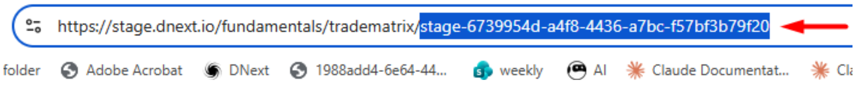
DNEXT API - Code Example - Download a tradeMatrix

Below is a code snippet that can be used to download a tradeflow using the dnext API:

```python
import requests
import pandas as pd
from io import BytesIO
import time
import json


def _get_task_status(task_id, token):
    my_headers = {
        'Authorization': 'Bearer ' + token,
        'Content-Type': 'application/json'
    }

    success = False
    wait_time = 2

    while not success and wait_time < 30:
        time.sleep(wait_time)

        status_res = requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}', headers=my_headers)

        try:
            success = status_res.json()['status'] == 'SUCCEEDED'
        except:
            wait_time += 1
            continue

        if not success:
            wait_time += 1

    if success:
        return True
    else:
        return False


def download_tradeflow(code, token):

    my_headers = {
        'Authorization': 'Bearer ' + token,
        'Content-Type': 'application/json'
    }

    data = {
        'intraflows': {
            'strategy': 'include', # "include" or "exclude" the intraflows
        },
        'forecasts': {
            'strategy': 'include', # "include" or "exclude" the intraflows
            'list': ["forecast_code"] # List of Forecasts loaded in the tradematrix Order by priority
        },
        'row': True,
        'refresh': False,
        'format': 'csv',
    }

    dl_url = f'https://api.dnext.io/v1.0/fundamentals/tradeflows/{code}/download'

    res = requests.post(dl_url, headers=my_headers, data=json.dumps(data))

    task_id = res.json()['task']['id']

    data_ready = _get_task_status(task_id, token)

    if data_ready:
        data_url = res.json()['result']['url']
        data_resp = requests.get(data_url)
        df = pd.read_csv(BytesIO(data_resp.content))

    else:
        df = None

    return df


df = download_tradeflow(<tradeflow_code>, <your_token>)
```

you can fetch the TradeMatrix code from the url directly

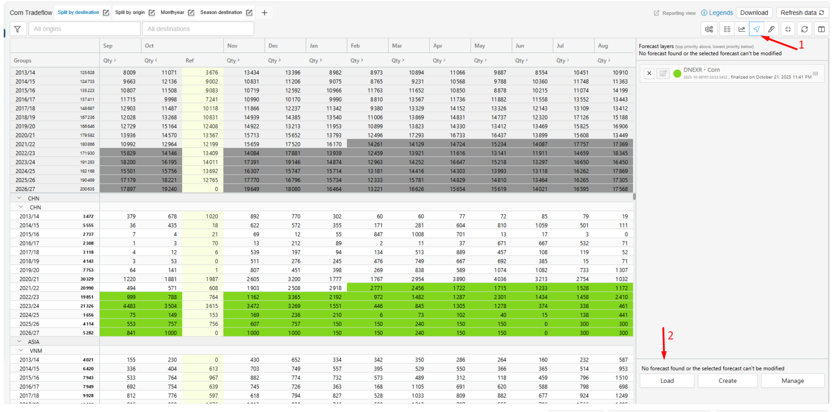


https://stage.dnext.io/fundamentals/tradematrix/stage-6739954d-a4f8-4436-a7bc-f57bf3b79f20

or from the “Code” column in the list of TradeMatrixes

you can fetch the forecast code from the TradeMatrix by following these steps :

1. click on the forecast button on the top right menu in the TradeMatrix
2. click on “Load”



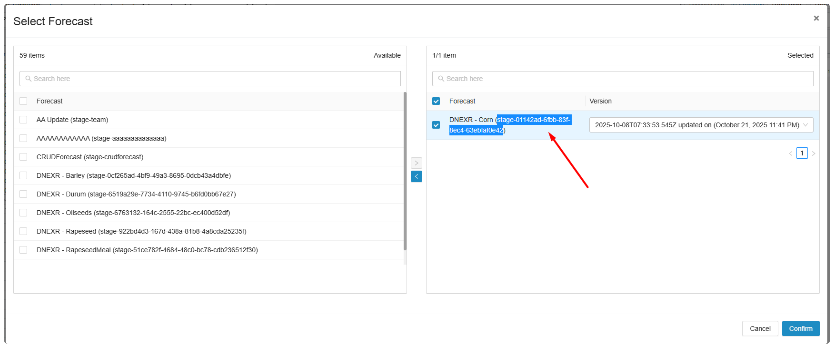
		Sep	Oct		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Groups		Qty ›	Qty ‹	Ref	Qty ›	Qty ›	Qty ›	Qty ›	Qty ›	Qty ›	Qty ›	Qty ›	Qty ›	Qty ›
2013/14	125 628	8 009	11 071	3 676	13 434	13 396	8 982	8 973	10 894	11 066	9 887	8 554	10 451	10 910
2014/15	124 733	9 663	12 136	9 002	10 831	11 206	9 075	8 765	9 231	10 568	9 788	10 360	11 748	11 363
2015/16	135 223	10 807	11 508	9 083	10 719	12 592	10 966	11 763	11 652	10 850	8 878	10 215	11 074	14 199
2016/17	137 411	11 715	9 998	7 241	10 990	10 170	9 990	8 810	13 567	11 736	11 882	11 558	13 552	13 443
2017/18	148 687	12 903	11 487	10 118	11 866	12 237	11 342	9 380	13 329	14 152	13 326	12 143	13 109	13 412
2018/19	167 236	12 028	13 268	10 831	14 939	14 385	13 540	11 006	13 869	14 831	14 737	12 320	17 126	15 188
2019/20	166 646	12 729	15 164	12 408	14 922	13 213	11 953	10 899	13 823	14 330	13 412	13 469	15 825	16 906
2020/21	179 582	13 936	14 570	13 567	15 713	15 652	13 793	12 496	17 293	16 733	16 437	13 899	15 608	13 449
2021/22	180 866	10 992	12 964	12 199	15 659	17 520	16 170	14 261	14 129	14 724	15 234	14 087	17 757	17 369
2022/23	171 930	15 829	14 146	13 409	14 084	17 881	13 939	12 459	13 921	11 616	13 141	11 911	14 659	18 345
2023/24	191 283	18 200	16 195	14 011	17 391	19 146	14 874	12 963	14 252	16 647	15 218	13 297	16 650	16 450
2024/25	182 168	15 501	15 756	13 692	16 307	15 747	15 714	13 181	14 416	14 303	13 993	13 118	16 262	17 869
2025/26	190 489	17 179	18 221	12 765	17 770	16 796	15 734	12 333	15 781	14 829	14 810	13 464	16 265	17 305
2026/27	200 635	17 897	19 240	0	19 649	18 080	16 464	13 221	16 626	15 654	15 619	14 021	16 595	17 568
CHN														
CHN														
2013/14	3 472	379	678	1 020	892	770	302	60	60	77	72	85	79	19
2014/15	5 555	36	435	18	622	572	355	171	281	604	810	1 059	501	111
2015/16	2 737	7	4	21	69	12	55	847	1 008	701	13	17	3	0
2016/17	2 308	1	3	70	13	212	89	2	11	37	671	667	532	71
2017/18	3 118	4	12	6	539	197	94	134	513	889	457	108	119	52
2018/19	4 143	3	53	0	511	276	245	476	749	667	692	385	15	71
2019/20	7 753	64	141	1	807	451	398	269	838	589	1 074	1 082	733	1 307
2020/21	30 329	1 220	1 881	1 987	2 605	3 200	1 777	1 767	2 954	3 890	4 036	3 213	2 754	1 032
2021/22	20 990	494	571	608	1 903	2 508	2 918	2 771	2 456	1 722	1 715	1 233	1 528	1 172
2022/23	19 851	999	788	764	1 162	3 365	2 192	972	1 482	1 287	2 301	1 434	1 458	2 410
2023/24	21 326	4 483	3 504	3 615	3 472	3 269	1 551	446	845	1 305	1 278	374	338	461
2024/25	1 656	75	149	153	169	236	210	6	73	102	40	15	138	441
2025/26	4 114	553	757	756	607	757	150	150	240	150	150	0	300	300
2026/27	5 282	841	1 000	0	1 000	1 000	150	150	240	150	150	0	300	300
ASIA														
VNM														
2013/14	4 021	155	230	0	430	652	334	342	350	286	264	160	232	587
2014/15	6 420	336	404	613	703	749	557	395	529	550	366	365	514	953
2015/16	7 943	533	764	967	882	774	732	573	489	312	118	459	796	1 510
2016/17	7 949	692	754	639	745	726	363	168	1 105	691	620	588	798	698
2017/18	9 928	812	776	597	618	794	827	528	1 033	809	882	677	924	1 249

Forecast layers (top priority above, lowest priority below)
No forecast found or the selected forecast can't be modified

DNEXR - Corn
2025-10-08T07:33:53.545Z , finalized on October 21, 2025 11:41 PM

No forecast found or the selected forecast can't be modified

3. Copy the code within the parentheses that comes after the forecast name in the right panel where the forecasts loaded into the trade matrix are displayed.



Select Forecast

59 items Available

□	Forecast
□	AA Update (stage-team)
□	AAAAAAAAAAAA (stage-aaaaaaaaaaaaaa)
□	CRUDForecast (stage-crudforecast)
□	DNEXR - Barley (stage-0cf265ad-4bf9-49a3-8695-0dcb43a4dbfe)
□	DNEXR - Durum (stage-6519a29e-7734-4110-9745-b6fd0bb67e27)
□	DNEXR - Oilseeds (stage-6763132-164c-2555-22bc-ec400d52df)
□	DNEXR - Rapeseed (stage-922bd4d3-167d-438a-81b8-4a8cda25235f)
□	DNEXR - RapeseedMeal (stage-51ce782f-4684-48c0-bc78-cdb236512f30)

1/1 item Selected

☑	Forecast	Version
☑	DNEXR - Corn (stage-01142ad-6fbb-83f-8ec4-63ebfaf0e42)	2025-10-08T07:33:53.545Z updated on (October 21, 2025 11:41 PM)