



2015 Risk Practices Survey Summary Report

MAR 2015 | RESEARCH

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About Bank Director

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EXECUTIVE SUMMARY

In the wake of high-profile cyberattacks and data breaches last year at JPMorgan Chase & Co., Sony Pictures Entertainment Inc., Home Depot Inc., Kmart and eBay Inc., bank leaders say that cybersecurity is the risk category that concerns them most, according to Bank Director's 2015 Risk Practices Survey, sponsored by FIS. Eighty-two percent of respondents, which include bank chief executives, chief risk officers and directors, cite this as a top concern for the second year in a row, and anxiety about the issue is even more heightened: When asked the same question in last year's survey, 51 percent of respondents cited cybersecurity.

Half say that preparing for a potential cyberattack is one of the biggest risk management challenges facing their bank. But while high profile attacks may be raising the blood pressure of bank CEOs, other senior executives and individual directors, this hasn't yet translated into more focus by bank boards. Less than 20 percent say cybersecurity is reviewed at every board meeting, and 51 percent of risk committees do not review the bank's cybersecurity plan. Most banks allocated less than 1 percent of revenues to cybersecurity in 2014.

In addition to cybersecurity, the 2015 Risk Practices Survey explores how bank leaders govern risk and address the related challenges they face. A total of 149 directors and senior executives of U.S. banks with more than \$500 million in assets participated in the survey, which was conducted online in January.

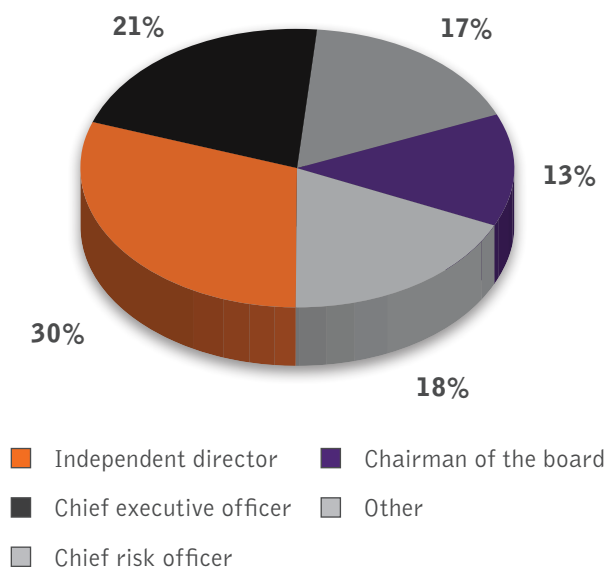
Key Findings:

- Risk expertise matters, and respondents from institutions with a chief risk officer, indicated by 90 percent, and at least one risk expert on the board, by two-thirds, report a higher return on equity and return on assets.
- Eighty-two percent believe there is room for improvement in the bank's enterprise risk management (ERM) program.
- Fifty-eight percent report their bank has a risk appetite statement, and an additional 27 percent plan to implement one within the next 12 months. Of those who have one, 84 percent say the board reviews the risk appetite statement just once a year.
- Creating a culture that supports bank-wide risk communication and assessment is a key challenge, according to 43 percent, up 18 percentage points from last year's survey. Sixty-two percent provide regular board training on risk issues, and a little more than half train all employees on risk. Just 21 percent communicate the risk appetite statement to all employees.
- Seventy-three percent believe their board needs more training and education on emerging risks, such as cybersecurity or Unfair, Deceptive or Abusive Acts or Practices (UDAAP) risks.
- Almost two-thirds report that their bank employs a full-time chief information security officer. For those banks that don't, the role often falls on the chief information officer.
- A significant percentage of banks rely on their vendors to keep themselves—and their customers—safe: 44 percent of respondents reveal a heavy dependence, and half a moderate dependence, on vendors for cybersecurity.
- Seventy-nine percent say their bank increased its cybersecurity budget for fiscal year 2015, most by less than 10 percent. The majority of banks, at 60 percent, dedicated less than 1 percent of revenues to cybersecurity in FY 2014.

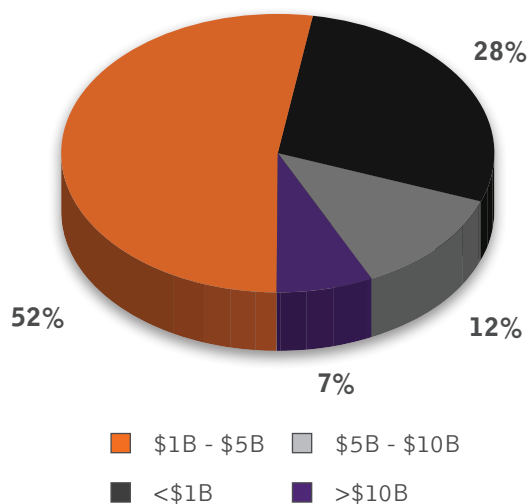
ABOUT THE SURVEY

Bank Director's 2015 Risk Practices Survey, sponsored by FIS, surveyed 149 independent directors and senior executives of U.S. banks with more than \$500 million in assets to examine risk management practices and governance trends, as well as how banks govern and manage cybersecurity risk. The survey was conducted online in January 2015. Forty-three percent of participants serve as an independent director or chairmen at their bank. Twenty-one percent are CEOs, and 17 percent serve as the bank's chief risk officer. Eighty percent represent institutions with between \$500 million and \$5 billion in assets.

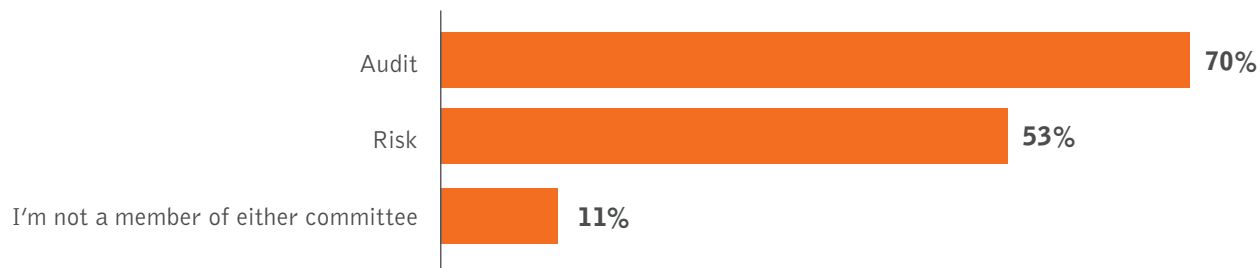
Title Breakdown



Size of Bank



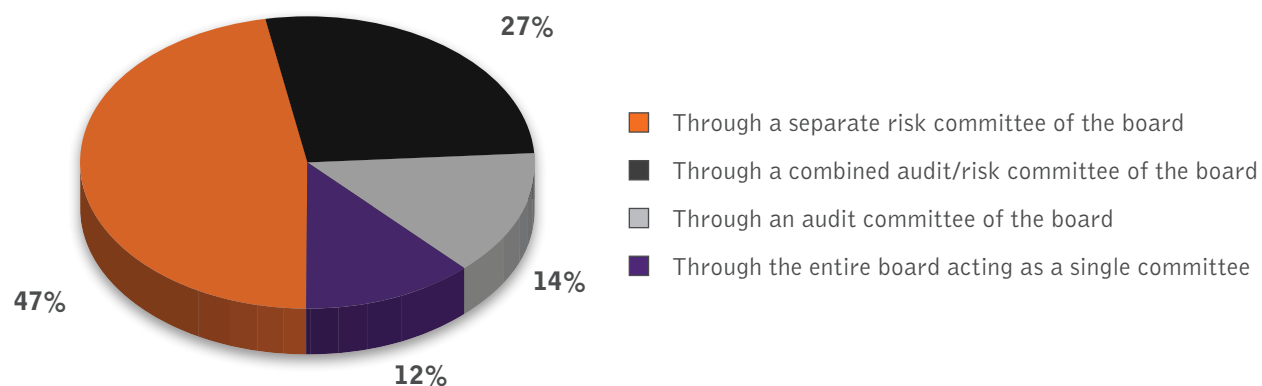
Board Committee Membership



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Median return on equity (ROE)	9.6	9.0	9.2	8.5	9.0
Median return on assets (ROA)	1.1	1.1	1.0	0.8	1.0

RISK GOVERNANCE

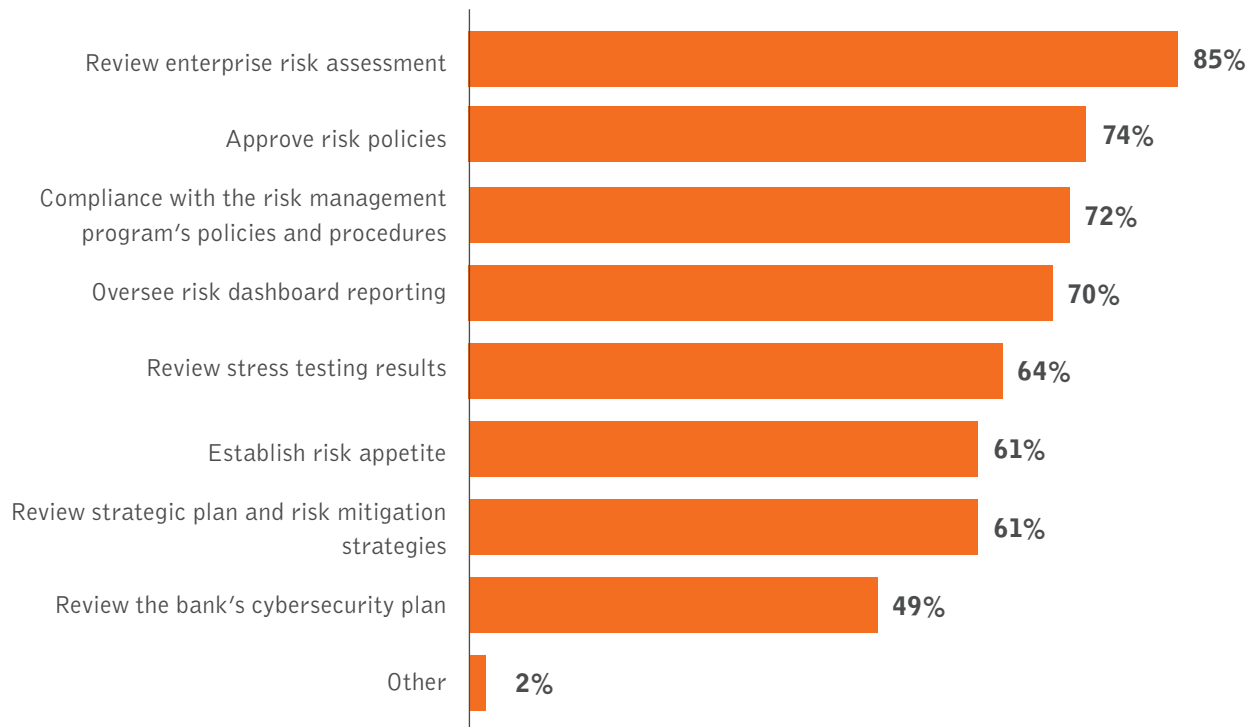
1. How does the board at your bank primarily handle risk governance?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Through a separate risk committee of the board	91%	81%	42%	27%	47%
Through a combined audit/risk committee of the board	9%	12%	32%	30%	27%
Through an audit committee of the board	-	-	15%	21%	14%
Through the entire board acting as a single committee	-	6%	11%	21%	12%

2. Concerning the committee that governs risk, what is that committee's responsibility for risk governance?

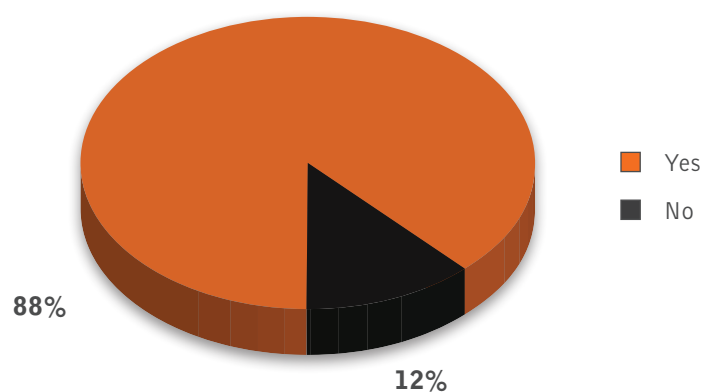
Respondents were asked to select all that apply.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Review enterprise risk assessment	100%	88%	86%	76%	85%
Approve risk policies	91%	56%	72%	82%	74%
Compliance with the risk management program's policies and procedures	82%	75%	72%	68%	72%
Oversee risk dashboard reporting	82%	94%	66%	62%	70%
Review stress testing results	91%	69%	65%	53%	64%
Establish risk appetite	91%	62%	55%	65%	61%
Review strategic plan and risk mitigation strategies	64%	75%	51%	74%	61%
Review the bank's cybersecurity plan	64%	38%	45%	59%	49%
Other	18%	-	1%	-	2%

How is risk governed in committee?	Audit/risk committee	Entire board	Audit committee	Risk committee	Total
Review enterprise risk assessment	86%	50%	72%	98%	85%
Approve risk policies	78%	75%	44%	80%	74%
Compliance with the risk management program's policies and procedures	81%	56%	56%	75%	72%
Oversee risk dashboard reporting	69%	44%	39%	87%	70%
Review stress testing results	53%	69%	56%	72%	64%
Establish risk appetite	56%	56%	22%	77%	61%
Review strategic plan and risk mitigation strategies	67%	81%	22%	62%	61%
Review the bank's cybersecurity plan	53%	44%	39%	51%	49%
Other	3%	-	-	3%	2%

3. Does your bank have a chief risk officer or someone who has been officially designated with responsibility for overseeing the bank's risk management program?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	100%	100%	92%	71%	88%
No	-	-	8%	29%	12%

Financial Performance	Median ROE	Median ROA
Yes	9.2	1.0
No	7.3	0.8

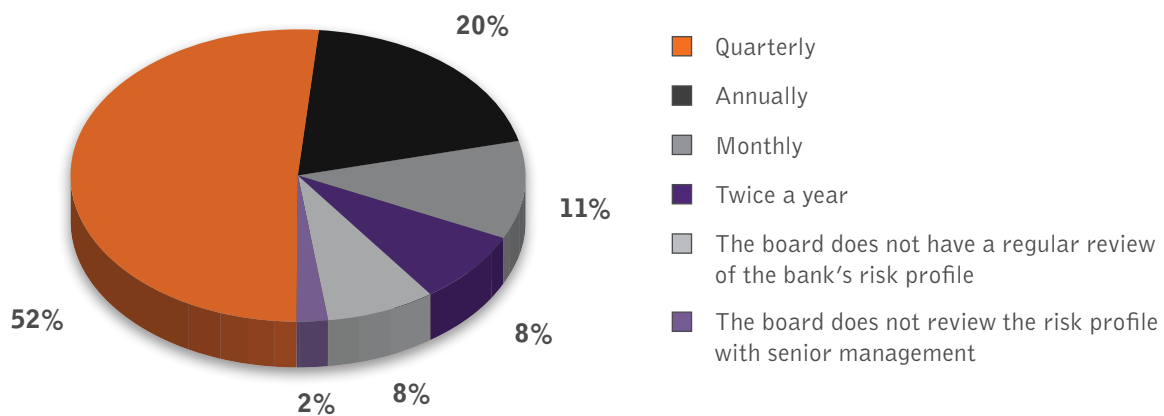
4. How often do the following meet with the chief risk officer or equivalent?

BOARD					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Every board meeting	60%	50%	48%	39%	47%
Quarterly	10%	17%	24%	39%	25%
Irregularly	20%	8%	10%	9%	11%
Annually	-	25%	10%	4%	9%
Never	-	-	4%	9%	4%
Twice a year	10%	-	4%	-	3%

RISK COMMITTEE					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Quarterly	40%	67%	72%	70%	67%
Every board meeting	60%	33%	18%	13%	23%
Never	-	-	6%	4%	4%
Twice a year	-	-	2%	9%	3%
Irregularly	-	-	2%	4%	2%

AUDIT COMMITTEE					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Quarterly	30%	33%	68%	83%	63%
Every board meeting	30%	50%	20%	4%	21%
Irregularly	30%	8%	4%	-	6%
Never	10%	8%	4%	4%	5%
Twice a year	-	-	-	9%	2%
Annually	-	-	4%	-	2%

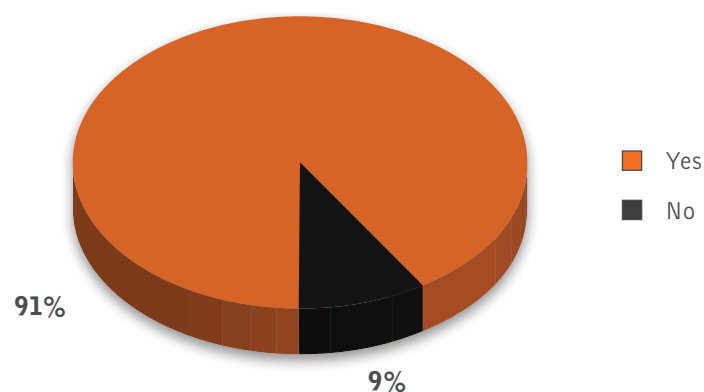
5. How often does the board review the bank's risk profile and related metrics with senior management?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Quarterly	73%	38%	53%	52%	52%
Annually	-	19%	24%	18%	20%
Monthly	9%	19%	8%	12%	11%
Twice a year	9%	19%	8%	-	8%
The board does not have a regular review of the bank's risk profile	9%	6%	6%	12%	8%
The board does not review the risk profile with senior management	-	-	1%	6%	2%

6. As a director, do you believe you are appropriately informed on the risks facing your institution?

Only independent directors and chairmen were asked to respond.

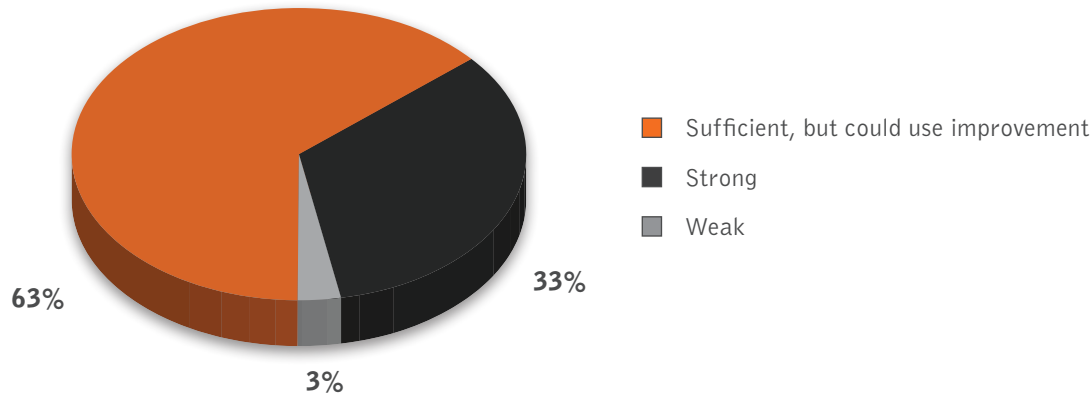


7. Where do you see an opportunity to be better informed of the risks facing your institution?

Respondents were asked to select all that apply. Only independent directors and chairmen who answered 'no' to the previous question were asked to respond.



8. How would you assess the board's overall knowledge of risk management?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Sufficient, but could use improvement	27%	60%	66%	74%	63%
Strong	64%	40%	33%	19%	33%
Weak	9%	-	1%	7%	3%

9. As relates to risk expertise, in what areas do you feel the board could most benefit from education and training?

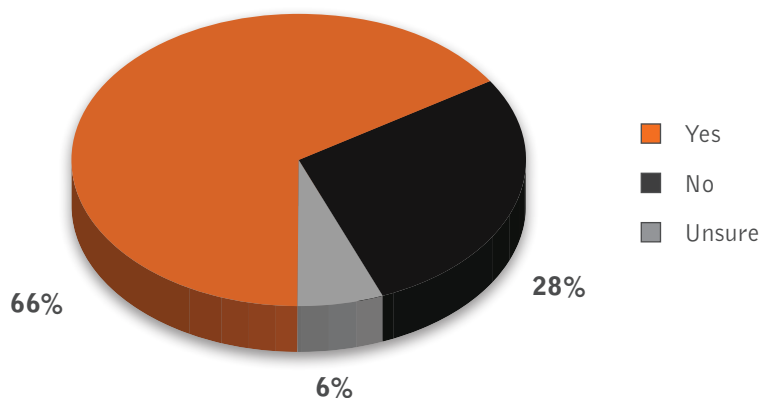
Respondents were asked to select all that apply.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Understanding emerging risks such as cybersecurity or Unfair, Deceptive and Abusive Acts or Practices (UDAAP) risks	73%	64%	77%	68%	73%
Understanding how other banks oversee risk and industry risk oversight best practices	45%	71%	54%	68%	59%
Understanding new regulations that impact the bank and pose risk	55%	36%	50%	50%	49%
Understanding key risk indicators (KRIs) and how to use the intelligence for risk oversight	27%	36%	49%	54%	46%
Overseeing the bank's risk appetite	9%	43%	43%	54%	42%
Incorporating the strategic plan into the enterprise risk assessment	36%	29%	47%	39%	42%
Understanding risk in different products	27%	50%	39%	46%	41%
Using the risk dashboard for strategy adjustments or risk mitigation decisions	-	29%	36%	29%	30%
Using stress test results in risk oversight	-	36%	17%	21%	19%

Bank Asset Size	Officers	Directors	Total
Understanding emerging risks such as cybersecurity or Unfair, Deceptive and Abusive Acts or Practices (UDAAP) risks	71%	76%	73%
Understanding how other banks oversee risk and industry risk oversight best practices	50%	67%	59%
Understanding new regulations that impact the bank and pose risk	47%	54%	49%
Understanding key risk indicators (KRIs) and how to use the intelligence for risk oversight	47%	41%	46%
Overseeing the bank's risk appetite	43%	43%	42%
Incorporating the strategic plan into the enterprise risk assessment	41%	44%	42%
Understanding risk in different products	31%	48%	41%
Using the risk dashboard for strategy adjustments or risk mitigation decisions	28%	31%	30%
Using stress test results in risk oversight	19%	19%	19%

10. Does your board have at least one member that you would consider to be an expert on risk as relates to financial institutions?

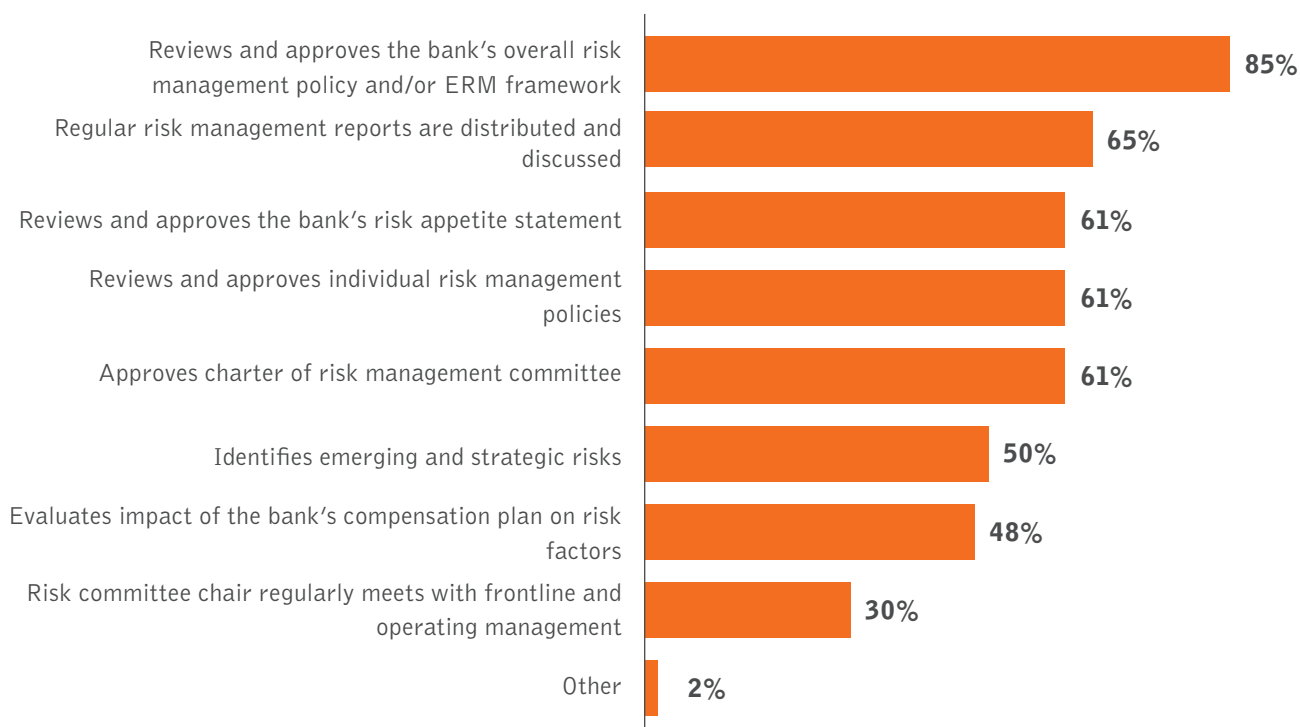


Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	100%	80%	69%	39%	66%
No	-	20%	24%	54%	28%
Unsure	-	-	7%	7%	6%

Financial Performance	Median ROE	Median ROA
Yes	9.2	1.0
No	9.0	0.9

11. What does the board at your bank do to “set the tone from the top” or establish a risk management culture within the bank?

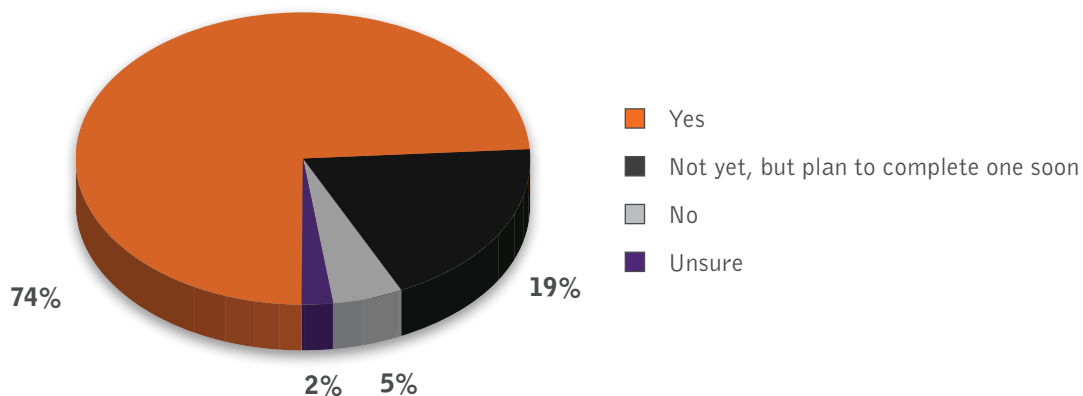
Respondents were asked to select all that apply.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Reviews and approves the bank's over-all risk management policy and/or ERM framework	100%	93%	81%	81%	85%
Regular risk management reports are distributed and discussed	82%	80%	59%	67%	65%
Reviews and approves the bank's risk appetite statement	100%	80%	49%	67%	61%
Reviews and approves individual risk management policies	73%	60%	63%	52%	61%
Approves charter of risk management committee	100%	73%	59%	44%	61%
Identifies emerging and strategic risks	36%	47%	54%	48%	50%
Evaluates impact of the bank's compensation plan on risk factors	73%	73%	41%	41%	48%
Risk committee chair regularly meets with frontline and operating management	55%	13%	31%	26%	30%
Other	-	-	3%	4%	2%

MONITORING RISK

12. Has the bank completed a formal enterprise risk assessment to identify all inherent and residual risks that it faces?



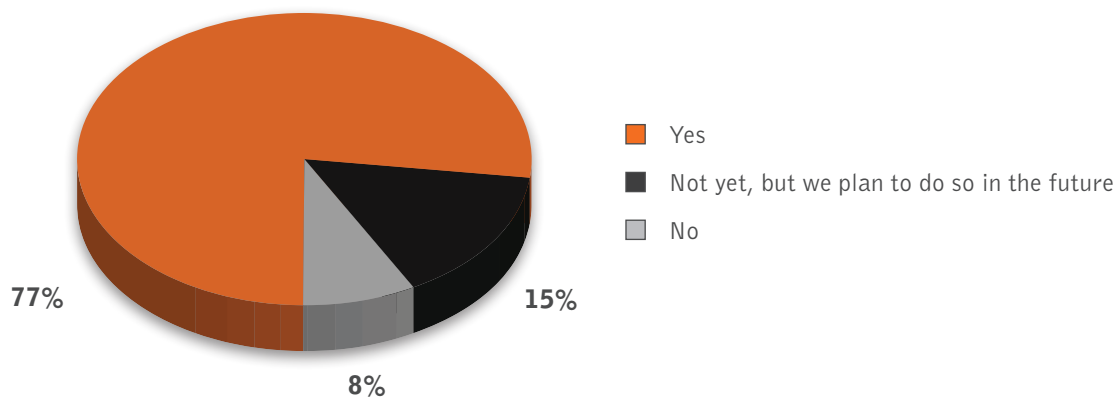
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	100%	80%	69%	75%	74%
Not yet, but plan to complete one soon	-	20%	24%	11%	19%
No	-	-	3%	14%	5%
Unsure	-	-	4%	-	2%

Financial Performance	Median ROE	Median ROA
Yes	9.2	1.0
Not yet, but plan to complete one soon	8.2	0.8
No	*	*

*Sample size > 10.

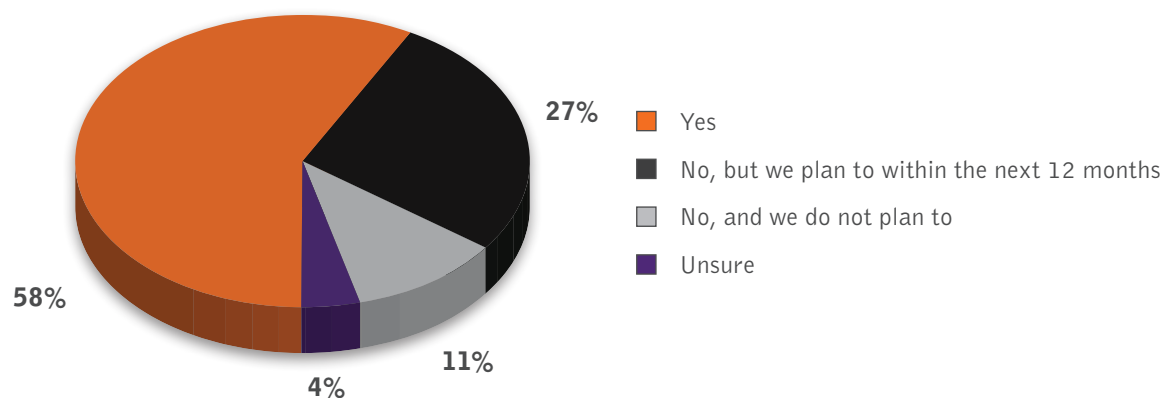
13. Has the bank incorporated the strategic plan and corporate objectives into the risk assessment?

Only respondents who indicated that the bank has completed a risk assessment were asked to respond.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	82%	75%	75%	80%	77%
Not yet, but we plan to do so in the future	9%	17%	17%	15%	15%
No	9%	8%	8%	5%	8%

14. Does the bank have a risk appetite statement?

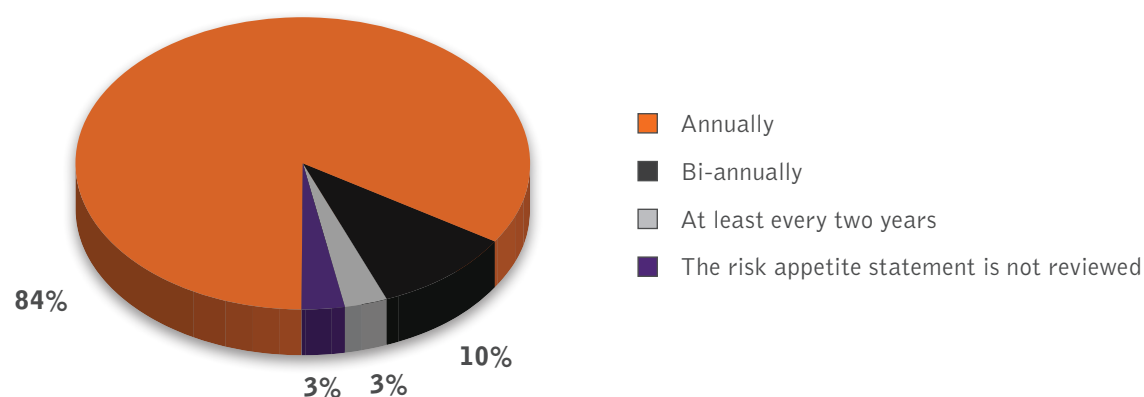


Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	91%	86%	48%	57%	58%
No, but we plan to within the next 12 months	-	14%	34%	25%	27%
No, and we do not plan to	-	-	13%	14%	11%
Unsure	9%	-	4%	4%	4%

Financial Performance	Median ROE	Median ROA
Yes	10.0	1.0
No, but we plan to within the next 12 months	8.0	0.8
No, and we do not plan to	8.5	1.0

15. How often does the board review your bank's risk appetite statement?

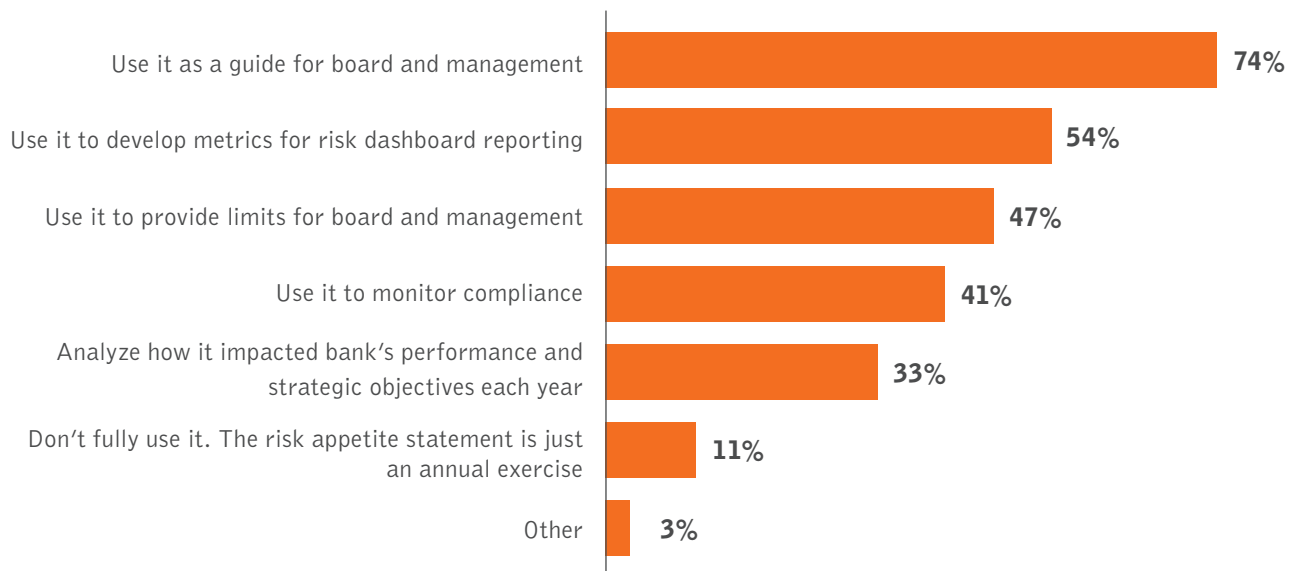
Only respondents who indicated that the bank has a risk appetite statement were asked to respond.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Annually	90%	83%	88%	75%	84%
Bi-annually	10%	8%	6%	19%	10%
At least every two years	-	-	6%	-	3%
The risk appetite statement is not reviewed	-	8%	-	6%	3%

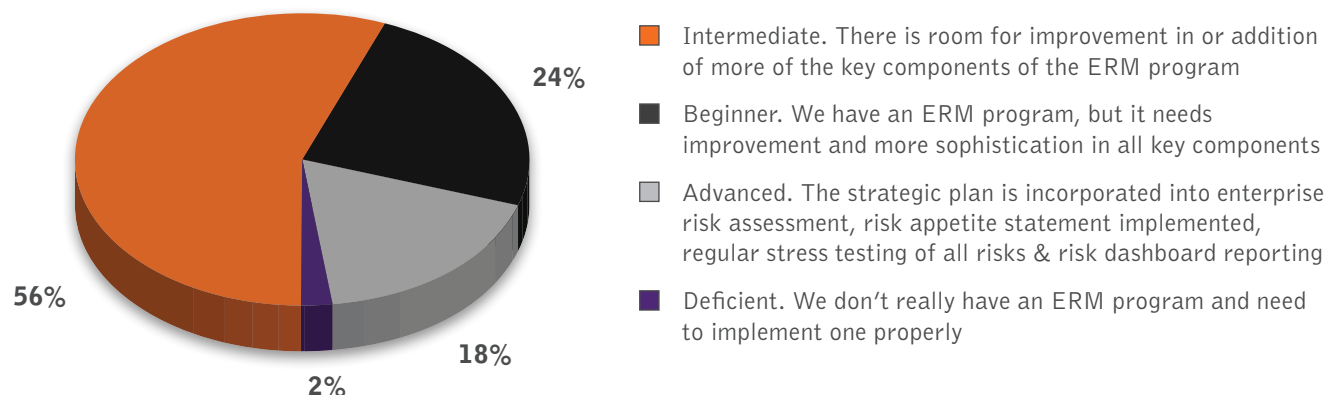
16 How does your board use the bank's risk appetite statement?

Respondents were asked to select all that apply. Only respondents who indicated that the bank has a risk appetite statement were asked to respond.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Use it as a guide for board and management	60%	92%	72%	75%	74%
Use it to develop metrics for risk dashboard reporting	90%	50%	41%	62%	54%
Use it to provide limits for board and management	80%	58%	41%	31%	47%
Use it to monitor compliance	70%	33%	34%	44%	41%
Analyze how it impacted bank's performance and strategic objectives each year	40%	25%	34%	31%	33%
Don't fully use it. The risk appetite statement is just an annual exercise	10%	8%	12%	12%	11%
Other	10%	-	3%	-	3%

17. Which of the following best describes the maturity level of your bank's enterprise risk management (ERM) program?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Intermediate	45%	54%	60%	52%	56%
Beginner	9%	8%	24%	41%	24%
Advanced	45%	38%	15%	4%	18%
Deficient	-	-	1%	4%	2%

Financial Performance	Median ROE	Median ROA
Advanced	9.8	1.0
Intermediate	9.8	1.0
Beginner	8.5	0.8
Deficient	*	*

*Sample size > 10.

18. What are your bank's three biggest risk management challenges?

Respondents were asked to select no more than three.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Keeping up with regulatory expectations of risk management practices	82%	54%	60%	56%	61%
Preparing for cyberattacks	45%	46%	53%	48%	50%
Maintaining the technology and data infrastructure to support risk decision-making	45%	62%	51%	33%	48%
Creating a culture that supports bank-wide risk communication and assessment	55%	23%	43%	48%	43%
Clearly defining the institution's risk tolerances	18%	23%	43%	44%	39%
Having the in-house risk expertise	18%	46%	15%	33%	23%
Making a financial commitment to technology, consulting or training	27%	23%	15%	15%	17%

19. Looking at the overall organization, what elements do you incorporate into the bank's culture to support risk management?

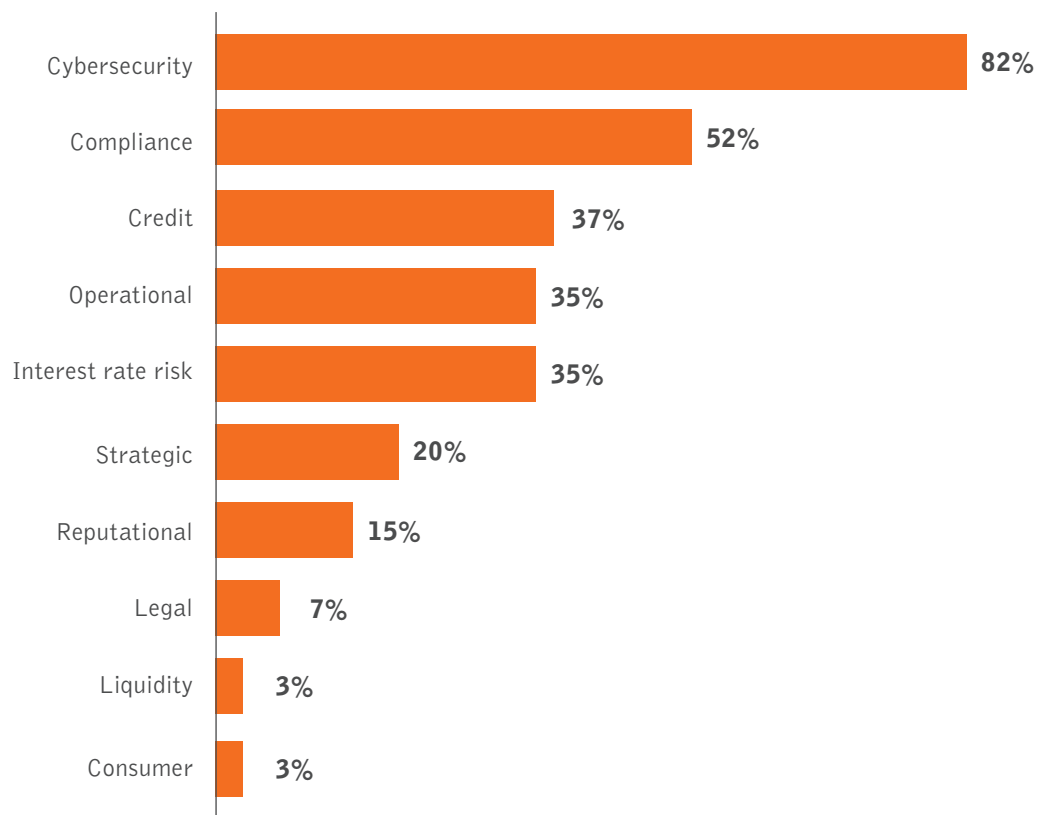
Respondents were asked to select all that apply.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Regular board training on risk issues	50%	38%	73%	52%	62%
Strategic plan based on risk assessment and risk appetite statement	80%	38%	51%	67%	56%
All employees trained on risk	40%	46%	55%	48%	51%
Chairman and/or risk committee chair regularly meets with line management	70%	8%	45%	48%	44%
Compensation linked to risk management performance	40%	31%	31%	30%	32%
Risk appetite statement communicated to all employees	30%	23%	19%	19%	21%
Other	10%	-	1%	-	2%

20. With respect to your bank, what risk categories are you most concerned about?

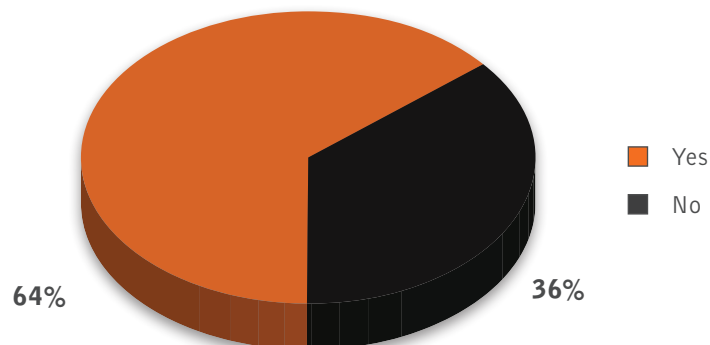
Respondents were asked to select no more than three.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Cybersecurity	82%	77%	84%	78%	82%
Compliance	45%	69%	43%	70%	52%
Credit	-	31%	40%	48%	37%
Operational	36%	38%	37%	30%	35%
Interest rate risk	36%	15%	43%	26%	35%
Strategic	55%	15%	15%	22%	20%
Reputational	18%	-	21%	7%	15%
Legal	-	23%	4%	7%	7%
Liquidity	-	8%	3%	4%	3%
Consumer	18%	8%	1%	-	3%

CYBERSECURITY

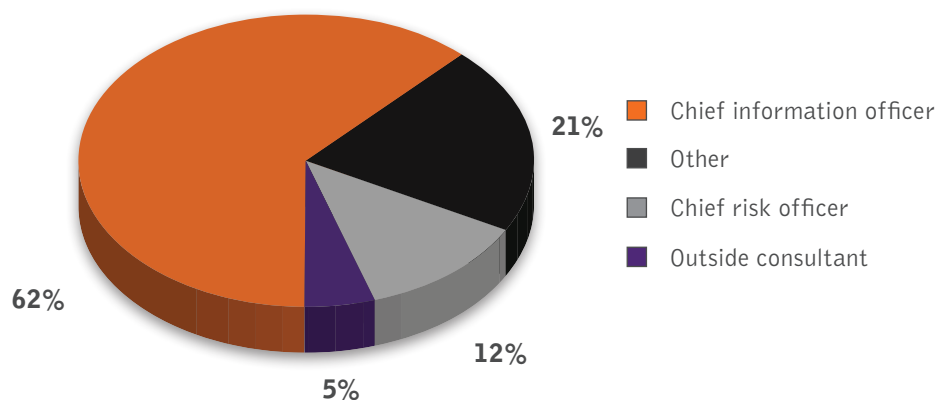
21. Does your bank have a full-time chief information security officer?

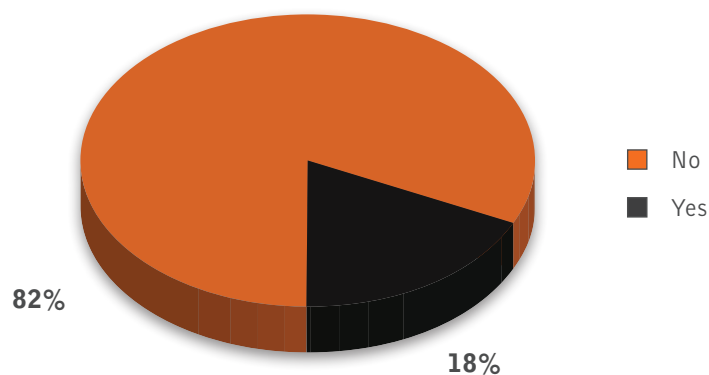


Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	100%	75%	64%	44%	64%
No	-	25%	36%	56%	36%

22. Who handles information security/cybersecurity at your bank?

Only asked of respondents who indicated their bank does not have a full-time chief information security officer.



23. Does your board review cybersecurity at every board meeting?

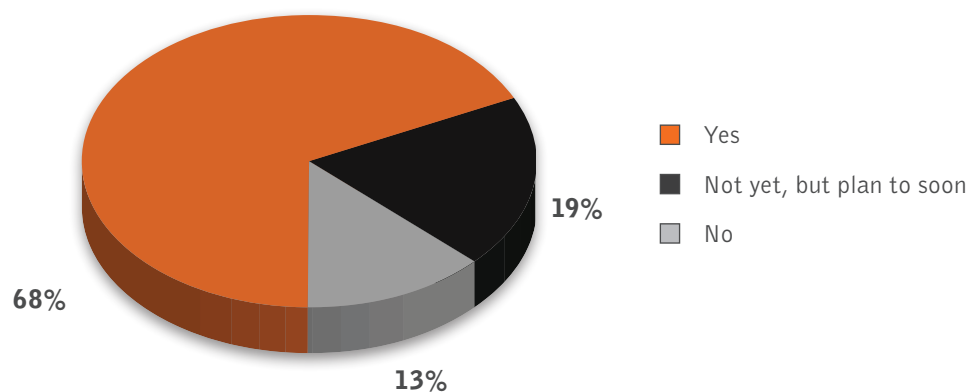
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
No	70%	69%	82%	92%	82%
Yes	30%	31%	18%	8%	18%

24. How would you rate your board's:

CYBER-RISK KNOWLEDGE LEVEL?					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Sufficient, but needs improvement	73%	54%	75%	69%	71%
Weak	18%	23%	21%	23%	21%
Strong	9%	23%	4%	8%	8%

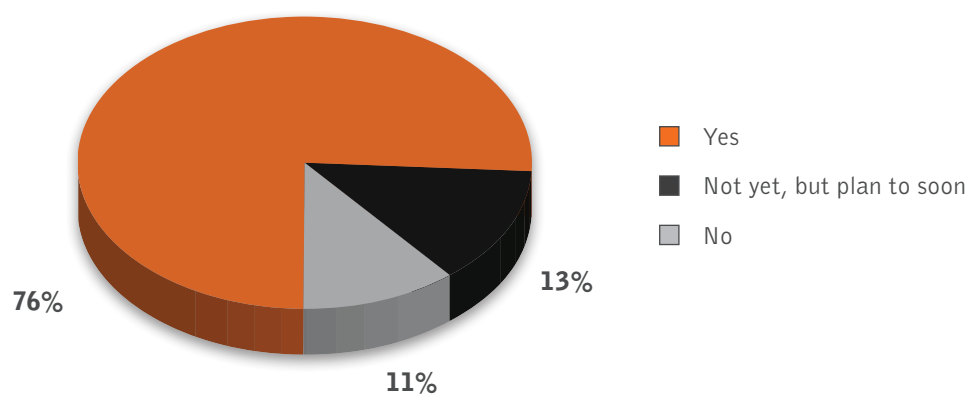
CYBERSECURITY RISK OVERSIGHT?					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Sufficient, but needs improvement	82%	69%	68%	77%	71%
Weak	9%	8%	24%	12%	18%
Strong	9%	23%	9%	12%	11%

25. Has your bank performed a cybersecurity risk assessment and gap analysis in line with FFIEC cybersecurity preparedness expectations?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	73%	85%	63%	70%	68%
Not yet, but plan to soon	18%	15%	25%	7%	19%
No	9%	-	12%	22%	13%

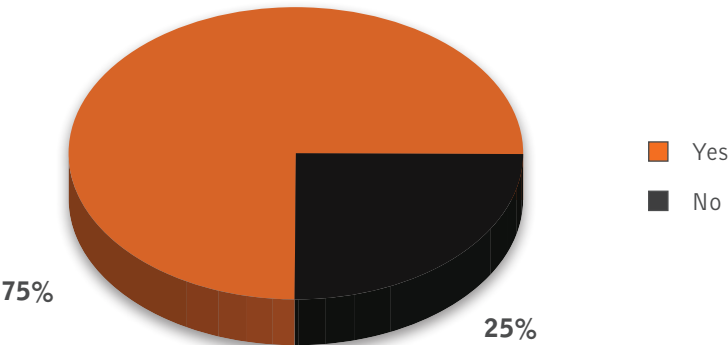
26. Does your bank have a written cyber-incident management and response plan?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	80%	85%	74%	78%	76%
Not yet, but plan to soon	20%	8%	15%	7%	13%
No	-	8%	12%	15%	11%

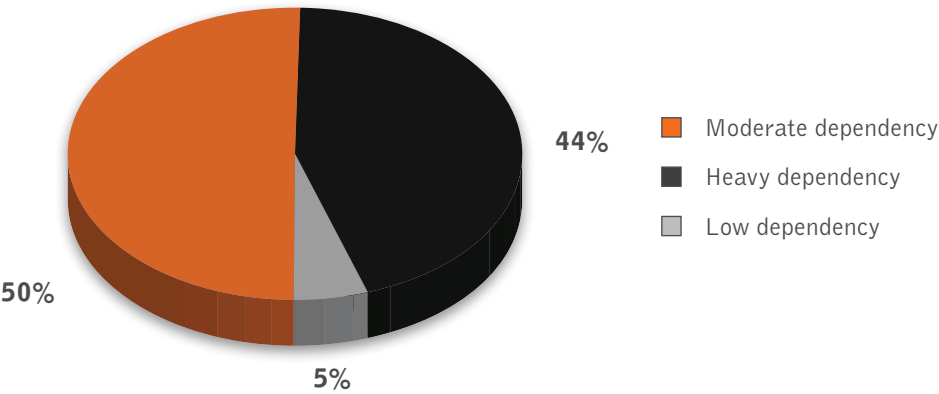
27. Is your bank’s cyber-incident management and response plan regularly tested?

Only asked of respondents who indicated their bank has a cyber-incident management and response plan.



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Yes	75%	73%	73%	80%	75%
No	25%	27%	27%	20%	25%

28. How dependent is your bank on vendors for cybersecurity?



Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Moderate dependency	60%	25%	53%	52%	50%
Heavy dependency	40%	58%	42%	44%	44%
Low dependency	-	17%	5%	4%	5%

29. How would you rate your institution's:

CYBERSECURITY PREVENTATIVE AND DETECTIVE CONTROLS?					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Sufficient, but needs improvement	73%	33%	57%	48%	54%
Strong	27%	67%	42%	52%	45%
Weak	-	-	2%	-	1%

CYBERSECURITY VENDOR OVERSIGHT?					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
Sufficient, but needs improvement	82%	58%	68%	70%	69%
Strong	18%	33%	28%	30%	28%
Weak	-	8%	5%	-	3%

30. When it comes to preparing for a cyberattack or data breach, how prepared is your bank?

Respondents were asked to rate the following factors on a scale of 1 to 5, with 5 indicating the most prepared and 1 indicating the least prepared.

RECEIVING LATEST INTELLIGENCE ON EMERGING THREATS					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
1	-	-	2%	-	1%
2	-	9%	3%	12%	6%
3	30%	9%	31%	36%	30%
4	40%	55%	48%	44%	47%
5	30%	27%	16%	8%	17%

BLOCKING DDOS ATTACKS					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
1	-	-	3%	-	2%
2	-	-	3%	12%	5%
3	20%	9%	25%	16%	21%
4	60%	55%	59%	68%	61%
5	20%	36%	10%	4%	12%

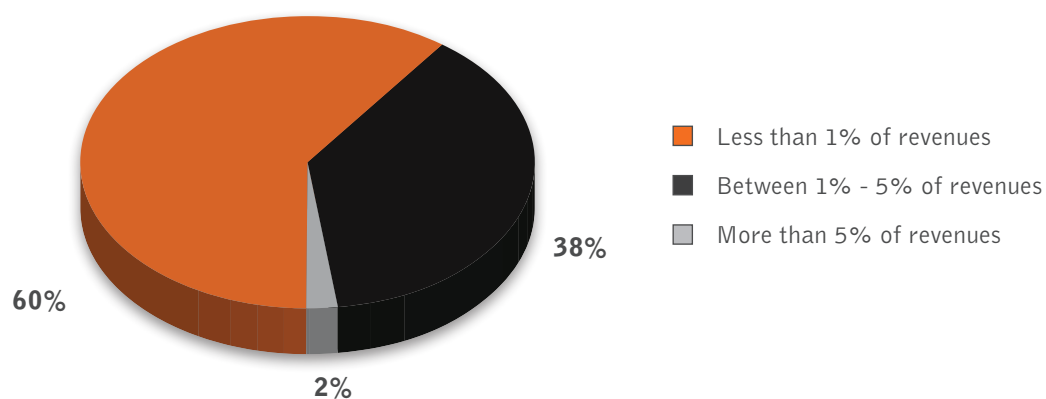
DETECTING PRIVILEGED USER ACCESS COMPROMISE					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
1	-	-	3%	-	2%
2	10%	9%	3%	12%	7%
3	20%	-	31%	28%	26%
4	50%	64%	52%	52%	53%
5	20%	27%	10%	8%	12%

DETECTING MALWARE					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
1	-	-	3%	-	2%
2	-	-	3%	12%	5%
3	30%	9%	13%	16%	15%
4	40%	55%	62%	64%	60%
5	30%	36%	18%	8%	19%

CUSTOMER AND LAW ENFORCEMENT NOTIFICATION					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
1	-	-	2%	4%	2%
2	-	-	15%	8%	10%
3	20%	27%	28%	24%	26%
4	60%	45%	41%	44%	44%
5	20%	27%	15%	20%	18%

STATE LAW DATA BREACH COMPLIANCE					
Bank Asset Size	>\$10B	\$5B - \$10B	\$1B - \$5B	<\$1B	Total
1	-	-	3%	4%	3%
2	-	-	7%	8%	6%
3	30%	18%	31%	32%	30%
4	30%	45%	43%	40%	41%
5	40%	36%	16%	16%	21%

31. How large was your bank's cybersecurity budget for fiscal year 2014?



32. How much has your bank's cybersecurity budget increased for FY 2015?

