Report at the close of business as of the end of fiscal year

This Report is required by law: Section 5(c)(1)(A) of the Bank Holding Company Act (12 U.S.C. § 1844(c)(1)(A)); sections 8(a) and 13(a) of the International Banking Act (12 U.S.C. §§ 3106(a) and 3108(a)); sections 11(a)(1), 25, and 25a of the Federal Reserve Act (12 U.S.C. §§ 248(a)(1), 502, and 611a); and sections 113, 165, 312, 618, and 809 of the Dodd-Frank Act (12 U.S.C. §§ 5361, 5365, 5412, 1850(a)(1), and 5468(b)(1)). Return to the appropriate Federal Reserve Bank the original and the number of copies specified.

NOTE: The Annual Report of Holding Companies must be signed by one director of the top-tier holding company. This individual should also be a senior official of the top-tier holding company. In the event that the top-tier holding company does not have an individual who is a senior official and is also a director, the chairman of the board must sign the report. If the holding company is an ESOP/ESOT formed as a corporation or is an LLC, see the General Instructions for the authorized individual who must sign the report.

I, THOMAS G. CALDWELL
Name of the Holding Company Director and Officer

PRESIDENT/CEO
Title of the Holding Company Director and Officer

attest that the Annual Report of Holding Companies (including the supporting attachments) for this report date has been prepared in conformance with the instructions issued by the Federal Reserve System and are true and correct to the best of my knowledge and belief.

With respect to information regarding individuals contained in this report, the Reporter certifies that it has the authority to provide this information to the Federal Reserve. The Reporter also certifies that it has the authority, on behalf of each individual, to consent or object to public release of information regarding that individual. The Federal Reserve may assume, in the absence of a request for confidential treatment submitted in accordance with the Board's "Rules Regarding Availability of Information," 12 C.F.R. Part 261, that the Reporter and individual consent to public release of all details in the report concerning that individual.

Signature of Holding Company Director and Officer
03/30/2021

Date of Signature

For holding companies not registered with the SEC—indicate status of Annual Report to Shareholders:
- is included with the FR Y-6 report
- will be sent under separate cover
- is not prepared

For Federal Reserve Bank Use Only

RSSID ID
C.I.

Date of Report (top-tier holding company's fiscal year-end):
December 31, 2020
Month / Day / Year

NONE
Reporter's Legal Entity Identifier (LEI) (20 Character LEI Code)

Reporter's Name, Street, and Mailing Address
MIDDLEFIELD BANC CORP.
Legal Title of Holding Company
15985 EAST HIGH ST/PO BOX 35
(Mailing Address of the Holding Company) Street / P.O. Box
MIDDLEFIELD OH 44062
City State Zip Code

Physical Location (if different from mailing address)

Person to whom questions about this report should be directed:
MICHAEL RANITILA SVP FINANCE
Name Title
440-632-8133
Area Code / Phone Number / Extension
440-632-8223
Area Code / FAX Number
MRANITILA@MIDDLEFIELDBANK.COM
E-mail Address
WWW.MIDDLEFIELDBANK.BANK
Address (URL) for the Holding Company's web page

Is confidential treatment requested for any portion of this report submission? Yes
0=No 1=Yes
In accordance with the General Instructions for this report (check only one),
1. a letter justifying this request is being provided along with the report
2. a letter justifying this request has been provided separately

NOTE: Information for which confidential treatment is being requested must be provided separately and labeled "confidential."
Report Item:

1. We are registered with SEC.

2.a. Organizational Chart – See Attached Chart

2.b. Domestic Branch Listing – See Attached

3. See Attached Chart.

4. See Attached Chart.
Results: A list of branches for your depository institution MIDDLEFIELD BANKING COMPANY, THE (ID_RSSD 177920).

This depository institution is held by MIDDLEFIELD BANC CORP (1398740) of MIDDLEFIELD, OH.
The data is as of 12/31/2020. Data reflects information that was received and processed through 01/05/2021.

Reconciliation and Verification Steps
1. In the Data Action column of each branch row, enter one or more of the actions specified below
2. If required, enter the date in the Effective Date column

Actions
OK: If the branch information is correct, enter 'OK' in the Data Action column.
Change: If the branch information is incorrect or incomplete, review the data, enter 'Change' in the Data Action column and the date when this information first became valid in the Effective Date column.
Close: If a branch listed was sold or closed, enter 'Close' in the Data Action column and the sale or closure date in the Effective Date column.
Delete: If a branch listed was never owned by this depository institution, enter 'Delete' in the Data Action column.
Add: If a reportable branch is missing, insert a row, add the branch data, and enter 'Add' in the Data Action column and the opening or acquisition date in the Effective Date column.

If printing this list, you may need to adjust your page setup in MS Excel. Try using landscape orientation, page scaling, and/or legal sized paper.

Submission Procedure
When you are finished, send a saved copy to your FRB contact. See the detailed instructions on this site for more information.

If you are e-mailing this to your FRB contact, put your institution name, city and state in the subject line of the e-mail.

Note
To satisfy the FR Y-10 reporting requirements, you must also submit FR Y-10 Domestic Branch Schedules for each branch with a Data Action of Change, Close, Delete, or Add.
The FR Y-10 report may be submitted in a hardcopy format or via the FR Y-10 Online application - https://y10online.federalreserve.gov.

* FDIC UNINUM, Office Number, and ID_RSSD columns are for reference only. Verification of these values is not required.

<table>
<thead>
<tr>
<th>State</th>
<th>Effective Date</th>
<th>Branch Service Type</th>
<th>Branch ID_RSSD</th>
<th>Popular Name</th>
<th>Street Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
<th>County</th>
<th>Country</th>
<th>FDIC UNINUM</th>
<th>Office Number</th>
<th>Head Office</th>
<th>Head Office ID_RSSD</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>Full Service</td>
<td>177920</td>
<td>MIDDLEFIELD BANC CORP (1398740) of MIDDLEFIELD, OH</td>
<td>MIDDLEFIELD BANKING COMPANY, THE</td>
<td>177920</td>
<td>MIDDLEFIELD BANC CORP (1398740) of MIDDLEFIELD, OH</td>
<td>MIDDLEFIELD BANKING COMPANY, THE</td>
<td>177920</td>
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<td>UK</td>
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<td>177920</td>
<td>MIDDLEFIELD BANC CORP (1398740) of MIDDLEFIELD, OH</td>
<td>MIDDLEFIELD BANKING COMPANY, THE</td>
<td>177920</td>
<td>MIDDLEFIELD BANC CORP (1398740) of MIDDLEFIELD, OH</td>
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<td>177920</td>
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</tbody>
</table>
MIDDLEFIELD BANC CORP.
FORM FR Y-6
December 31, 2020

REPORT ITEM 3: Securities Holders
(1)(a)(b)(c) and (2)(a)(b)(c)

<table>
<thead>
<tr>
<th>Current securities holders with ownership, control or holdings of 5% or more with power to vote as of fiscal year ending 12/31/2020</th>
<th>Securities holders not listed in 3(1)(a) through 3(1)(c) that had ownership, control or holdings of 5% or more with power to vote during the fiscal year ending 12/31/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)(a) Names &amp; Address (City, State, &amp; Country)</td>
<td>(1)(b) Country of Citizenship or Incorporation</td>
</tr>
<tr>
<td>Ancora Advisors LLC</td>
<td>USA</td>
</tr>
<tr>
<td>Cleveland, Ohio 44124</td>
<td></td>
</tr>
</tbody>
</table>

(1) Percentage share ownership figure is based on 6,379,323 shares outstanding
(2) Based on information reported in Ancora Advisors' Form 13F filed with the SEC on February 12, 2021 and Ancora Advisors' Schedule 13D filed with the SEC on August 8, 2019
(3) Ancora Advisors LLC does not hold options, warrants, or other securities or rights to acquire voting securities
## REPORT ITEM 4: INSIDERS

(1) (2) (3)(a)(b)(c) and 4(a)(b)(c)

<table>
<thead>
<tr>
<th>Names &amp; Address (City, State, &amp; Country)</th>
<th>Principal Occupation if other than with Bank Holding Company</th>
<th>Title &amp; Position with Holding Company</th>
<th>Title &amp; Position with Subsidiary (include names of subsidiaries)</th>
<th>Title &amp; Position with Other Businesses (include names of other businesses)</th>
<th>Percentage of Voting Shares in Holding Company</th>
<th>Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)</th>
<th>List Names of Other Companies (includes partnerships) If 25% or more of voting securities are held (List names of companies and percentage of voting securities held)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas W. Bevan</td>
<td>Attorney</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>Partner Bevan &amp; Associates, LPA, Inc.</td>
<td>0.79%</td>
<td>None</td>
<td>See Confidential Exhibit</td>
</tr>
<tr>
<td>Thomas G. Caldwell</td>
<td>N/A</td>
<td>President &amp; CEO</td>
<td>President &amp; CEO Middlefield Banking Co</td>
<td>Director Middlefield Banking Co</td>
<td>0.73%</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>James R. Heslop, II</td>
<td>N/A</td>
<td>Executive VP, COO &amp; Director</td>
<td>Executive VP, COO &amp; Director Middlefield Banking Co</td>
<td>N/A</td>
<td>0.43%</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Kenneth E. Jones</td>
<td>Retired</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>N/A</td>
<td>0.14%</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Darryl E. Mast</td>
<td>Retired</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>N/A</td>
<td>0.54%</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>James J. McCaskey</td>
<td>President McCaskey Landscape &amp; Design LLC</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>President McCaskey Landscape &amp; Design LLC</td>
<td>0.14%</td>
<td>None</td>
<td>100%</td>
</tr>
<tr>
<td>Clayton W. Rose, III</td>
<td>Retired</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>N/A</td>
<td>0.25%</td>
<td>None</td>
<td>See Confidential Exhibit</td>
</tr>
<tr>
<td>William J. Skidmore</td>
<td>Retired</td>
<td>Chairman Board of Directors</td>
<td>Chairman Board of Directors Middlefield Banking Co</td>
<td>N/A</td>
<td>0.29%</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Donald L. Stacy</td>
<td>N/A</td>
<td>Treasurer &amp; CFO</td>
<td>N/A</td>
<td>N/A</td>
<td>0.12%</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>(1)Names &amp; Address (City, State, &amp; Country)</td>
<td>(2) Principal Occupation if other than with Bank Holding Company</td>
<td>(3)(a) Title &amp; Position with Holding Company</td>
<td>(3)(b) Title &amp; Position with Subsidiary (include names of subsidiaries)</td>
<td>(3)(c) Title &amp; Position with Other Businesses (include names of other businesses)</td>
<td>(4)(a) Percentage of Voting Shares in Holding Company</td>
<td>(4)(b) Percentage of Voting Shares in Subsidiaries (include names of subsidiaries)</td>
<td>(4)(c) List Names of Other Companies (includes partnerships) If 25% or more of voting securities are held (List names of companies and percentage of voting securities held)</td>
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<tr>
<td>Robert W. Toth</td>
<td>Retired</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>N/A</td>
<td>0.98%</td>
<td>None</td>
<td>N/A</td>
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<tr>
<td>Chardon, OH USA</td>
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<tr>
<td>Carolyn J. Turk</td>
<td>Senior Internal Auditor</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>Senior Internal Auditor Molded Fiber Glass Company</td>
<td>0.47%</td>
<td>None</td>
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<tr>
<td>Orwell, OH USA</td>
<td>Molded Fiber Glass Company</td>
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<tr>
<td>Michael C. Voinovich</td>
<td>Chief Investment Officer ECHO</td>
<td>Director</td>
<td>Director Middlefield Banking Co</td>
<td>Director Anchor Bancorporation, Inc. Anchor, Illinois</td>
<td>0.14%</td>
<td>None</td>
<td>N/A</td>
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<tr>
<td>Cleveland Heights, OH USA</td>
<td>ECHO</td>
<td></td>
<td></td>
<td>Director Anchor State Bank Anchor, Illinois Chief Investment Officer &amp; EVP ECHO</td>
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<td></td>
<td>Director GBank Financial Holdings, Inc. Las Vegas, Nevada</td>
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<td>Director Bank of George Las Vegas, Nevada</td>
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<td></td>
<td>Director RSI Solutions, LLC Beachwood, Ohio</td>
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</tbody>
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