

# SEED CATALOGUE

## 2024



**Dear customer,**

We are pleased to present our seed catalogue for 2024. We have improved our services this year too, and with the latest seed cleaning technology we have brought further focus on cleaning our seeds to PQ quality. We are still in a market with a shortage of seeds of several important species, and that is why it is important to ensure that our customers get the most out of the product, we supply.

In 2024, we expanded our organisation and thus increased the focus on both production and customers, and we are looking forward to presenting the new team.



Our seed catalogue provides an overview of a wide range of seeds for forests, Christmas trees, greenery, shrubs and hedge production. The prices are indicative, but if larger quantities or special needs are required and not included in this price list, we will find a solution.

Unless we agree otherwise, the goods are delivered as dry, shelf-stable seed purified to normal standards for forest seed. For most species we can now offer purification to a higher quality – even if you have bought seeds elsewhere.

On our website ([hdseed.eu](http://hdseed.eu)) you will find, among other things, descriptions of provenances and our seed sources. We are continuously updating this information.

We reserve the right for intermediate sales and printing errors.

If you have any questions, you are always welcome to contact us via the contact information below. We look forward to doing business with you.

Yours sincerely,

  
Thomas Toftgaard  
Division Director

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## News

### PS Elite FP.690

Nordmann fir PS Elite FP.690 is composed of 11 selected plus trees from the Tversted pool, all tested at 10 different locations in Denmark. The material has its origins in the 2 chosen stands in Tversted.

The selection criteria have been needle retention after harvest, high Christmas tree yield, late emergence and that parts of the material will be less susceptible to aphid attacks.

PS Elite FP.690 is a 1.5 generation seed orchard, and the offspring of the seedling is expected to give an increased Christmas tree yield of 16-18 % compared to the starting material. Furthermore, the material will be improved in terms of needle retention after harvest, measured for the months of October and November. Other properties such as later emergence and less susceptibility to aphids will also be improved compared to the starting material.

PS Elite FP.690 is genetically identical to the already marketed PS Elite FP.670, which from 2024 is also organically certified. There are now 13 hectares of PS Elite Nordmann fir seed orchard in production.



### Tveden F.824

Nordmann fir Tveden F.824 originates from Ambrolauri, Tlugi, Georgia, where the seed was harvested in the period 1979-1981.

The seed stand was established as a normal Christmas tree culture with a number of plants corresponding to 4-5,000 trees per hectare. When the trees reached Christmas tree size, the best Christmas tree types were selected as permanent trees for the future seed breeding.

The offspring of the seed breeding stand Tveden F.824 is expected to be improved compared to the starting material. The improvement is estimated to be up to 3-5 % more ON (Original Nordmann) trees per hectare.

Selected plus trees in Tveden F.824 have been used in the establishment of Sønderskovgård FP.246 and Skibelund FP.266.



## Pre-treatment

At HD Seed, we can help with pre-treatment of the seed. Most seeds are naturally dormant and require pre-treatment to ensure sufficient and even germination. The different species have different needs for pre-treatment.

During the pre-treatment, the seed is continuously monitored to ensure that the correct conditions – both in terms of humidity and temperature – are present. We continuously take germination samples of the seed during the pre-treatment and inform about the germination capacity at the latest on delivery.

Short-term pre-treatment, 1-3 months – EUR 7.50/kg

Long-term pre-treatment, up to 12 months – EUR 39.00/kg

Pre-treatment requires that the order has been received on time, so that the seed can be ready for sowing.

## Other services

We are helpful in processing external seed lots. Contact us for quotations.

## PQ cleaning

For an increasing part of the seed produced, the highest possible quality is required for sowing in plug/container. This is achieved by means of a subsequent cleaning with a series of special-purpose machines. Here the aim is to achieve the highest quality in terms of vitality and purity and a uniform size, weight and colour. We continuously invest in technology to improve the result.

## Analyses

We regularly carry out seed analyses in our laboratory to ensure the quality of the seed produced. Germination analyses are made as well as registration of quality data such as purity, moisture content, 1,000-grain weight and vitality.

## Storage

We are happy to store both purchased seed lots and external seed lots in our cold stores.

## Additional products

We also sell cones and cone scales.




Contact [info@hdseed.eu](mailto:info@hdseed.eu) for further information on this.



## Seed quality

- S Standard quality. Meets our minimum requirements to the seed lot.
- S+ Standard+. Further cleaning has been carried out. Increased vitality and purity.
- PQ** Plug Quality. The highest possible quality. Particularly suitable for production in plug/container.

## Abbreviations/symbols














- F Seed source approved by the Danish Agricultural Agency.
- FP Seed orchard approved by the Danish Agricultural Agency.
- L Landscape-selected seed orchard or seed plantation.
-  Hedge or non-forest purpose.
-  The provenance is suitable for the production of Christmas trees or greenery.
-  State controlled organic.
- Seed/kg Live seed per kg based on germination, tetrazolium or cut test.
- V Vitality is stated where there was no germination result available at the time of publication of this catalogue.
- PQ** Plug quality. Seed cleaned to particularly high vitality and purity. Particularly suitable for use in container production.
- NEW** New seed source.



## Other sales conditions

- Minimum sales: 100 g per batch.
- The price per 1 kg applies from ½ kg and up. For larger quantities, please inquire.
- Where the status of the provenance appears as 'pending', the price is indicative.
- Delivery ex factory. Freight prices are continuously adjusted according to applicable fuel surcharge.

Name and provenance	Crop year	Germination %	Seed/kg	EUR (kg)
<b>CONIFERS</b>				
<b>Abies alba</b>				
Bækkelund FP.242 DK	2023	72 (V)	9,016	215
82710 DE	2022 - Pending new crop	66 (V)	22,683	170
<b>Abies balsamea</b>				
Nova Scotia CA	2013	64	10,551	310
<b>Abies bornmuelleriana</b>				
Kongsøre FP.267 DK	 2022 - Pending new crop	86 (V)	11,086	-
Hjorthede DK	 2023	92 (V)	10,060	175
Aladag-demirciler TR	 2023	75 (V)	10,204	107
<b>Abies concolor</b>				
Apache National Forest AZ US	 2023	92 (V)	22,061	375
<b>Abies fraseri</b>				
Bredsten (Roan Mountain) DK	 2022 - Pending new crop	78 (V)	62,300	875
Moray (Ayers Orchard) UK	 2021 - Pending new crop	71 (V)	65,508	875
<b>Abies grandis</b>				
Valskov F.813 DK	 2019	85	44,559	580
Valskov F.813 DK	2017	63	39,254	500
C.E. Flensborg F.768 DK	2019	81	40,963	485
Meilgaard F.821 DK	2019	67	39,850	485
HkG 83002 DE	2022 - Pending new crop	80 (V)	29,963	485
<b>Abies koreana</b>				
Truust L.126 DK	  2021	96 (V)	94,024	535
Truust L.126 DK	 2021	84 (V)	103,635	400
<b>Abies lasiocarpa</b>				
Laugesen FP.5156 DK	Pending new crop	-	-	-
var. lasiocarpa San Juan, Colorado US	2017	69	52,631	485
<b>Abies nordmanniana</b>				
PS Elite FP.690 DK	  Pending new crop	-	-	267
PS Elite FP.690 DK	 2022 - Pending new crop	98 (V)	13,750	215
PS Elite FP.670 DK	  2022 - Pending new crop	88 (V)	12,610	215
Tveden F.824 DK	 2023 - Pending new crop	81 (V)	9,728	187
Ambrolauri Tlugi GE	  2022 - Pending new crop	98 (V)	13,678	200
Ambrolauri Tlugi GE	 2022 - Pending new crop	90 (V)	15,203	147
Other provenances can be offered on request - Skibelund FP.266, Sønderskovgård FP.246, Silkeborg Nordskov FP.259 etc.				
<b>Abies procera</b>				
C.E. Flensborg FP.623 DK	 2022 - Pending new crop	70 (V)	14,646	230
C.E. Flensborg F.857 DK	 2017 - Pending new crop	58	17,387	175
Bidstrup F.545 DK	 2021	77	21,831	175
<b>Abies sibirica</b>				
Kemerovo RU	2017	50	48,052	400
<b>Cedrus deodara</b>				
GE	2020 - Pending new crop	98	7,612	135
<b>Cedrus libani</b>				
TR	2023	80 (V)	10,899	135
<b>Chamaecyparis lawsoniana</b>				
Jenssen-Buchske F.864 DK	 2021	83 (V)	278,193	735

Name and provenance	Crop year	Germination %	Seed/kg	EUR (kg)
<b>&gt; Cryptomeria japonica</b>				
Bregentved L.267 DK 	2023	68 (V)	188,846	735
<b>Larix decidua</b>				
Tophøj FP.661 DK	2023 - Pending new crop	56 (V)	91,933	2,870
Sudeten CZ	2022	62 (V)	125,931	1,600
HkG 83702 DE	2023	58 (V)	115,383	2,535
<b>Larix eurolepis</b>				
Karensminde FP.675 DK (Holbæk FP.205 copy) 	Pending new crop	-	-	3,070
C.E. Flensborg FP.618 DK (Hybrid-%: 95,8)	2019 - Pending new crop	77	171,808	3,070
Store Lyngdal FP.673 DK (Hybrid-%: 90,4)	2019 - Pending new crop	89 (V)	143,478	3,070
Truust FP.636 DK (Hybrid-%: 81)	2022 - Pending new crop	79 (V)	111,425	2,935
C.E. Flensborg FP.626 DK (Hybrid-%: 93,6)	2019 - Pending new crop	67	118,339	2,935
Laugesen FP.651 DK (Hybrid-%: 98,9)	2019 - Pending new crop	74	149,995	2,935
Mourier-Petersen FP.638 DK (Hybrid-%: 91,5)	2019 - Pending new crop	85	119,841	2,935
<b>Larix kaempferi</b>				
C.E. Flensborg FP.615 DK	2019 - Pending new crop	69	166,949	2,000
C.E. Flensborg FP.601 DK	2017 - Pending new crop	84 (V)	116,175	2,000
Sostrup F.783 DK	2006 - Pending new crop	60	152,088	1,070
<b>Picea abies</b>				
Hofmansgave FP.240 DK	2015	98	93,209	735
C.E. Flensborg FP.631 DK	2019	94	99,699	670
C.E. Flensborg FP.635 DK 	2019	93	104,521	670
Sønderskovgård FP.248 DK 	2019	97	103,028	670
Vitebsk Glubokoe BY	1990	93	142,261	1,210
<b>Picea breweriana</b>				
Rabbit Lake, Oregon US	2013	86	149,250	645
<b>Picea engelmannii</b>				
San Juan Colorado US	2019	95	237,263	470
<b>Picea glauca densata</b>				
Black Hills South Dakota US	2013	87	350,035	540
<b>Picea mariana</b>				
Nova Scotia CA	2013	73	592,800	840
<b>Picea omorika</b>				
Valskov F.854 DK	2019	89	346,500	1,200
<b>Picea pungens</b>				
Kaibab US 	2018	80	224,073	535
Dolores, San Juan 'Royal Blue' US 	2017	98	194,351	535
Rio Grande, Colorado US 	2017	98	234,536	535
Apache Arizona US 	2018	87	225,999	535
<b>Picea sitchensis</b>				
C.E. Flensborg FP.671 DK (QCI, CA) 	2022 - Pending new crop	98	394,812	-
C.E. Flensborg FP.654 DK (Washington, US) 	2022 - Pending new crop	97 (V)	357,463	-
C.E. Flensborg FP.652 DK (Washington, US) 	2022 - Pending new crop	92 (V)	363,952	1,500
C.E. Flensborg FP.625 DK (Washington, US) 	2021	99 (V)	449,549	1,275
C.E. Flensborg FP.625 DK (Washington, US)	2021	99 (V)	438,299	1,075
C.E. Flensborg FP.608 DK (Bella Coola, CA)	2021	91 (V)	360,360	1,075
Bærmosekov FP.256 DK (QCI, CA)	2022	96 (V)	303,568	1,500
Jenssen-Buchske F.865 DK (QCI, CA)	2019	92	392,450	935
Juneau AK US 	2014	88	434,986	935
<b>Pinus contorta</b>				
Galway IE	2023	99	270,492	1,400



Name and provenance	Crop year	Germination %	Seed/kg	EUR (kg)
<b>Pinus mugo</b>				
Værnting Nyskov	2023	99 (V)	101,919	670
Karup DK	2021	97 (V)	116,049	670
Mourier-Petersen DK	2020	94	112,655	670
Truust L.127 DK	2022 - Pending new crop	98	125,316	670
<b>Pinus mugo var. pumilio</b>				
Viuf DK	2021 - Pending new crop	98 (V)	133,977	670
Villanderer IT	2019 - Pending new crop	90	145,443	670
<b>Pinus mugo var. uncinata</b>				
Laugesen F. DK	Pending new crop	-	-	670
<b>Pinus peuce</b>				
Truust L.225 DK	 2021	96 (V)	16,604	270
<b>Pinus ponderosa</b>				
Trout Lake WA US	-	99	29,276	800
<b>Pinus nigra var. austriaca</b>				
Vistoft F.873 DK	Pending new crop	-	-	1,145
Emmedsbo F.415 DK	1997	96	44,133	1,145
<b>Pinus sylvestris</b>				
Hammer Bakker F.881 DK	Pending new crop	-	-	1,270
Lystrup FP.258 DK	2023	99 (V)	144,891	1,270
Toftlund FP.257 DK	2022	94	153,844	1,270
Gurre Vang FP.227	2022	96	144,891	1,270
<b>Pseudotsuga menziesii var. menziesii</b>				
Tophøj FP.659 DK	 2022	98	77,953	2,240
Tophøj FP.659 DK	 2022	98	75,989	2,000
Darrington WA Z403 US	2021 - Pending new crop	97 (V)	80,501	910
La Luzette FR	2020	99 (V)	85,833	2,000
<b>Pseudotsuga menziesii var. glauca</b>				
Lincoln National Forest NM US	-	99 (V)	59,510	1,470
<b>Sequoiadendron giganteum</b>				
WA US	2019 - Pending new crop	43	81,666	1,345
<b>Thuja occidentalis</b>				
Hjorthede L.228 DK H	 2016	72	702,334	670
<b>Thuja plicata</b>				
Bregentved Østerskov F.867 DK	 2023	79 (V)	706,691	935
<b>Tsuga heterophylla</b>				
Hovborg F.879 DK	 2023	92 (V)	416,509	1,470
Harboe L.268 DK	2021 - Pending new crop	92 (V)	379,116	1,200



Name and provenance	Crop year	Germination %	Seed/kg	EUR (kg)
<b>BROAD-LEAVED</b>				
<b>Acer campestre</b>				
Laugesen L.274 DK	 Pending new crop	-	-	105
HU	 2022	53 (V)	6,688	40
<b>Acer platanoides</b>				
Laugesen FP.650 DK	2022 - Pending new crop	92 (V)	4,597	160
Tophøj FP.653 DK	2022 - Pending new crop	90 (V)	5,707	160
Bregentved F.794 DK	2018 - Pending new crop	78 (V)	5,571	150
<b>Acer pseudoplatanus</b>				
Bregentved F.648 DK	2023 - Pending new crop	83 (V)	6,356	135
Havreballe F.871 DK	 2022 - Pending new crop	93 (V)	8,857	135
<b>Alnus glutinosa</b>				
Tophøj FP.653 DK	Pending new crop	-	-	870
Laugesen FP.658 DK	2019 - Pending new crop	76	522,464	870
Truust F.782 DK	2023	91 (V)	474,716	670
<b>Alnus rubra</b>				
Darrington WA US	2018	86 (V)	1,478,596	875
Port Angeles WA US	2018	88 (V)	1,497,517	875
<b>Alnus viridis</b>				
Truust L.214 DK	2021	82 (V)	1,944,263	800
<b>Amelanchier lamarckii</b>				
Truust L.130 DK	2023 - Pending new crop	84 (V)	119,306	940
<b>Amelanchier spicata</b>				
Truust L.215 DK	2023	78 (V)	161,005	670
<b>Aronia melanocarpa</b>				
Truust L.060 DK	2022	93 (V)	389,121	605
NL	2017	98 (V)	270,290	180
<b>Betula pendula</b>				
Truust FP.644 DK	2023	26	1,744,086	240
<b>Betula pubescens</b>				
Truust F.880 DK	 2023	40	1,995,470	335
Truust FP.645 DK	2023	45	1,243,307	240
<b>Calluna vulgaris</b>				
Kongenshus DK	2019	-	3,200,000	200
<b>Carpinus betulus</b>				
Bregentved F.567 DK	2023	83 (V)	16,958	115
<b>Cornus mas</b>				
Kørup DK	2021	99 (V)	4,652	80
<b>Cornus sanguinea</b>				
Truust L.129 DK	2023	99 (V)	16,723	160
<b>Cotoneaster lucidus</b>				
Truust L.261 DK	2023	88 (V)	43,260	670
<b>Crataegus laevigata</b>				
Truust DK	2019 - Pending new crop	82 (V)	17,578	60
<b>Crataegus monogyna</b>				
Tophøj L.269 DK	2023 - Pending new crop	70 (V)	8,653	60
Laugesen L.250 DK	2023 - Pending new crop	69 (V)	7,709	40

Name and provenance	Crop year	Germination %	Seed/kg	EUR (kg)
<b>Cytisus scoparius</b> IT	2018	99 (V)	126,288	110
<b>Euonymus europaeus</b> Truust L.222 DK	2022	99 (V)	33,111	270
<b>Fagus sylvatica</b> Laugesen F.841 DK	Pending new crop	-	-	Daily rate
Bregentved, Grevindeskoven F.509 DK	2022 - Pending new crop	75	3,892	Daily rate
Bregentved, Haslev Orned F.529 DK	2022 - Pending new crop	82	4,059	Daily rate
Maramurens RU	2022 - Pending new crop	88	4,307	Daily rate
<b>Fagus sylvatica purpurea</b> BE	2022 - Pending new crop	95 (V)	3,120	Daily rate
<b>Frangula alnus</b> Truust L.271 DK	2023	99 (V)	42,937	470
<b>Juglans nigra</b> Knuthenborg DK	2022 - Pending new crop	99 (V)	100	16
<b>Lonicera xylosteum</b> Truust L.120 DK	2023 - Pending new crop	99 (V)	261,490	400
<b>Malus sylvestris</b> Truust L.192 DK	2023	99 (V)	44,395	470
<b>Physocarpus opulifolius</b> Truust L.122 DK	2023	99 (V)	1,100,000	800
<b>Prunus avium</b> Tophøj FP.662 DK	2023 - Pending new crop	99 (V)	4,930	135
Truust F.791 DK	2023 - Pending new crop	98 (V)	4,813	100
<b>Prunus cerasifera</b> Truust L.128 DK	2022 - Pending new crop	99 (V)	2,374	40
<b>Prunus spinosa</b> Truust L.218 DK	2023 - Pending new crop	99 (V)	6,511	60
<b>Pyrus pyraeaster</b> Tophøj L.270 DK	2023	97 (V)	46,860	510
<b>Quercus petraea</b> C.E. Flensborg FP.647 DK	2023 - Pending new crop	96 (V)	299	Daily rate
Laugesen Plantage F.856 DK	2023 - Pending new crop	94 (V)	383	Daily rate
Stenholt F.750 DK	2022 - Pending new crop	60 (V)	256	Daily rate
Agder NO	2023 - Pending new crop	79 (V)	242	Daily rate
<b>Quercus robur</b> Truust F.792 DK	2023 - Pending new crop	95 (V)	302	Daily rate
Grevindeskoven FP.801	2023 - Pending new crop	93 (V)	241	Daily rate
Ulstruplund FP.802	Pending new crop	-	-	Daily rate
<b>Quercus rubra</b> C.E. Flensborg F.861 DK	Pending new crop	-	-	Daily rate
Bregentved F.678 DK	2022 - Pending new crop	85 (V)	195	Daily rate
<b>Ribes alpinum</b> Truust L.262 DK	2023	99 (V)	296,072	605
<b>Robinia pseudoacacia</b> Nyirsergi HU	2015	49	39,217	160
HU	2012	59	44,637	90

Name and provenance	Crop year	Germination %	Seed/kg	EUR (kg)
> <b>Rosa canina</b> Truust L.217 DK	2023	93 (V)	54,386	110
<b>Rosa carolina</b> Truust L.062 DK	2023	59 (V)	107,407	110
<b>Rosa dumalis</b> Truust L.022 DK	2021	64 (V)	39,466	110
<b>Rosa multiflora</b> Truust L.224 DK	2023 - Pending new crop	93 (V)	235,838	100
<b>Rosa rubiginosa</b> Truust L.014 DK	2023 - Pending new crop	91 (V)	73,098	110
<b>Rosa spinosissima/pimpinellifolia</b> Truust L.241 DK (high type)	2023 - Pending new crop	58 (V)	25,503	110
Laugesen L.266 DK (low type)	2023 - Pending new crop	94 (V)	79,898	200
<b>Rosa virginiana</b> Truust L.015 DK	2021	82 (V)	165,505	110
<b>Sorbus aucuparia</b> Tophøj L.239 DK	2023 - Pending new crop	85 (V)	326,923	470
Truust L.124 DK	2023 - Pending new crop	99 (V)	366,667	335
<b>Sorbus mougeotti</b> Laugesen L.248 DK	2021	98 (V)	73,128	335
<b>Styrax japonicus</b> Truust L.275 DK	2021 - Pending new crop	97 (V)	9,070	270
<b>Syringa josikaea</b> HU	2012	95 (V)	100,700	400
<b>Tilia cordata</b> MR/72124/24 PL	2023	81 (V)	20,506	115
<b>Tilia platyphyllos</b> Truust FP.643 DK	2023	95 (V)	15,866	150
<b>Ulmus japonica</b> Truust L.272 DK	2021	77 (V)	191,141	135
<b>Viburnum opulus</b> Truust L.012 DK	2023 - Pending new crop	99 (V)	36,349	175
Truust L.242 DK	2023 - Pending new crop	99 (V)	34,185	175