

CEFConnect Help Information

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Registration

First time visitors are encouraged to register for cefconnect.com, so you can take advantage of enhanced features on the site. Register on the homepage, either in the upper right hand corner or the right hand side of the screen. You'll be prompted to enter your First and Last Name, email address, and indicate if you are a Financial Adviser or Individual Investor.

The screenshot shows the CEF Connect homepage. In the top right corner, there is a "First time visitor?" prompt with a "Register now" button highlighted in red. Below the navigation bar, the main heading is "GET CONNECTED. The Source for CEF Investors". To the right, a dark box contains the registration form titled "Become a Member for Free Portfolio Tools!". The form includes input fields for "First Name", "Last Name", and "Email Address", and a "Continue" button. The "Register now" button in the top right is also highlighted in red.

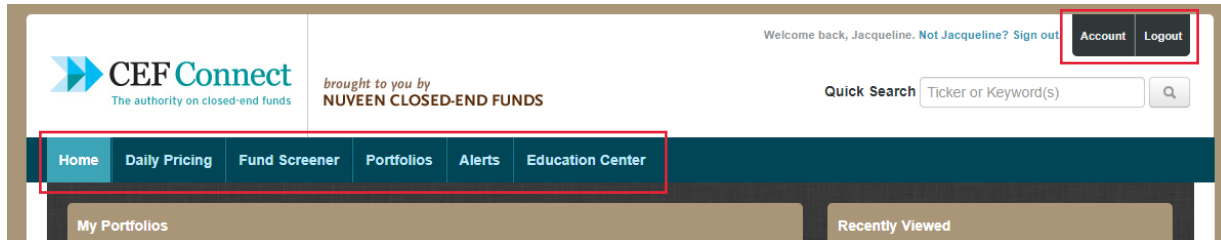
Logging into your Account

Returning users to CEFConnect can login through the upper right hand corner of the page using the Login button. If you are accessing through a personal computer, you can select "Keep me logged in" and you'll automatically be logged into your account on future visits to the site.

The screenshot shows the CEF Connect login page. In the top right corner, there is a "First time visitor?" prompt with a "Login" button highlighted in red. Below the navigation bar, the main heading is "CEFCConnect Portfolios". The login form includes input fields for "Email Address" and "Password", a "Keep me logged in" checkbox (highlighted in red), and a "Login" button. Below the form, there are links for "Not registered? Register here." and "Forgot your password?". The "Login" button in the top right is also highlighted in red.

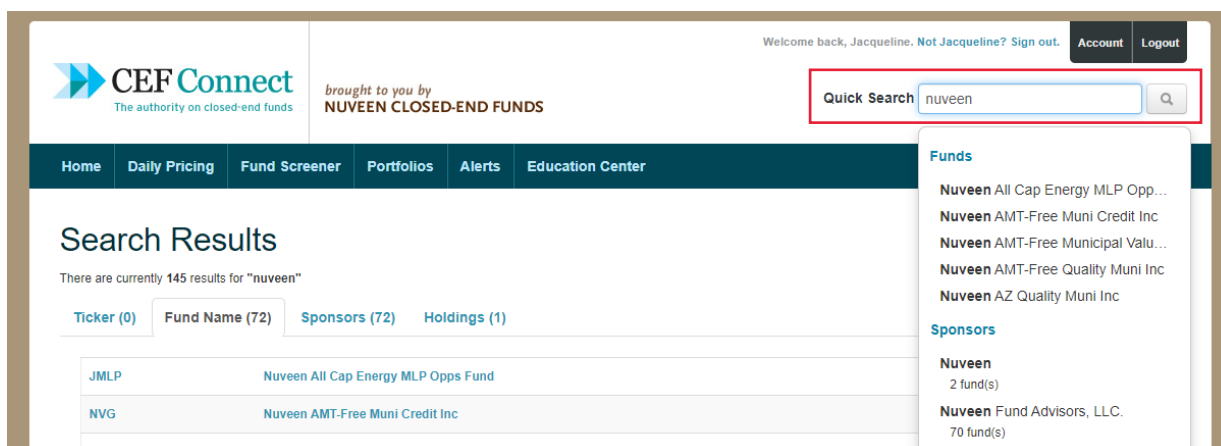
Navigation

Use the buttons across the top of the page (Home, My Portfolios, Daily Pricing, Fund Screener, Education Center) to navigate the main sections of the site. Use the buttons in the upper right hand side (My Account, My Alerts, Logout) to access your account information and set alerts.



Quick Search

Quick Search will search for the characters you type in, looking first for the ticker symbols, followed by fund names, fund sponsors, and holdings. The first tab with results in it will be shown. Hit the enter key or search icon to produce all the results, or select from the names that appear in the dropdown underneath the Quick Search box.



Homepage

This is your starting point for using Nuveen's CEF Connect. Once logged in, you'll see tiles for My Portfolios, Recently Viewed, News & Headlines, Quick Sorter, and an announcement box.

The screenshot displays the CEF Connect homepage with the following components:

- Header:** CEF Connect logo (The authority on closed-end funds), brought to you by NUVEEN CLOSED-END FUNDS. User greeting: "Welcome back, Jacqueline. Not Jacqueline? Sign out." with Account and Logout buttons. Quick Search bar for Ticker or Keyword(s).
- Navigation Menu:** Home, Daily Pricing, Fund Screener, Portfolios, Alerts, Education Center.
- My Portfolios:**
 - User: Jackie
 - As of 12/18/2019

Ticker	NAV	Closing Price	Price Change
JRI	\$19.70	\$18.15	\$0.05
ETY	\$12.33	\$12.50	\$0.01
CHI	\$11.02	\$11.04	\$0.00
AFB	\$15.22	\$13.81	-\$0.01
BKN	\$16.35	\$15.43	-\$0.01
NUV	\$10.56	\$10.69	-\$0.01
AFT	\$16.88	\$15.03	-\$0.03
JPC	\$10.43	\$10.32	-\$0.05
- Recently Viewed:**

Ticker	NAV	Closing Price	Price Change
NPV	\$14.94	\$14.58	-\$0.03
NKG	\$14.09	\$12.37	-\$0.07
NCA	\$10.68	\$10.55	-\$0.12
BZM	\$15.41	\$15.03	-\$0.05
- New for You:**

New! CEFConnect Alerts

Visit the new Alerts section:

 - Track changes in distributions, special distributions, and Z-scores
 - More customization
 - Enhanced email functionality

[Get started](#)
- News & Headlines:**
 - "Closed-End Funds" - Google News
 - Manulife Investment Management closes \$1.2 Billion US Real Estate Joint Venture with Harel Insurance Investments & Financial Services Ltd. - PRNewswire 12/19/2019 01:28:00 PM
 - Income Lab Ideas: Analyzing Fixed-Income CEF Distribution Sustainability - Seeking Alpha
- Quick Sorter:**
 - As of 12/18/2019

Ticker	Premium/Discount
FXBY	-33.93%

My Portfolios

Navigate between portfolios by selecting the dropdown menu in the upper left hand corner. Data points can be customized by portfolio by selecting "Choose Data Points." You can sort each column by clicking on column headers. Add funds by selecting "Add Funds."

CEF Connect
The authority on closed-end funds

brought to you by
NUVEEN CLOSED-END FUNDS

Welcome back, Jacqueline. Not Jacqueline? Sign out. Account Logout

Quick Search Ticker or Keyword(s) Q

Home Daily Pricing Fund Screener **Portfolios** Alerts Education Center

Portfolios + NEW PORTFOLIO PLAY GUIDED TOUR MY PORTFOLIOS

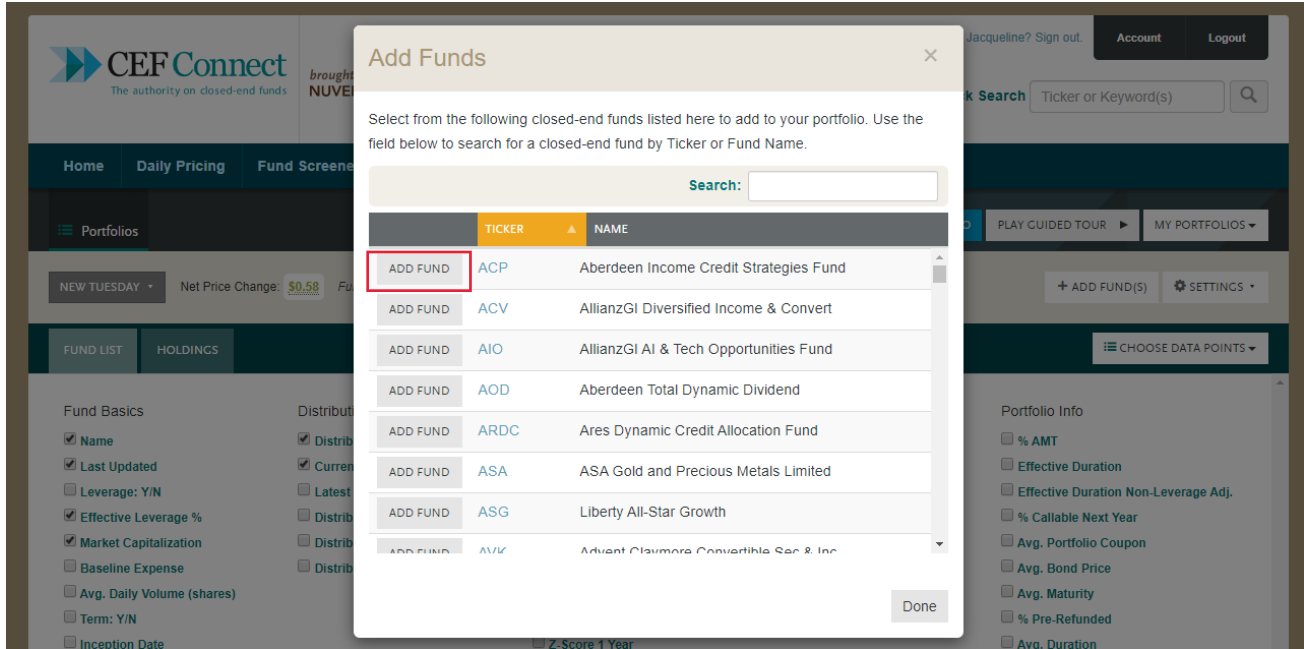
NEW TUESDAY Net Price Change: \$0.58 Fund data as of 12/18/2019 + ADD FUND(S) SETTINGS

FUND LIST HOLDINGS CHOOSE DATA POINTS

TICKER	NAME	LAST UPDATED	EFFECTIVE LEVERAGE %	MARKET CAPITALIZATION	DISTRIBUTION RATE	CURRENT DISTRIBUTION	DISCOUNT / PREMIUM
ADX	Adams Diversified Equity Fund	12/18/2019	0.00%	\$1,660 MM	1.27%	\$0.0500	-11.12%
AEF	Aberdeen Emerging Markets Equity Inc	12/18/2019	8.50%	\$385 MM	2.37%	\$0.0450	-12.57%

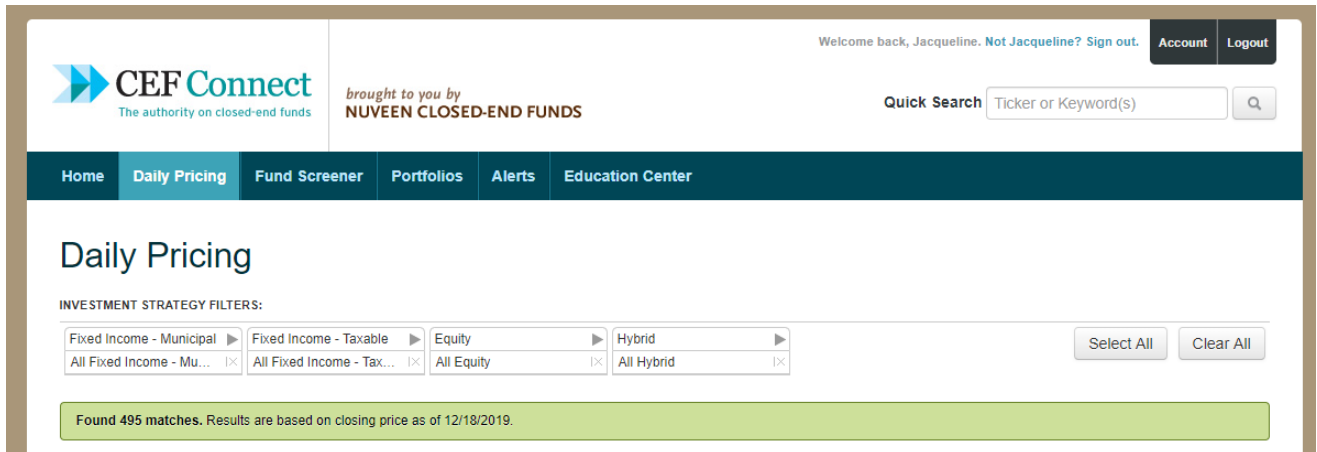
Add Funds

Click the button “Add Funds” to add a fund to your portfolio. A pop up box will appear. Search for the funds you want by ticker symbol or fund sponsor. You can order the data by Ticker Symbol or Fund Name, and alphabetical or reverse alphabetical order; just click the tab. Then click the Add button next to the desired fund.



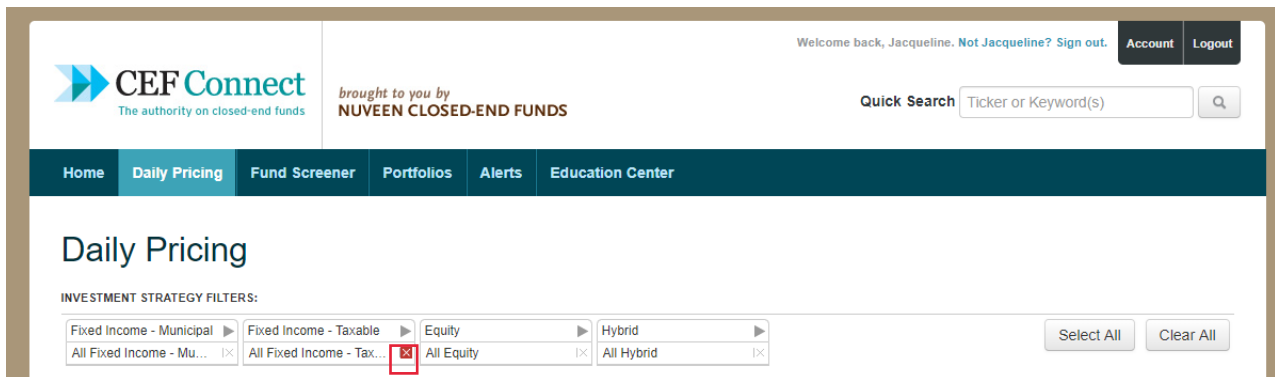
Daily Pricing

When you first select the Daily Pricing tab, all funds will be listed as the default. Investment Strategy filters are Fixed Income- Municipal, Fixed Income- Taxable, Equity, and Hybrid.



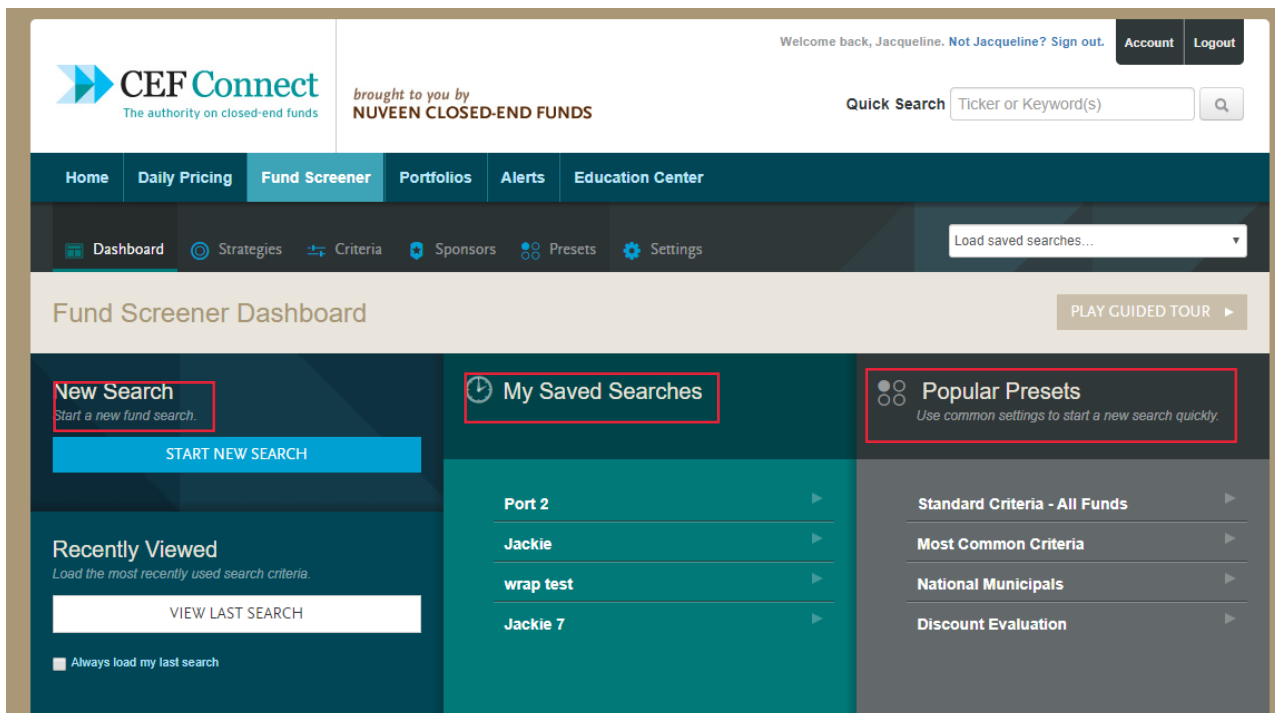
Adding and Removing categories

To remove an entire category, click the red x. The box will only highlight red when your mouse is over it.



Fund Screener

The Fund Screener is the main tool used to help you narrow down funds based on custom criteria. You can select from Popular Presets or “Start New Search.” Or if you’re a returning user, you can select from “My Saved Searches.”



Refining Criteria

You can select criteria to search on from 5 different categories- Fund Basics, Distributions, Pricing, Performance and Portfolio Info. After you've selected your desired criteria, click View Funds at the bottom of the page to see your results.

The screenshot displays the CEF Connect Fund Screener interface. At the top, the user is logged in as Jacqueline. The navigation bar includes Home, Daily Pricing, Fund Screener (active), Portfolios, Alerts, and Education Center. Below the navigation bar, there are options for Dashboard, Strategies, Criteria (highlighted with a red box), Sponsors, Presets, and Settings. A search bar is present with the text "Quick Search" and a placeholder "Ticker or Keyword(s)".

The main section is titled "Fund Criteria" and includes a description: "Closed-end funds can be defined by multiple parameters. You can filter funds by selecting criteria from the five categories below. Once you've selected your basic criteria, you'll be able to further refine their ranges. You can also tap 'Most common data points' to call up common filtering criteria." There are buttons for "MOST COMMON DATA POINTS" and "CLEAR CATEGORIES".

The criteria selection panel on the left shows the following categories and their counts:

- Fund Basics: 2
- Distributions: 2
 - Distribution Rate
 - Distribution Amount
 - Latest Earnings Per Share
 - Distribution Type
 - Distribution Frequency
 - Distribution Rate on NAV
- Pricing: 1
- Performance: 0
- Portfolio Info: 0

The main content area displays four filter panels, each with a range selection and an "ADVANCED VIEW" button:

- Effective Leverage %**: Range selections available: UNDER 20%, 20% - 30%, 30% - 35%, OVER 35%.
- Baseline Expense**: Range selections available: UNDER 1.0%, 1.0% - 1.5%, 1.5% - 2.0%, OVER 2.0%.
- Distribution Rate**: Range selections available: UNDER 5%, 5% - 7%, 7% - 9%, OVER 9%.
- Distribution Frequency**: Range selections available: MONTHLY, QUARTERLY, SEMI-ANNUAL, ANNUAL.

At the bottom, a teal banner states "17 Funds Found!" and includes the text: "Based on your strategy, criteria, and sponsor selections we have found 17 funds. You may narrow your screening scope by making further filter selections or click 'View funds' to update the funds table." There are buttons for "RESET FUND SCREENER" and "VIEW FUNDS" (highlighted with a red box).

Small text at the bottom of the page reads: "CEFconnect.com makes data for the universe of closed-end funds available as a courtesy to its users. This material is not intended to be relied upon as investment advice or recommendations, does not constitute a solicitation to buy or sell securities and should not be considered specific legal, investment or tax advice. This site does not list all the risks associated with each fund. Investors should contact a fund's sponsor for fund-specific risk information and/or contact a financial advisor before investing. Some income from 'Tax-Free Income' funds may be subject to state and local taxes and the alternative minimum tax. Capital gains, if any, will be subject to capital gains tax. NAV returns are net of expenses, and assume reinvestment of distributions."

nel-1

Compare Funds

Using the check boxes next to the results in Fund Screener, you can select up to 5 funds to compare.

17 Funds Found! Results are based on closing price as of 12/18/2019

RESET FUND SCREENER SHOW / HIDE SUMMARY **COMPARE FUNDS (6/5)**

✓	PORTFOLIOS	TICKER	EFFECTIVE LEVERAGE %	BASELINE EXPENSE	DISTRIBUTION RATE	DISTRIBUTION FREQUENCY	DISCOUNT / PREMIUM
<input checked="" type="checkbox"/>	2	FAX	31.59%	--	7.75%	Monthly	-11.98%
<input checked="" type="checkbox"/>	1	FCO	29.19%	--	10.43%	Monthly	1.26%
<input checked="" type="checkbox"/>	0	BLW	24.84%	--	7.39%	Monthly	-6.90%
<input type="checkbox"/>	0	BWG	33.14%	--	6.24%	Monthly	-13.13%
<input type="checkbox"/>	0	DSL	30.52%	--	9.25%	Monthly	-0.26%

Alerts

Registered users can sign up for daily alerts on funds of your choosing. They will be emailed to your email address.

Home Daily Pricing Fund Screener Portfolios **Alerts** Education Center

My Alerts

Alerts will be emailed once a day, based on closing prices and NAVs from the previous day, or the most recent NAV. Most funds update NAVs daily.

Send Alert Emails To: **Update** 5 / 40 Alerts Used **+ NEW ALERT**

* Current values are as of 12/18/2019

ACTIVE	TICKER	SCENARIO	ORIGINAL ALERT VALUE	CURRENT VALUE *	LAST TRIGGERED	ACTIONS
<input checked="" type="checkbox"/>	JPC	Premium / Discount falls to 5.00% or below	-4.98%	-1.05%	12/19/19	Edit Remove
<input checked="" type="checkbox"/>	JRI	Special Distribution occurs	--	--	--	Edit Remove
<input checked="" type="checkbox"/>	JRI	Premium / Discount falls to 10.00% or below, or rises to 18.00% or above	--	-7.87%	12/19/19	Edit Remove
<input checked="" type="checkbox"/>	JRI	Price rises to \$16.00 or more	\$17.71	\$18.15	12/19/19	Edit Remove
<input type="checkbox"/>	NUV	Premium / Discount falls to 0.00% or below	--	1.23%	--	Edit Remove

DEACTIVATE ALL **REMOVE ALL**

My Alerts

To create a new alert, click on “New Alert.” Then type in a fund ticker, select a datapoint and scenario. Current data for the fund will appear in the left column.

My Alerts

Alerts will be emailed once a day, based on closing prices and NAVs from the previous day, or the most recent NAV. Most funds update NAVs daily.

Send Alert Emails To: 5 / 40 Alerts Used

* Current values are as of 12/18/2019

Current Data

Current info for NUV as of 12/19/2019

52 Week High Low:

Price ▲ \$10.71 ▼ \$9.20

Discount ▲ 1.23% ▼ -7.70%

NAV ▲ \$10.72 ▼ \$9.97

Alert Details

Fund Ticker Data point Scenario

nuv --- ---

Price

Premium / Discount

Regular Distribution

Special Distribution

Z-Score 3 Month

Z-Score 6 Month

Z-Score 1 Year

NUV Premium / Discount falls to 0.00% or below 1.23% -- Edit Remove

DEACTIVATE ALL REMOVE ALL

Closed-end fund historical distribution sources have included net investment income, realized gains, and return of capital. For more detailed information on the distributions of a

Fund Details

Each fund has a dedicated page with more detailed information. Tabs include: Overview, Fund Basics, Distributions, Pricing Information, Performance, Portfolio Characteristics, and All.

If the fund is in a portfolio, the portfolio name will appear underneath the fund. To add to a portfolio, click Add to Portfolio and select the desired portfolio.

Home Daily Pricing Fund Screener Portfolios Alerts Education Center

Nuveen Credit Opp 2022 Target Term:JCO

Print View Add to Portfolios 0 Alerts active Manage Alerts

All Overview Fund Basics Distributions Pricing Information Performance Portfolio Characteristics

Overview

Overview

The overview section shows information regarding current pricing and distributions, as well as a price and NAV chart and a link to interactive charting.

Fund Basics

This section contains information regarding the fund’s capital structure including leverage detail, expenses, vital signs such as inception date, current price and NAV, portfolio manager, whether the fund has a target term or an ongoing tender offer feature, and average daily trading volume. This tab also includes links to that fund’s SEC filings and the fund sponsor’s website. In most cases, the fund sponsor link will go directly to that fund’s information on the sponsor website.

Distributions

This section shows the last year’s distributions in chart and tabular format, as well as key information to help understand the context and portfolio characteristics that are commonly used to assess the “health” of a fund’s current distribution.

Pricing Information

This tab section contains averages and a chart for premium/discount through time, as well as a table of specific price, NAV, and premium/discount values. The table displays daily data for a month at a time, just select a start date.

Performance

This section contains price and NAV performance, as well as price and NAV performance for the fund’s peer group. The most recent years are shown in charts, while the last 20 years are available in tables.

Portfolio Characteristics

This section shows top holdings, sectors, asset allocations, and portfolio characteristics such as maturity and credit breakdowns, as appropriate to that fund’s strategy.

All

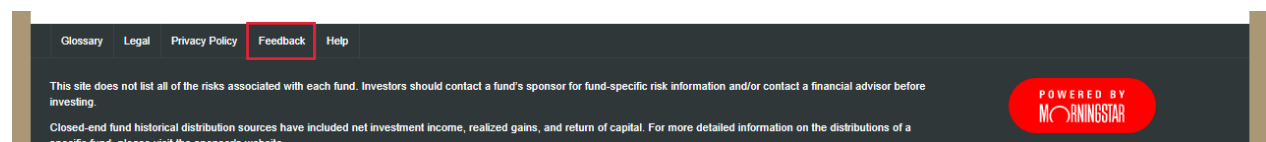
The All tab combines all section onto one page.

Education Center

Visit the Education Center to learn more about closed-end funds. There is information available for all levels of investors – from beginners to experienced investors.

Feedback

For questions or comments on CEFConnect, you can share feedback by clicking the feedback link located at the bottom of the page.



The footer contains a navigation bar with links for Glossary, Legal, Privacy Policy, Feedback, and Help. Below the navigation bar is a disclaimer: "This site does not list all of the risks associated with each fund. Investors should contact a fund’s sponsor for fund-specific risk information and/or contact a financial advisor before investing." To the right of the disclaimer is the Morningstar logo with the text "POWERED BY MORNINGSTAR". Below the disclaimer is a note: "Closed-end fund historical distribution sources have included net investment income, realized gains, and return of capital. For more detailed information on the distributions of a specific fund, please visit the sponsor’s website."