



HEMP SEED CATALOGUE

2026



DESIGNED TO SUCCEED

Performance-focused varieties

from seasoned innovators.

At Verve Seeds we specialize in hemp breeding, field testing, and certified seed sales of elite hemp varieties. We help develop and field test the latest and most innovative hemp genetics, to give hemp grain, fibre and cannabinoid producers dependable “fit for purpose” product performance.

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Designed For Success

Verve tailors seed varieties to your farm operation, supported by the largest hemp-breeding program in North America.

Full-Service Support

Our professional agronomists will guide you through your journey with hemp as you plan, plant, grow, and harvest your crop.

Trusted Quality

Our seed varieties are crafted to stringent North American standards, using protocols to ensure irreproachable quality that you can trust.

TRIAL RESEARCH DATA

Verve Seed Solutions Performance Trials

Objective

Verve Seed Solutions established a total of 6 yield performance trials across Western Canada. Site locations included Russell (MB), Melita (MB), Winkler (MB), Saskatoon (SK) Lethbridge (AB) and Coaldale (AB).

Each site was set up in a randomized complete block design with 4 replications. Seeding dates were from May 27 – June 15th, 2025.

2025 Hybrid Performance Trial Summary

LOC	Coaldale AB		Saskatoon Sk		La Salle, Mb		Melita, Mb		Roblin, MB		Winkler, Mb		AVERAGE	
NAME	% CHK	RNK	% CHK	RNK	% CHK	RNK	% CHK	RNK	% CHK	RNK	% CHK	RNK	% CHK	RNK
CFX-2 (check)	100	16	100	18	100	16	100	21	100	19	100	26	100	19
EXP-HY-24-03	177	1	200	1	222	1	178	2	209	1	166	8	192	1
EXP-HY-24-04	133	6	194	2	-	-	180	1	186	4	214	1	182	2
EXP-HY-24-01	147	3	153	6	187	2	167	4	175	8	177	6	168	3
EXP-HY-23-03	126	9	159	4	166	4	165	5	172	9	189	2	163	4
EXP-HY-24-11	127	8	156	5	131	12	148	10	189	3	180	4	155	5
EXP-HY-23-01	98	18	162	3	169	3	135	12	168	10	175	7	151	6
EXP-HY-23-05	125	10	129	9	133	9	152	9	177	7	189	3	151	7
EXP-HY-23-07	85	23	136	7	-	-	156	6	180	5	145	17	140	8
EXP-HY-23-02	94	21	119	15	131	11	153	8	179	6	154	14	138	9
EXP-HY-23-06	97	20	134	8	-	-	139	11	155	11	162	10	138	10
EL1-140	134	5	128	10	140	7	129	13	126	15	165	9	137	11
EXP-HY-23-04	80	24	122	13	133	8	127	15	143	13	146	15	125	12
Indigo	109	13	97	19	149	5	111	20	94	20	177	5	123	13
Rak	106	14	124	11	132	10	111	19	133	14	128	21	122	14
EXP-HY-23-08	97	19	91	20	127	13	122	17	125	16	162	11	121	15
EXP-HY-24-14	91	22	103	16	118	14	124	16	153	12	109	25	116	16
Rak (new)	121	11	123	12	98	17	128	14	106	18	114	23	115	17
CFX-2 (entry)	99	17	103	17	105	15	112	18	121	17	131	20	112	18
MEAN lbs/acre	1959		1426		1200		1719		2483		1862			
CV%	16.9		15.7		17.7		11.4		12		15.3		14.8	

* Colour Coding:

Dark Green = Top-yielding hybrids | Light Green = All other hybrids | Grey/White = Checks & Open pollinated Entries

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2026 GRAIN VARIETIES

CFX-2

Variety Name: CFX-2

Variety Purpose: Grain/Fibre

Variety Type: Open Pollinated

Description

CFX-2 is a very popular variety used in organic systems in Canada and the US. The consistently uniform plant structure and excellent harvestability of CFX-2 are valuable traits recognized by both breeders and growers. Organic growers are especially drawn to this variety because of the superior vigour during establishment, tall stature that provides excellent weed control, and ability of the plant to scavenge nutrients when soil fertility is limited.

Applications

Growers operating on dryland systems in the southern part of Canada and mid to northern regions of the USA find that grain yields are strong thanks to a larger seed size and uniform plant structure.

CFX-2	
Origin	Canada
Seed Rate Grain	25-30 lbs/acre
Seed Rate Fibre	30-45 lbs/acre
Use	Grain/Fibre
Maturity (Canada - 50 degrees latitude)	~110+ days
CBD: THC Ratio	Between 10:1
Plant height (Canada - 50-degree latitude)	130-150cm
Female to Male (average)	60% female
Growth Habit	Medium
CBD Average %	0.5%-2.7%
Oil Content	32.1
Years of Data Collected	10

Key Characteristics

- Registered in 2015
- Medium-size seed, dioecious variety
- End uses: food and fibre
- High grain yielder
- Kernel weight: 16 grams/TKW seeds
- Soil requirements: well-drained soils of medium texture are ideal
- Time of flowering: ~50 days from planting



Indigo

Variety Name: Indigo

Variety Purpose: Grain/Flower/Fibre

Variety Type: Open Pollinated

Description

A moderately tall grain variety with an interesting look. Up to 30% of Indigo females have a distinguishing purple seed head packed with grain. With a bold terpene profile, Indigo is one on our later maturing varieties and yields very well in an extended season or more southern latitudes. Indigo can assist in spreading out your harvest season and works well as a dual-purpose crop (grain and fibre). Indigo has good shatter resistance and a large seed head that attributes to its high grain-yielding capability.

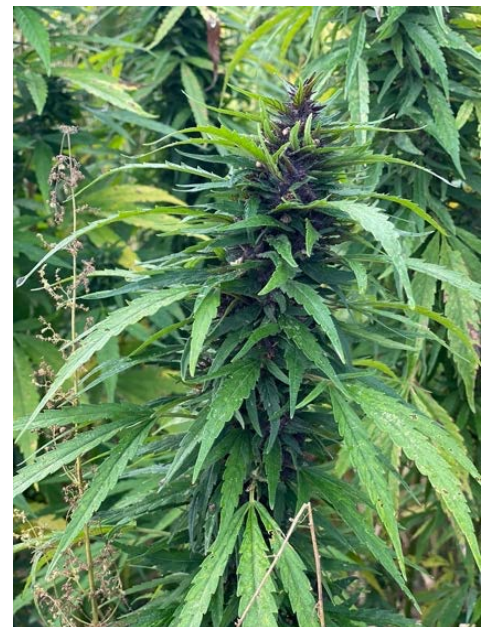
Applications

Indigo's main applications are for grain/food and flower and can be considered for dual purpose grain and fibre production.

Indigo	
Origin	Canada
Seed Rate Grain	25-30 lbs/acre
Seed Rate Fibre	35-40 lbs/acre
Use	Grain/Flower
Maturity (Canada - 50 degrees latitude)	120 days
CBD: THC Ratio (variable)	30:1
Plant height (Canada - 50-degree latitude)	100-150cm
Female to Male (average)	60% female
Growth Habit	Moderate height
CBD Average %	~3.5%
Years of Data Collected	3

Key Characteristics

- Moderate season maturity
- Large seed heads
- Day neutral tendency



Variety Name: Rak**Variety Purpose:** Grain**Variety Type:** Open Pollinated

Applications

Rak

Description

Elevate your hemp cultivation by using our latest Open-Pollinated hemp variety from Verve Seed Solutions, Rak. This groundbreaking cultivar boasts generously sized seed heads for optimal grain yield while our superior seed shatter resistance streamlines your harvesting process for efficiency. With a focus on large, high-quality seeds, this variety exceeds industry standards. Rak's seed heads are strategically designed not only to maximize airflow, but also to enhance disease resistance. Tolerant to herbicides and Group 2 herbicide residue, Rak offers flexibility in crop management.

Applications

Processors praise Rak for its outstanding dehulling, impressive oil content, and a smooth, buttery flavor profile that stands out in the industry. Its combination of large seed heads and a compact stature contributes to a remarkably high harvest index, positioning Rak as one of the industry's top performers. Noted for its early-season vigour and the ability to suppress weeds with substantial biomass, Rak is a proven winner in organic systems. It performs exceptionally under irrigation, suiting it to a wide range of cultivation practices.

Rak	
Origin	Canada
Seed Rate Grain	NA
Seed Rate Fibre	25-30 lbs/acre
Use	Grain
Maturity (Canada - 50 degrees latitude)	115 Days
Plant height (Canada - 50-degree latitude)	130-160cm
Female to Male (average)	55% F
Growth Habit	Moderate
CBD Average %	.5-2.7%

Key Characteristics

- Increased herbicide tolerance
- Outstanding dehulling yields
- Top grain yield
- Very large seed size
- Early to moderate maturity





2026 FIBRE VARIETIES

Jurassic

Variety Name: Jurassic (21D54P1)

Variety Purpose: Fibre

Variety Type: Dioecious

Description

Jurassic is the first fibre specific variety coming from the Verve Breeding program. This variety is a true biomass monster to meet the needs of the Fibre (bast and hurd) industry! Limited seed availability for 2026.

Applications

Jurassic is a Fibre specific variety.

Jurassic	
Origin	Canada
Seed Rate Grain	NA
Seed Rate Fibre	30-45 lbs/acre
Use	Fibre
Maturity (Canada - 50 degrees latitude)	125 + days
CBD: THC Ratio	NA
Plant height (Canada - 50-degree latitude)	4 m
Female to Male (average)	NA
Growth Habit	Uniform Upright Very Tall
CBD Average %	NA
Commercial seed	Available 2024
Years of Data Collected	3

Key Characteristics

- Flowers beginning of September
- Up to 4 meters in height
- Ideal for green fibre harvest
- Minimal branching
- Excellent internode spacing for long fibre applications





2026 FEMINIZED VARIETIES

CBF1

Variety Name: CBF1

Variety Purpose: Flower Production

Variety Type: Hybrid

Description

CBF1 is a photoperiod-sensitive, long-season hybrid with flower production yielding up to 10% CBD and a CBD:THC ratio of 30:1.

Applications

CBF1 is used for flour/CBD purposes.

CBF1	
Origin	Canada
Seed Rate Flower	2500-3000 plants/acre
Flower Yield	1-1.5 lb/plant
Use	Flower
Maturity (Canada - 50 degrees latitude)	Photo period late maturing
CBD: THC Ratio (variable)	30:1
Plant height (Canada - 50-degree latitude)	183cm
Female to Male (average)	99% feminized
Growth Habit	Bushy
CBD Average %	Up to 10%
Years of Data Collected	3

Key Characteristics

- First high-CBD feminized hemp hybrid approved by Health Canada
- Developed through extensive crossing and selection pressure
- Photoperiod sensitive late season
- Flower initiation begins early September
- 99% feminized
- Ideal for blending and product formulation
- Terpenes exhibit floral and fruity notes with earthy undertones



Ambassador

Variety Name: Ambassador

Variety Purpose: Flower Production

Variety Type: Hybrid Autoflower

Description

From the Charlotte's Web breeding team, a Verve strategic partner, comes *Ambassador*—a new hemp variety for those who need a short-season performer. Ambassador is an autoflower, meaning flowering initiates before the days get shorter.

Applications

CBD Extraction is the main purpose of this variety.

Ambassador	
Origin	USA
Use	Flower
Maturity (Canada – 50 degrees latitude)	Auto flower 9 weeks from planting to harvest
CBD: THC Ratio (variable)	28:1
Plant height (Canada - 50-degree latitude)	91cm
Female to Male (average)	99% feminized
Growth Habit	Short compact with numerous branching
CBD Average %	Up to 9%
Seeding Rate	10,00- 15,000 plants/acre

Key Characteristics

- 25 days to flower after seeding
- 65 days to harvest after seeding
- 2-3ft tall plants dependent on plant density
- Sweet earthy aroma with hints of pine
- Major terpenes beta-caryophyllene, alpha-bisabolol, guaiol, alpha-humulene, fenchol, beta-myrcene
- Short compact structure can be planted at high density



Umpqua

Variety Name: Umpqua

Variety Purpose: Flower Production

Variety Type: Hybrid

Description

Umpqua is a mid-season feminized CBD hemp cultivar developed by Arcadia Biosciences, a Verve strategic partner. Verve is excited to deliver growers this early flowering cultivar with significantly increased production returns, excellent vigour, uniform plant type, high flower yields, and CBD content up to 10%.

Applications

CBD Extraction is the main end use of this variety.

Umpqua	
Origin	USA
Use	Flower
Maturity (Canada - 50 degrees latitude)	Photo period neutral
CBD: THC Ratio (variable)	30:1
Plant height (Canada - 50-degree latitude)	180 cm
Female to Male (average)	99% feminized
Growth Habit	Bushy
CBD Average %	Up to 10%
Flower Yield	1.5-2 lbs/plant
Seeding rate	2,500-3,000 plants/acre

Key Characteristics

- Photoperiod neutral parent, quick to flower and an early finisher
- Photoperiod sensitive, mid-season hybrid ready for harvest in mid to late September
- Terpenes: Caryophyllene, myrcene and guaiol give an intense peppery aroma with a piney finish
- Derived through extensive inbreeding to derive homozygous parents



Chola

Variety Name: Chola

Variety Purpose: Flower Production

Variety Type: Feminized F1 Hybrid

Description

Chola is an early-flowering feminized CBD hemp cultivar developed by HMP Biogenic Ltd. Chola is highly suitable for the production of both smokable flower and CBD biomass for extraction purposes. The variety can produce up to 1000 kg of dried CBD biomass per acre when planted early in the season. Verve is excited to deliver growers this early-flowering cultivar with significantly increased production returns, excellent F1 hybrid vigour, uniform plant type, high flower yields, amazing citrus-forward terpene profile, and a healthy CBD content up to 17-20% in trimmed flower.

Applications

Smokable flower and CBD extraction are the main end uses of this variety.

Chola	
Origin	Canada
Use	Flower
Maturity (Canada - 50 degrees latitude)	Early-flowering
CBD: THC Ratio (variable)	35:1
Plant height (Canada - 50-degree latitude)	250 cm
Female to Male (average)	99% feminized
CBD Average %	10-12% in biomass 17-19% in trimmed flower
Flower Yield	1.5-2 lbs/plant
Seeding rate	2,500-3,000 plants/acre

Key Characteristics

- Early flowering F1 hybrid created from inbred auto-flowering and photoperiod sensitive parents
- Flowers ready for harvest by end of September
- Moderate to high mold tolerance
- Myrcene, Terpinolene, and Caryophyllene give the flowers a fresh, herbal, and slightly sweet aroma with notes of pine, citrus, and floral undertones.





RAISING EXPECTATIONS

Expert support from

experienced agronomists.

VERVE SEEDS

High Performance Hemp



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