		2.0	4.1
Seeding Date			April 26		April 27		May 1		May 3		April 28		April 28		April 6			

HARVEST DATES

--Hermiston: July 19, 2023
 --Moscow: August 18, 2023
 --Davenport: August 21, 2023
 --Bonners Ferry: August 25, 2023
 --Dayton: September 6, 2023
 --Genesee: September 6, 2023
 --Craigmont: September 7, 2023

* Herbicide Resistance Key: CL = Cleafield, G2 = Group 2 residual resistant, LL = LibertyLink, RR = Roundup Ready, TF = TruFlex Roundup Ready

EXCLUDE from NuStep due to high CV

** Mean yield includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.

University of Idaho 2023 PNW Spring Canola Trial Results including mean seed oil content (%) and rank across Idaho and Washington sites and mean oil content at individual sites. Seed oil content was estimated on a subsamples of seed from each plot using near infrared spectrophotometry (NIR).

Variety	Oil Content*		Oil Content by Site						
	Mean	Rank	Bonnars Ferry, ID	Moscow, ID	Genesee, ID	Craigmont, ID	Davenport, WA	Dayton, WA	Hermiston, OR
----- percent -----									
Controls									
Westar	42.2	29	42.8	42.5	41.3	43.9	42.5	40.3	33.4
Profit	44.5	5	44.6	46.0	43.8	46.2	43.5	43.1	33.7
CP930 RR	46.4	1	47.1	46.2	46.4	48.5	45.7	44.8	34.7
Goldrush	41.6	33	42.2	43.2	41.5	43.4	39.0	40.7	34.0
BASF Corporation									
InVigor L233P (LL)	43.3	20	45.3	44.5	42.6	44.6	41.5	41.0	32.9
InVigor L340PC (LL)	43.0	24	44.4	43.0	43.0	44.8	41.8	41.2	31.8
InVigor L343PC (LL)	43.7	16	45.1	45.2	43.1	45.0	41.0	42.6	35.3
InVigor LR344PC (LL+TF)	43.7	15	44.7	44.1	43.6	45.2	43.2	41.7	33.0
InVigor L345PC (LL)	43.1	23	44.7	43.0	42.6	44.9	41.7	41.8	32.3
InVigor LR354PC (LL+TF)	43.6	17	45.8	43.4	42.1	45.5	43.2	41.9	33.0
Bayer CropScience									
DKTFL21SC (TF+LL)	44.4	6	46.5	46.2	44.4	44.9	42.9	41.7	34.5
DK900 TF	43.3	19	45.4	43.4	41.9	44.1	43.4	41.9	33.7
DK902 TF	43.8	12	45.8	45.4	42.9	45.8	41.1	42.0	31.4
BrettYoung Seeds									
BY 5125 CL	44.6	4	45.8	45.6	42.9	45.6	44.1	43.7	34.7
BY 6211 TF	43.2	22	45.3	43.2	42.7	44.9	41.7	41.6	-
CANTERRA SEEDS (Meridian Seeds, LLC)									
CS2600 CR-TF	44.4	7	46.5	45.0	42.6	46.0	44.8	41.7	33.1
CS3000 TF	43.3	21	46.2	45.1	42.2	45.4	39.1	41.7	33.9
CROPLAN									
CP9221 RR	42.6	27	45.2	44.3	41.9	44.8	38.8	40.6	32.6
CP9978 TF	43.9	11	45.7	44.5	41.3	44.4	45.0	42.5	34.2
CP7130 LL	43.0	25	45.3	44.5	41.8	45.6	41.0	39.8	31.2
CP7250 LL	43.7	13	45.6	45.5	42.7	45.6	42.2	40.9	30.8
Nuseed									
NC155 TF	41.9	30	45.1	41.9	40.4	43.6	41.8	38.9	29.6
NC471 TF	44.2	9	46.3	44.3	43.9	46.7	41.5	42.4	32.9
NC527CR TF	44.4	8	45.8	45.4	44.9	46.5	41.8	42.0	34.0
Nutrien Ag Solutions									
DG 280 CLC (CL)	43.5	18	45.4	44.1	42.5	46.1	41.7	41.1	31.9
DG 760 TM (TF)	43.7	14	45.8	44.3	42.9	44.1	43.8	41.5	33.5
DG 761 TM (TF)	44.0	10	46.2	44.5	43.5	44.8	42.3	42.7	-
DG 781 TCM (TF)	44.7	2	46.3	46.1	44.3	45.7	43.7	42.5	34.0
Photosyntech									
NCC101S	40.8	34	42.1	42.5	41.0	42.7	38.0	38.5	29.9
NCC1825/8-S	39.8	36	42.5	39.5	40.0	41.7	37.5	37.7	32.3
Star Specialty Seed									
StarFlex TF	44.7	3	46.8	44.7	44.0	45.6	44.1	42.8	35.8
University of Idaho Canola									
Empire	40.5	35	42.0	40.8	38.6	43.1	39.8	39.0	33.2
16.SC.24.9	42.3	28	43.1	42.6	40.9	44.4	42.0	41.1	32.4
16.SC.104.2	41.9	31	43.0	42.3	41.0	44.6	40.2	40.0	31.0
University of Idaho Industrial Rapeseed									
Gem (G2)	42.7	26	43.4	43.3	42.2	44.9	41.2	41.1	32.6
Industrious	41.8	32	41.5	42.7	41.5	43.4	42.2	39.4	33.0
Average	43.2		44.9	44.0	42.5	44.9	41.9	41.3	33.0
LSD (p = 0.05)			1.3	1.8	2.0	1.4	2.8	1.5	2.1
C.V. (%)			2.1	3.0	3.4	2.3	4.7	2.5	4.6

* Mean oil content includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.

University of Idaho 2023 PNW Spring Canola Trial Results including mean seed protein content (%) and rank across Idaho and Washington sites and mean seed protein content at individual sites. Seed protein content was estimated on a subsamples of seed from each plot using near infrared spectrophotometry (NIR).

Variety	Seed Protein Content*		Seed Protein Content by Site						
	Mean	Rank	Bonnars Ferry, ID	Moscow, ID	Genesee, ID	Craigmont, ID	Davenport, WA	Dayton, WA	Hermiston, OR
----- percent -----									
Controls									
Westar	24.4	10	23.7	23.5	24.8	24.0	24.7	26.0	27.7
Profit	24.7	7	24.1	21.7	25.3	24.1	26.3	26.5	28.4
CP930 RR	24.0	20	23.1	22.9	24.6	23.2	24.2	26.2	28.9
Goldrush	24.4	12	24.8	22.5	25.2	22.8	26.0	25.1	28.4
BASF Corporation									
InVigor L233P (LL)	24.2	18	22.9	21.9	24.8	23.0	25.9	26.8	28.0
InVigor L340PC (LL)	23.8	24	22.9	23.0	23.5	22.9	24.5	26.4	28.6
InVigor L343PC (LL)	24.3	15	23.2	22.0	25.0	23.6	26.2	26.1	28.0
InVigor LR344PC (LL+TF)	24.1	19	23.5	22.9	24.0	23.2	24.7	26.4	28.6
InVigor L345PC (LL)	23.9	23	22.6	22.2	23.8	22.6	26.4	25.6	27.8
InVigor LR354PC (LL+TF)	23.6	27	21.9	22.0	25.3	22.4	24.4	25.8	27.3
Bayer CropScience									
DKTFL21SC (TF+LL)	24.2	17	23.9	21.4	24.0	22.8	25.8	27.4	29.3
DK900 TF	23.3	30	22.1	21.1	25.2	21.7	24.5	25.0	27.8
DK902 TF	23.3	31	22.1	20.1	23.6	22.4	26.2	25.1	29.4
BrettYoung Seeds									
BY 5125 CL	24.3	16	23.0	22.7	25.5	23.7	25.4	25.3	27.4
BY 6211 TF	24.4	11	23.2	22.5	25.0	23.2	27.1	25.8	-
CANTERRA SEEDS (Meridian Seeds, LLC)									
CS2600 CR-TF	23.0	35	22.0	21.2	24.7	22.0	22.5	25.8	28.6
CS3000 TF	25.1	3	23.6	22.6	25.6	23.9	28.3	26.9	29.3
CROPLAN									
CP9221 RR	23.1	33	21.9	20.4	23.7	21.7	26.3	24.7	27.9
CP9978 TF	24.3	14	23.0	22.4	26.1	24.1	24.3	26.1	29.1
CP7130 LL	23.9	21	22.3	21.2	25.3	22.5	25.6	26.8	28.3
CP7250 LL	25.4	2	23.2	22.7	26.3	24.2	28.2	28.0	29.6
Nuseed									
NC155 TF	25.1	5	23.7	24.0	26.4	23.7	25.2	27.5	31.0
NC471 TF	23.4	29	22.8	22.1	23.5	21.1	25.6	25.2	28.4
NC527CR TF	24.5	9	23.3	22.1	24.6	22.7	27.2	27.0	29.2
Nutrien Ag Solutions									
DG 280 CLC (CL)	23.8	26	22.2	22.4	24.3	22.3	25.8	25.6	27.7
DG 760 TM (TF)	24.5	8	23.6	22.5	24.4	24.8	25.0	26.8	28.9
DG 761 TM (TF)	24.4	13	23.3	22.3	24.9	23.9	25.9	25.9	-
DG 781 TCM (TF)	23.5	28	22.8	21.5	24.4	22.3	24.2	25.8	28.1
Photosyntech									
NCC101S	23.0	36	22.4	20.5	23.4	21.7	25.1	25.0	28.9
NCC1825/8-S	23.2	32	22.2	22.4	23.5	21.3	25.1	25.0	26.9
Star Specialty Seed									
StarFlex TF	23.9	22	22.9	21.9	23.9	23.2	25.5	25.8	27.7
University of Idaho Canola									
Empire	24.9	6	24.1	23.4	25.9	24.2	25.7	26.4	28.5
16.SC.24.9	23.8	25	23.4	22.0	24.1	23.0	24.4	26.1	27.8
16.SC.104.2	25.6	1	25.3	23.9	26.0	24.2	27.4	26.9	29.0
University of Idaho Industrial Rapeseed									
Gem (G2)	25.1	4	24.9	23.8	25.2	23.5	26.5	26.9	27.3
Industrious	23.0	34	24.0	21.3	23.4	21.8	23.4	24.4	26.8
Average	24.1		23.2	22.2	24.7	23.0	25.5	26.1	28.4
LSD (p = 0.05)			1.1	1.5	1.8	1.2	2.3	1.3	1.1
C.V. (%)			3.3	5.0	5.1	3.8	6.5	3.7	2.6

* Mean seed protein content includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.

University of Idaho 2023 PNW Spring Canola Trial Results including mean seed meal protein content (%) and rank across Idaho and Washington sites and mean seed meal protein content at individual sites. Meal protein content was calculated using seed oil content and whole seed protein content determined on subsamples of seed from each plot.

Variety	Meal Protein Content*		Meal Protein Content by Site						
	Mean	Rank	Bonnars Ferry, ID	Moscow, ID	Genesee, ID	Craigmont, ID	Davenport, WA	Dayton, WA	Hermiston, OR
----- percent -----									
Controls									
Westar	42.3	20	41.5	40.8	42.1	42.8	43.0	43.5	41.6
Profit	44.4	3	43.4	40.1	44.8	44.8	46.5	46.6	42.7
CP930 RR	44.8	2	43.7	42.6	45.9	45.1	44.4	47.4	44.3
Goldrush	41.8	28	42.9	39.6	42.9	40.3	42.7	42.3	43.2
BASF Corporation									
InVigor L233P (LL)	42.6	18	41.8	39.4	43.0	41.6	44.3	45.4	41.7
InVigor L340PC (LL)	41.8	27	41.0	40.2	41.3	41.4	42.0	44.9	42.0
InVigor L343PC (LL)	43.1	13	42.3	40.1	43.9	42.9	44.3	45.5	43.3
InVigor LR344PC (LL+TF)	42.8	17	42.5	41.0	42.4	42.3	43.4	45.3	42.8
InVigor L345PC (LL)	41.9	25	40.8	38.9	41.4	40.9	45.2	43.9	41.0
InVigor LR354PC (LL+TF)	41.9	23	40.4	38.9	43.7	41.1	42.9	44.4	40.8
Bayer CropScience									
DKTFL21SC (TF+LL)	43.5	9	44.7	39.7	43.1	41.4	45.2	47.0	44.7
DK900 TF	41.0	32	40.4	37.3	43.4	38.8	43.3	43.0	41.9
DK902 TF	41.3	30	40.8	36.7	41.3	41.3	44.4	43.4	42.8
BrettYoung Seeds									
BY 5125 CL	43.8	7	42.5	41.8	44.6	43.5	45.3	45.0	42.0
BY 6211 TF	43.0	16	42.3	39.6	43.5	42.0	46.4	44.2	-
CANTERRA SEEDS (Meridian Seeds, LLC)									
CS2600 CR-TF	41.3	29	41.0	38.6	43.0	40.7	40.7	44.2	42.7
CS3000 TF	44.2	4	43.9	41.1	44.2	43.6	46.4	46.2	44.4
CROPLAN									
CP9221 RR	40.2	33	39.9	36.6	40.8	39.3	42.9	41.5	41.5
CP9978 TF	43.3	12	42.4	40.3	44.5	43.4	44.1	45.3	44.2
CP7130 LL	41.9	24	40.7	38.2	43.4	41.4	43.3	44.5	41.1
CP7250 LL	45.1	1	42.7	41.6	45.9	44.4	48.8	47.2	42.7
Nuseed									
NC155 TF	43.1	14	43.1	41.3	44.2	42.0	43.2	45.0	44.1
NC471 TF	41.8	26	42.3	39.7	42.0	39.4	43.8	43.8	42.4
NC527CR TF	43.9	6	42.9	40.4	44.6	42.5	46.7	46.5	44.2
Nutrien Ag Solutions									
DG 280 CLC (CL)	41.9	22	40.6	40.0	42.2	41.3	44.1	43.4	40.7
DG 760 TM (TF)	43.5	10	43.5	40.3	42.6	44.3	44.5	45.8	43.5
DG 761 TM (TF)	43.4	11	43.3	40.2	44.0	43.2	44.8	45.2	-
DG 781 TCM (TF)	42.4	19	42.3	39.8	43.8	41.0	42.8	44.8	42.6
Photosyntech									
NCC101S	38.8	35	38.6	35.7	39.5	37.9	40.5	40.7	41.1
NCC1825/8-S	38.6	36	38.6	36.9	39.1	36.4	40.3	40.1	39.8
Star Specialty Seed									
StarFlex TF	43.1	15	43.0	39.6	42.5	42.5	45.5	45.2	43.1
University of Idaho Canola									
Empire	42.0	21	41.5	39.6	42.2	42.5	42.6	43.4	42.7
16.SC.24.9	41.3	31	41.0	38.3	40.8	41.3	42.1	44.2	41.1
16.SC.104.2	44.0	5	44.3	41.4	44.0	43.7	45.9	44.8	42.0
University of Idaho Industrial Rapeseed									
Gem (G2)	43.7	8	43.9	41.8	43.5	42.6	44.9	45.7	40.4
Industrious	39.5	34	41.0	37.1	39.9	38.4	40.5	40.2	40.0
Average	42.4		42.0	39.6	42.9	41.7	43.9	44.4	42.3
LSD (p = 0.05)			1.3	1.8	1.8	1.5	2.5	1.5	1.2
C.V. (%)			2.3	3.2	3.0	2.5	4.0	2.4	2.1

* Mean seed protein content includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.

University of Idaho 2023 PNW Spring Canola Trial Results including mean seed oil content (%) and rank across Idaho and Washington sites and mean oil content at individual sites. Seed oil content was estimated on a subsamples of seed from each plot using near infrared spectrophotometry (NIR).

Variety	Oil Content*		Oil Content by Site						
	Mean	Rank	Bonnars Ferry, ID	Moscow, ID	Genesee, ID	Craigmont, ID	Davenport, WA	Dayton, WA	Hermiston, OR
----- percent -----									
Controls									
Westar	42.2	29	42.8	42.5	41.3	43.9	42.5	40.3	33.4
Profit	44.5	5	44.6	46.0	43.8	46.2	43.5	43.1	33.7
CP930 RR	46.4	1	47.1	46.2	46.4	48.5	45.7	44.8	34.7
Goldrush	41.6	33	42.2	43.2	41.5	43.4	39.0	40.7	34.0
BASF Corporation									
InVigor L233P (LL)	43.3	20	45.3	44.5	42.6	44.6	41.5	41.0	32.9
InVigor L340PC (LL)	43.0	24	44.4	43.0	43.0	44.8	41.8	41.2	31.8
InVigor L343PC (LL)	43.7	16	45.1	45.2	43.1	45.0	41.0	42.6	35.3
InVigor LR344PC (LL+TF)	43.7	15	44.7	44.1	43.6	45.2	43.2	41.7	33.0
InVigor L345PC (LL)	43.1	23	44.7	43.0	42.6	44.9	41.7	41.8	32.3
InVigor LR354PC (LL+TF)	43.6	17	45.8	43.4	42.1	45.5	43.2	41.9	33.0
Bayer CropScience									
DKTFLL21SC (TF+LL)	44.4	6	46.5	46.2	44.4	44.9	42.9	41.7	34.5
DK900 TF	43.3	19	45.4	43.4	41.9	44.1	43.4	41.9	33.7
DK902 TF	43.8	12	45.8	45.4	42.9	45.8	41.1	42.0	31.4
BrettYoung Seeds									
BY 5125 CL	44.6	4	45.8	45.6	42.9	45.6	44.1	43.7	34.7
BY 6211 TF	43.2	22	45.3	43.2	42.7	44.9	41.7	41.6	-
CANTERRA SEEDS (Meridian Seeds, LLC)									
CS2600 CR-TF	44.4	7	46.5	45.0	42.6	46.0	44.8	41.7	33.1
CS3000 TF	43.3	21	46.2	45.1	42.2	45.4	39.1	41.7	33.9
CROPLAN									
CP9221 RR	42.6	27	45.2	44.3	41.9	44.8	38.8	40.6	32.6
CP9978 TF	43.9	11	45.7	44.5	41.3	44.4	45.0	42.5	34.2
CP7130 LL	43.0	25	45.3	44.5	41.8	45.6	41.0	39.8	31.2
CP7250 LL	43.7	13	45.6	45.5	42.7	45.6	42.2	40.9	30.8
Nuseed									
NC155 TF	41.9	30	45.1	41.9	40.4	43.6	41.8	38.9	29.6
NC471 TF	44.2	9	46.3	44.3	43.9	46.7	41.5	42.4	32.9
NC527CR TF	44.4	8	45.8	45.4	44.9	46.5	41.8	42.0	34.0
Nutrien Ag Solutions									
DG 280 CLC (CL)	43.5	18	45.4	44.1	42.5	46.1	41.7	41.1	31.9
DG 760 TM (TF)	43.7	14	45.8	44.3	42.9	44.1	43.8	41.5	33.5
DG 761 TM (TF)	44.0	10	46.2	44.5	43.5	44.8	42.3	42.7	-
DG 781 TCM (TF)	44.7	2	46.3	46.1	44.3	45.7	43.7	42.5	34.0
Photosyntech									
NCC101S	40.8	34	42.1	42.5	41.0	42.7	38.0	38.5	29.9
NCC1825/8-S	39.8	36	42.5	39.5	40.0	41.7	37.5	37.7	32.3
Star Specialty Seed									
StarFlex TF	44.7	3	46.8	44.7	44.0	45.6	44.1	42.8	35.8
University of Idaho Canola									
Empire	40.5	35	42.0	40.8	38.6	43.1	39.8	39.0	33.2
16.SC.24.9	42.3	28	43.1	42.6	40.9	44.4	42.0	41.1	32.4
16.SC.104.2	41.9	31	43.0	42.3	41.0	44.6	40.2	40.0	31.0
University of Idaho Industrial Rapeseed									
Gem (G2)	42.7	26	43.4	43.3	42.2	44.9	41.2	41.1	32.6
Industrious	41.8	32	41.5	42.7	41.5	43.4	42.2	39.4	33.0
Average	43.2		44.9	44.0	42.5	44.9	41.9	41.3	33.0
LSD (p = 0.05)			1.3	1.8	2.0	1.4	2.8	1.5	2.1
C.V. (%)			2.1	3.0	3.4	2.3	4.7	2.5	4.6

* Mean oil content includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.

University of Idaho 2023 PNW Spring Canola Trial Results including mean seed protein content (%) and rank across Idaho and Washington sites and mean seed protein content at individual sites. Seed protein content was estimated on a subsamples of seed from each plot using near infrared spectrophotometry (NIR).

Variety	Seed Protein Content*		Seed Protein Content by Site							
	Mean	Rank	Bonnars Ferry, ID	Moscow, ID	Genesee, ID	Craigmont, ID	Davenport, WA	Dayton, WA	Hermiston, OR	
----- percent -----										
Controls										
Westar	24.4	10	23.7	23.5	24.8	24.0	24.7	26.0	27.7	
Profit	24.7	7	24.1	21.7	25.3	24.1	26.3	26.5	28.4	
CP930 RR	24.0	20	23.1	22.9	24.6	23.2	24.2	26.2	28.9	
Goldrush	24.4	12	24.8	22.5	25.2	22.8	26.0	25.1	28.4	
BASF Corporation										
InVigor L233P (LL)	24.2	18	22.9	21.9	24.8	23.0	25.9	26.8	28.0	
InVigor L340PC (LL)	23.8	24	22.9	23.0	23.5	22.9	24.5	26.4	28.6	
InVigor L343PC (LL)	24.3	15	23.2	22.0	25.0	23.6	26.2	26.1	28.0	
InVigor LR344PC (LL+TF)	24.1	19	23.5	22.9	24.0	23.2	24.7	26.4	28.6	
InVigor L345PC (LL)	23.9	23	22.6	22.2	23.8	22.6	26.4	25.6	27.8	
InVigor LR354PC (LL+TF)	23.6	27	21.9	22.0	25.3	22.4	24.4	25.8	27.3	
Bayer CropScience										
DKTFLL21SC (TF+LL)	24.2	17	23.9	21.4	24.0	22.8	25.8	27.4	29.3	
DK900 TF	23.3	30	22.1	21.1	25.2	21.7	24.5	25.0	27.8	
DK902 TF	23.3	31	22.1	20.1	23.6	22.4	26.2	25.1	29.4	
BrettYoung Seeds										
BY 5125 CL	24.3	16	23.0	22.7	25.5	23.7	25.4	25.3	27.4	
BY 6211 TF	24.4	11	23.2	22.5	25.0	23.2	27.1	25.8	-	
CANTERRA SEEDS (Meridian Seeds, LLC)										
CS2600 CR-TF	23.0	35	22.0	21.2	24.7	22.0	22.5	25.8	28.6	
CS3000 TF	25.1	3	23.6	22.6	25.6	23.9	28.3	26.9	29.3	
CROPLAN										
CP9221 RR	23.1	33	21.9	20.4	23.7	21.7	26.3	24.7	27.9	
CP9978 TF	24.3	14	23.0	22.4	26.1	24.1	24.3	26.1	29.1	
CP7130 LL	23.9	21	22.3	21.2	25.3	22.5	25.6	26.8	28.3	
CP7250 LL	25.4	2	23.2	22.7	26.3	24.2	28.2	28.0	29.6	
Nuseed										
NC155 TF	25.1	5	23.7	24.0	26.4	23.7	25.2	27.5	31.0	
NC471 TF	23.4	29	22.8	22.1	23.5	21.1	25.6	25.2	28.4	
NC527CR TF	24.5	9	23.3	22.1	24.6	22.7	27.2	27.0	29.2	
Nutrien Ag Solutions										
DG 280 CLC (CL)	23.8	26	22.2	22.4	24.3	22.3	25.8	25.6	27.7	
DG 760 TM (TF)	24.5	8	23.6	22.5	24.4	24.8	25.0	26.8	28.9	
DG 761 TM (TF)	24.4	13	23.3	22.3	24.9	23.9	25.9	25.9	-	
DG 781 TCM (TF)	23.5	28	22.8	21.5	24.4	22.3	24.2	25.8	28.1	
Photosyntech										
NCC101S	23.0	36	22.4	20.5	23.4	21.7	25.1	25.0	28.9	
NCC1825/8-S	23.2	32	22.2	22.4	23.5	21.3	25.1	25.0	26.9	
Star Specialty Seed										
StarFlex TF	23.9	22	22.9	21.9	23.9	23.2	25.5	25.8	27.7	
University of Idaho Canola										
Empire	24.9	6	24.1	23.4	25.9	24.2	25.7	26.4	28.5	
16.SC.24.9	23.8	25	23.4	22.0	24.1	23.0	24.4	26.1	27.8	
16.SC.104.2	25.6	1	25.3	23.9	26.0	24.2	27.4	26.9	29.0	
University of Idaho Industrial Rapeseed										
Gem (G2)	25.1	4	24.9	23.8	25.2	23.5	26.5	26.9	27.3	
Industrious	23.0	34	24.0	21.3	23.4	21.8	23.4	24.4	26.8	
Average	24.1		23.2	22.2	24.7	23.0	25.5	26.1	28.4	
LSD (p = 0.05)			1.1	1.5	1.8	1.2	2.3	1.3	1.1	
C.V. (%)			3.3	5.0	5.1	3.8	6.5	3.7	2.6	

* Mean seed protein content includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.

University of Idaho 2023 PNW Spring Canola Trial Results including mean seed meal protein content (%) and rank across Idaho and Washington sites and mean seed meal protein content at individual sites. Meal protein content was calculated using seed oil content and whole seed protein content determined on subsamples of seed from each plot.

Variety	Meal Protein Content*		Meal Protein Content by Site						
	Mean	Rank	Bonnerr's Ferry, ID	Moscow, ID	Genesee, ID	Craigmont, ID	Davenport, WA	Dayton, WA	Hermiston, OR
----- percent -----									
Controls									
Westar	42.3	20	41.5	40.8	42.1	42.8	43.0	43.5	41.6
Profit	44.4	3	43.4	40.1	44.8	44.8	46.5	46.6	42.7
CP930 RR	44.8	2	43.7	42.6	45.9	45.1	44.4	47.4	44.3
Goldrush	41.8	28	42.9	39.6	42.9	40.3	42.7	42.3	43.2
BASF Corporation									
InVigor L233P (LL)	42.6	18	41.8	39.4	43.0	41.6	44.3	45.4	41.7
InVigor L340PC (LL)	41.8	27	41.0	40.2	41.3	41.4	42.0	44.9	42.0
InVigor L343PC (LL)	43.1	13	42.3	40.1	43.9	42.9	44.3	45.5	43.3
InVigor LR344PC (LL+TF)	42.8	17	42.5	41.0	42.4	42.3	43.4	45.3	42.8
InVigor L345PC (LL)	41.9	25	40.8	38.9	41.4	40.9	45.2	43.9	41.0
InVigor LR354PC (LL+TF)	41.9	23	40.4	38.9	43.7	41.1	42.9	44.4	40.8
Bayer CropScience									
DKTFLL21SC (TF+LL)	43.5	9	44.7	39.7	43.1	41.4	45.2	47.0	44.7
DK900 TF	41.0	32	40.4	37.3	43.4	38.8	43.3	43.0	41.9
DK902 TF	41.3	30	40.8	36.7	41.3	41.3	44.4	43.4	42.8
BrettYoung Seeds									
BY 5125 CL	43.8	7	42.5	41.8	44.6	43.5	45.3	45.0	42.0
BY 6211 TF	43.0	16	42.3	39.6	43.5	42.0	46.4	44.2	-
CANTERRA SEEDS (Meridian Seeds, LLC)									
CS2600 CR-TF	41.3	29	41.0	38.6	43.0	40.7	40.7	44.2	42.7
CS3000 TF	44.2	4	43.9	41.1	44.2	43.6	46.4	46.2	44.4
CROPLAN									
CP9221 RR	40.2	33	39.9	36.6	40.8	39.3	42.9	41.5	41.5
CP9978 TF	43.3	12	42.4	40.3	44.5	43.4	44.1	45.3	44.2
CP7130 LL	41.9	24	40.7	38.2	43.4	41.4	43.3	44.5	41.1
CP7250 LL	45.1	1	42.7	41.6	45.9	44.4	48.8	47.2	42.7
Nuseed									
NC155 TF	43.1	14	43.1	41.3	44.2	42.0	43.2	45.0	44.1
NC471 TF	41.8	26	42.3	39.7	42.0	39.4	43.8	43.8	42.4
NC527CR TF	43.9	6	42.9	40.4	44.6	42.5	46.7	46.5	44.2
Nutrien Ag Solutions									
DG 280 CLC (CL)	41.9	22	40.6	40.0	42.2	41.3	44.1	43.4	40.7
DG 760 TM (TF)	43.5	10	43.5	40.3	42.6	44.3	44.5	45.8	43.5
DG 761 TM (TF)	43.4	11	43.3	40.2	44.0	43.2	44.8	45.2	-
DG 781 TCM (TF)	42.4	19	42.3	39.8	43.8	41.0	42.8	44.8	42.6
Photosyntech									
NCC101S	38.8	35	38.6	35.7	39.5	37.9	40.5	40.7	41.1
NCC1825/8-S	38.6	36	38.6	36.9	39.1	36.4	40.3	40.1	39.8
Star Specialty Seed									
StarFlex TF	43.1	15	43.0	39.6	42.5	42.5	45.5	45.2	43.1
University of Idaho Canola									42.7
Empire	42.0	21	41.5	39.6	42.2	42.5	42.6	43.4	
16.SC.24.9	41.3	31	41.0	38.3	40.8	41.3	42.1	44.2	41.1
16.SC.104.2	44.0	5	44.3	41.4	44.0	43.7	45.9	44.8	42.0
University of Idaho Industrial Rapeseed									
Gem (G2)	43.7	8	43.9	41.8	43.5	42.6	44.9	45.7	40.4
Industrious	39.5	34	41.0	37.1	39.9	38.4	40.5	40.2	40.0
Average	42.4		42.0	39.6	42.9	41.7	43.9	44.4	42.3
LSD (p = 0.05)			1.3	1.8	1.8	1.5	2.5	1.5	1.2
C.V. (%)			2.3	3.2	3.0	2.5	4.0	2.4	2.1

* Mean meal protein content includes only Idaho and Washington sites due to missing entries at the Hermiston, Oregon, site.