

NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP /DC/  
 Form 424B3  
 July 18, 2016

**Filed Under Rule 424(b)(3), Registration Statement No. 333-199914**  
**Pricing Supplement Number 425 Dated Monday, July 18, 2016**  
**(To: Prospectus Dated November 6, 2014 and Prospectus Supplement Dated November 10, 2014)**

| CUSIP Number | Principal Amount | Selling Price | Gross Concession | Net Proceeds | Coupon Type | Coupon Rate | Coupon Frequency | Maturity Date | 1 <sup>st</sup> Coupon Date |
|--------------|------------------|---------------|------------------|--------------|-------------|-------------|------------------|---------------|-----------------------------|
| 63743FA30    | []               | 100%          | 2.150%           | []           | Fixed       | 3.000%      | MONTHLY          | 07/15/2029    | 08/15/2016                  |

**Redemption Information: Non-Callable**

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| <p>National Rural Utilities Cooperative Finance Corp</p> | <p>Offering Dates: Monday, July 18, 2016 through Monday, July 25, 2016<br/>                 Trade Date: Monday, July 25, 2016 @ 12:00 PM ET<br/>                 Settlement Date: Thursday, July 28, 2016<br/>                 Minimum Denomination/Increments: \$1,000.00/\$1,000.00<br/>                 Initial trades settle flat and clear SDFS: DTC Book Entry only<br/>                 DTC number: 0235 via RBC Dain Rauscher Inc.</p> <p>Agents: Incapital, LLC, Citigroup, Comerica Securities, J.J.B. Hilliard, W.L. Lyons, Inc., Wells Fargo</p> <p>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.</p> <p><i>InterNotes® is a registered trademark of Incapital Holdings, LLC. All rights reserved.</i></p> | <p>National Rural Utilities Cooperative Finance Corp<br/>                 Prospectus Dated November 6, 2014</p> |
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