

NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP /DC/  
 Form 424B3  
 February 19, 2019

Filed Under Rule 424(b)(3), Registration Statement No. 333-221261  
 Pricing Supplement Number 478 Dated Tuesday, February 19, 2019  
 (To: Prospectus Dated November 1, 2017 and Prospectus Supplement Dated November 3, 2017)

CUSIP Number	Principal Amount	Selling Price	Gross Concession	Net Proceeds	Coupon Type	Coupon Rate	Coupon Frequency	Maturity Date	1st Coupon Date	1st Coupon Amount
63743FH74	100%	100%	1.250%		Fixed	3.050%	MONTHLY	02/15/2024	03/15/2019	\$1.44

Redemption Information: Non-Callable

CUSIP Number	Principal Amount	Selling Price	Gross Concession	Net Proceeds	Coupon Type	Coupon Rate	Coupon Frequency	Maturity Date	1st Coupon Date	1st Coupon Amount
63743FH82	100%	100%	1.800%		Fixed	3.500%	MONTHLY	02/15/2029	03/15/2019	\$1.65

Redemption Information: Non-Callable

National Rural Utilities Cooperative Finance Corp	Offering Dates: Tuesday, February 19, 2019 through Monday, February 25, 2019  Trade Date: Monday, February 25, 2019 @12:00 PM ET Settlement Date: Thursday, February 28, 2019 Minimum Denomination/Increments:\$1,000.00/\$1,000.00	National Rural Utilities Cooperative Finance Corp Prospectus Dated November 1, 2017
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Initial trades settle flat and clear SDFS: DTC Book Entry  
only  
DTC number: 0235 via RBC Dain Rauscher Inc.

Agents: Incapital, LLC, Citigroup, J.J.B. Hilliard, W.L.  
Lyons, Inc., Wells  
Fargo Advisors, RBC Capital Markets

If the maturity date or an interest payment date for any note  
is not a Business  
Day (as term is defined in Prospectus), principal, premium,  
if any, and interest  
for that note is paid on the next Business Day, and no  
interest will accrue from,  
and after, the maturity date or interest payment date.

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#### Material U.S. Federal Income Tax Considerations

The disclosure in the Prospectus Supplement dated November 3, 2017 (the "Prospectus Supplement") relating to the Prospectus dated November 1, 2017 (the "Base Prospectus" and together with the Prospectus Supplement the "Prospectus") in the section titled "Material U.S. Federal Income Tax Considerations" beginning on page S-26 under the subsection titled "General" on page S-26 is amended and restated as follows:

#### "General

This section summarizes the material U.S. tax considerations to holders of the notes. However, the discussion is limited in the following ways:

The discussion only covers you if you buy your notes in the initial offering of a particular issuance of notes.

The discussion only covers you if you hold your notes as a capital asset (generally, for investment purposes), your functional currency is the U.S. dollar (if you are a U.S. holder) and you do not have a special tax status, such as an accrued basis taxpayer subject to special rules as a result of your use of financial statements.

The discussion does not cover tax consequences that depend upon your particular tax situation in addition to your ownership of the notes, such as your holding the notes in connection with a hedging, straddle or conversion transaction. We suggest that you consult your tax advisor about the consequences of holding the notes in your particular situation.

The discussion does not cover you if you are a partner in a partnership (or an entity treated as a partnership for U.S. tax purposes). If a partnership holds the notes, the tax treatment of a partner will generally depend upon the status of the partner and upon the activities of the partnership. If you are a partner of a partnership holding the notes, we suggest that you consult your tax advisor.

The discussion is based on current law. Changes in the law may change the tax treatment of the notes.

The discussion does not cover state, local or foreign law, and, except for the U.S. federal estate tax consequences discussed below with respect to Non-U.S. holders, does not cover any U.S. federal tax consequences other than income tax consequences.

This discussion does not cover the Medicare tax that may be imposed on the "net investment income" of U.S. holders that are individuals, estates or trusts.

The discussion does not cover every type of notes that we might issue. If we intend to issue notes of a type not described in this summary, additional tax information will be provided in the prospectus supplement for the notes.

We have not requested a ruling from the IRS on the tax consequences of owning the notes. As a result, the IRS could disagree with portions of this discussion.

If you are considering buying notes, we suggest that you consult your tax advisors about the tax consequences of holding the notes in your particular situation."

The disclosure in the Prospectus Supplement in the section titled "Material U.S. Federal Income Tax Considerations" beginning on page S-26 in the subsection titled "Tax Consequences to Non-U.S. Holders" under the caption titled "Withholdable Payments to Foreign Financial Entities and Other Foreign Entities on the Notes" on page S-33 is amended and restated as follows:

"The Foreign Account Tax Compliance Act ("FATCA") imposes a U.S. federal withholding tax of 30% on certain payments to foreign financial institutions and other non-U.S. persons that fail to comply with information reporting requirements in respect of their direct and indirect U.S. shareholders and/or U.S. accountholders. FATCA withholding currently applies to payments of interest on notes. Under certain circumstances, a Non-U.S. holder might be eligible for refunds or credits of such taxes. Prospective investors are encouraged to consult with their own tax advisors regarding the possible implication of this legislation on their investment in the notes."