Note

Unless otherwise indicated, years referred to in this report are federal fiscal years (which run from October 1 to September 30).
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More than six years after the federal government took control of Fannie Mae and Freddie Mac, policymakers are weighing a comprehensive overhaul of the mortgage finance system that could shrink or eventually close the two entities and create a system with more private capital. Fannie Mae and Freddie Mac were originally chartered as government-sponsored enterprises (GSEs) to ensure a stable supply of credit for residential mortgages nationwide. They operate in the secondary (or resale) market where they buy mortgages from the financial institutions that make the loans (thus ensuring that those institutions have a source of funds to originate new mortgages). Fannie Mae and Freddie Mac then pool those loans to create mortgage-backed securities (MBSs), which they guarantee against defaults on principal and interest payments by borrowers and sell to investors.

Through its financial commitment to the two GSEs and its other mortgage programs, the federal government now directly or indirectly insures over 70 percent of all new residential mortgages. Loans guaranteed by Fannie Mae and Freddie Mac account for over two-thirds of those mortgages (about 50 percent of the total amount of mortgages), and loans insured by the Federal Housing Administration (FHA) make up most of the remaining federal share. Such government dominance was not always the case—in the 20 years before the financial crisis that began in 2007, roughly half of all mortgages were financed without backing from the federal government or either of the GSEs.

As the effects of the financial crisis have receded and as the housing market has recovered, policymakers have taken some initial steps toward returning to a secondary mortgage market with more private-sector involvement. Those steps include raising the fees that Fannie Mae and Freddie Mac charge for their guarantees to levels that private firms may be better able to compete with. The Congressional Budget Office (CBO) expects that the steps already taken, together with pending changes to financial regulations, will reduce the two GSEs’ share of the mortgage market over the next 10 years.

This report examines various mechanisms that policymakers could use to attract more private capital to the secondary mortgage market. The report also addresses how those mechanisms could be combined in different ways to help the market make the transition to a new structure during the coming decade. CBO analyzed transition paths to four alternative structures that involve choices about whether the government would continue to guarantee payment on mortgages and MBSs and, if so, what form and prices those guarantees would have. Under those different structures, the government’s activities would range from providing full or partial guarantees for a large share of the mortgage market to playing a minimal role in a largely private market (except perhaps during a financial crisis). Any transition to a new type of secondary market would also require decisions about what to do with the existing operations, guarantee obligations, and investment holdings of Fannie Mae and Freddie Mac.

1. Although Fannie Mae and Freddie Mac are now owned and operated by the federal government, CBO still refers to them as GSEs on occasion for simplicity and because significant legal and institutional differences exist between those two entities and fully federal agencies.

2. For a previous CBO study that examined the strengths and weaknesses of some of those alternative structures as well as the weaknesses of the precrisis model for Fannie Mae and Freddie Mac, see Congressional Budget Office, Fannie Mae, Freddie Mac, and the Federal Role in the Secondary Mortgage Market (December 2010), www.cbo.gov/publication/21992.
CBO’s analysis has three key findings:

- A transition to a new structure for housing finance that emphasized private capital could reduce costs and risks to taxpayers. One drawback to such a transition is that mortgages could become somewhat less available and more expensive to borrowers. Thus, over the longer term, it could also result in a modest shift of the economy’s resources away from housing toward other activities.

- Although the transition to a new structure could significantly decrease the number of borrowers who received mortgages backed by Fannie Mae or Freddie Mac, additional private capital would replace most of the lost funding. Borrowers would probably not face significant increases in interest rates because the two GSEs’ current pricing is not too far below market pricing. Consequently, a gradual transition would probably exert only modest downward pressure on house prices.

- Because policymakers have already raised the guarantee fees charged by Fannie Mae and Freddie Mac close to those that CBO estimates would be charged by private insurers, the budgetary costs of the two GSEs’ activities over the next 10 years are expected to be small. As a result, the budgetary savings would also be small under any of the transition paths to a more private system that CBO considered. Thus, the choice between the different market structures probably rests primarily on considerations other than budgetary costs. (Those findings depend on the accounting framework that CBO uses for Fannie Mae and Freddie Mac, as described below.)

CBO’s projections of budgetary costs and the size of the federal role in the mortgage market involve considerable uncertainty. In particular, because the market for mortgages is now dominated by large government-backed entities, the price that private investors would charge to bear the risks of mortgage guarantees and how that price might evolve over time are highly uncertain. CBO based its projections on its assessment of the middle of the distribution of estimates of that price.

What Options Would Attract More Private Capital?
CBO expects that the role of Fannie Mae and Freddie Mac in the secondary mortgage market will shrink over the next decade under current policy. If policymakers wanted to reduce that role further and lessen the advantages given to the two GSEs, they could use various mechanisms:

- Raise guarantee fees on mortgage-backed securities further to bring the two GSEs’ pricing closer to pricing in the private market. Even small increases in those fees would nearly eliminate budgetary costs for Fannie Mae and Freddie Mac (using the accounting framework described below) and allow private firms to capture some of the GSEs’ current business.

- Change the limits on the maximum size of mortgages that Fannie Mae and Freddie Mac are allowed to guarantee. The limit is currently $625,500 in areas with high housing costs and $417,000 in the rest of the country, although the average size of new mortgages guaranteed by the two GSEs is only about $200,000 in 2014.

- Share the credit risk of mortgages (the risk of loss when a borrower defaults) with private investors—for example, offer compensation to induce private investors to assume responsibility for the initial losses on GSE-guaranteed loans.

- Auction off a limited number of new guarantees by Fannie Mae and Freddie Mac to the highest bidders rather than requiring the GSEs to continue to guarantee all eligible mortgages submitted by lenders for preset fees, thus reducing the size of the two GSEs’ guarantee business. Auctions would determine the market prices of those guarantees and allocate them to the lenders who most valued them.

How those mechanisms were used, whether alone or in combination, would depend on which new structure for the secondary mortgage market policymakers wanted to encourage. Changes in the GSEs’ guarantee fees and loan limits could be useful for many types of restructuring, whereas risk sharing and auctions would be more appropriate for a transition to a smaller, but continuing, federal presence in the market. (The Federal Housing Finance Agency, which regulates the GSEs, currently has the authority to employ any of those mechanisms, although CBO’s budget projections for Fannie Mae and Freddie Mac are based on the assumptions that their present fee levels and loan limits will continue and that risk sharing with private investors will remain limited.)
What Structures for the Secondary Market Did CBO Consider, and What Would a Transition to Them Involve?
For this analysis, CBO packaged the aforementioned policy mechanisms into illustrative transition paths that, between 2015 and 2024, would move the secondary mortgage market from dominance by two large government-sponsored enterprises to one of four alternative structures (see Summary Table 1):

- A market with a single, fully federal agency that would carry out the two GSEs’ main function of buying eligible mortgages and turning them into securities that are guaranteed against losses from default on the underlying mortgages. The transition to such an agency would require little or no change to the structure of the GSEs’ guarantees, the fees charged for them, or the GSEs’ loan limits because no significant amounts of new private capital would be required beyond those that are expected to be invested under current policy. By the end of the transition period, the federal agency would have a smaller share of the market than Fannie Mae and Freddie Mac have today.

- A hybrid public-private market with federal guarantees against catastrophic losses. Under that structure, the government and private investors would share credit losses on eligible MBSs, with federal guarantees covering catastrophic risks (those associated with severe downturns in the housing market) for a significant share of mortgages. As a result, taxpayers would bear most of the losses during a crisis, but private investors would bear most of the losses in other periods. The main policy mechanism used to transition to that structure would be sharing credit risk with private investors.

- A market with the federal government as “guarantor of last resort,” in which private companies would guarantee most new mortgages in normal times, but the government would fully guarantee most new mortgages during financial crises. (In normal times, the government would guarantee a small sample of mortgages of all sizes to ensure that it is capable of doing so in times of crisis.) The major policy actions taken to establish the new structure would be auctioning off the GSEs’ new guarantees and raising their loan limits.

- A largely private market with no explicit federal guarantees of MBSs (other than those provided by the Government National Mortgage Association, which securitizes and guarantees mortgages insured by other federal agencies, such as FHA and the Department of Veterans Affairs). That structure would minimize the explicit credit risk borne by taxpayers. The main policy changes made during the transition would be raising guarantee fees and lowering loan limits until the GSEs no longer guaranteed new mortgages.

Those alternative market structures share some common features (although those features might be altered through policy changes that lie beyond the scope of this report). The government would guarantee only mortgages that met certain eligibility criteria, and private financial institutions would provide most other mortgages. FHA would continue to provide assistance to low-income homebuyers. Under all of the structures, the portfolios of mortgages that Fannie Mae and Freddie Mac hold as investments would be reduced. Depending on the new structure, the two GSEs could be incorporated into a single federal agency, liquidated (with their operating systems sold to private investors), or privatized. Any transition would involve legal and regulatory issues that would necessarily take some time to resolve, which is why CBO examined transitions that would take place over a 10-year period.

How Would the Transition to Those Structures Affect Borrowers, the Housing Market, and the Federal Budget?
If policymakers reduced the role of Fannie Mae and Freddie Mac, borrowers would probably face somewhat higher interest rates on mortgages, and house prices would probably decline modestly (see Summary Table 2). The increases in interest rates that borrowers faced, however, would probably be smaller than the fluctuations in market interest rates that occur during a typical year. Borrowers would most likely continue to have access to 30-year fixed rate mortgages as long as the market for converting mortgages into MBSs was large and the securities were easily traded, whether or not that market had government backing. Lending standards would most likely be higher on privately backed mortgages, and during a financial crisis, the availability of those private loans could be sharply disrupted, causing their costs to rise significantly.
Summary Table 1.

### Key Features of CBO’s Illustrative Transition Paths to New Structures for the Secondary Mortgage Market

<table>
<thead>
<tr>
<th>Key Policy Changes</th>
<th>Current Policy (GSEs remain in conservatorship)</th>
<th>Transition to a Market With a Single, Fully Federal Agency</th>
<th>Transition to a Hybrid Public-Private Market</th>
<th>Transition to a Market With the Government as Guarantor of Last Resort</th>
<th>Transition to a Largely Private Secondary Market</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GSEs’ Guarantee Fees</strong>&lt;sup&gt;a&lt;/sup&gt;</td>
<td>Current fee schedule, including 10 basis-point drop in 2022, remains (Fees averaged 55 basis points in January 2014)</td>
<td>No changes</td>
<td>Small increases&lt;sup&gt;b&lt;/sup&gt;</td>
<td>Fees set by auction; would probably rise toward fair-value level</td>
<td>Large initial increase followed by smaller increases, for a total rise of 50 basis points by 2022&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>GSEs’ Loan Limits</strong>&lt;sup&gt;c&lt;/sup&gt;</td>
<td>$625,500 in high-cost areas, $417,000 elsewhere</td>
<td>Reduced to $417,000 in all areas</td>
<td>Reduced to $417,000 in all areas</td>
<td>Raised to $729,750 in all areas</td>
<td>Gradually reduced to zero</td>
</tr>
<tr>
<td><strong>Sharing of Credit Risk</strong>&lt;sup&gt;d&lt;/sup&gt;</td>
<td>Private mortgage insurance required for borrowers with less than 20 percent down payment</td>
<td>No changes</td>
<td>Investors take first losses from default; GSEs guarantee against catastrophic losses</td>
<td>No changes</td>
<td>No changes</td>
</tr>
<tr>
<td><strong>Auctions of New GSE Guarantees</strong></td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Amount of new GSE guarantees auctioned off gradually reduced until GSEs cover only a small share of the market</td>
<td>None</td>
</tr>
</tbody>
</table>

Source: Congressional Budget Office.

Notes: A basis point is 0.01 percentage point.

GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac).

a. In exchange for guaranteeing the timely payment of interest and principal on a mortgage, the GSEs receive fees from the lender (or the company servicing the lender’s loans).

b. In this transition path, the 10 basis-point increase in the GSEs’ guarantee fees enacted in the Temporary Payroll Tax Cut Continuation Act of 2011, which is due to expire on October 1, 2021, is assumed to be extended permanently.

c. Lawmakers have limited the size of mortgages that are eligible to be included in pools of loans guaranteed by the GSEs.

d. In this case, sharing credit risk means that private parties absorb some amount of losses from loan defaults before the GSEs are required to do so.
## Summary Table 2.

**Probable Effects of CBO’s Illustrative Transition Paths on Subsidy Costs, Loan Guarantees, and the Mortgage and Housing Markets**

<table>
<thead>
<tr>
<th>Transition to a Market With a Single, Fully Federal Agency</th>
<th>Transition to a Hybrid Public-Private Market</th>
<th>Transition to a Market With the Government as Guarantor of Last Resort</th>
<th>Transition to a Largely Private Secondary Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Subsidy Costs for the GSEs</td>
<td>Slight increases throughout the transition</td>
<td>Reduced to nearly zero by the end of the transition</td>
<td>Reduced to zero by the end of the transition</td>
</tr>
<tr>
<td>Volume of New Loan Guarantees by the GSEs</td>
<td>Small declines throughout the transition</td>
<td>Moderate declines throughout the transition</td>
<td>Reduced to zero by the end of the transition</td>
</tr>
<tr>
<td>Availability of Credit During a Financial Crisis</td>
<td>Not affected</td>
<td>Not affected</td>
<td>Less available</td>
</tr>
<tr>
<td>Availability of 30-Year Fixed Rate Mortgages</td>
<td>Not affected</td>
<td>Not affected</td>
<td>Probably disrupted when the securitization market is frozen</td>
</tr>
<tr>
<td>Interest Rates for Most Borrowers of GSE-Backed Mortgages</td>
<td>Not affected (Slight increases throughout the transition on loans without GSE backing)</td>
<td>Small increases throughout the transition</td>
<td>Moderate increases by the end of the transition (Larger increases throughout the transition on loans without GSE backing)</td>
</tr>
<tr>
<td>House Prices</td>
<td>Not noticeably affected</td>
<td>Slightly lower throughout the transition</td>
<td>Slightly lower by the end of the transition</td>
</tr>
<tr>
<td>Investment in Housing</td>
<td>Current overallocation of capital toward housing would continue</td>
<td>Allocation of capital toward housing would be reduced</td>
<td>Allocation of capital toward housing would be reduced</td>
</tr>
<tr>
<td>Volume of Loans Insured by FHA</td>
<td>Small increases throughout the transition</td>
<td>Moderate increases throughout the transition</td>
<td>Large increases by the end of the transition</td>
</tr>
<tr>
<td>Other Effects</td>
<td>Federal government would maintain control of a large segment of the capital market</td>
<td>GSEs’ credit losses from defaults would drop significantly</td>
<td>Financial institutions would have the strongest incentive to be prudent in their lending and securitizing</td>
</tr>
</tbody>
</table>

**Source:** Congressional Budget Office.

**Notes:** These effects are relative to CBO’s projections of outcomes during the 2015–2024 period under current policy.

GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac); FHA = Federal Housing Administration.
Under current policy, CBO expects that Fannie Mae and Freddie Mac will guarantee, on average, about $1 trillion of new mortgages per year over the next decade but that their overall share of the mortgage market will decline from over 50 percent now to about 40 percent by 2024. CBO projects that the present value of the government’s total income and payments over the life of those mortgages will translate to costs of about $19 billion for taxpayers over that period (estimated on a fair-value basis, as described below). Those budgetary costs would be significantly reduced in a transition to any of the market structures that CBO analyzed except in the transition to a market with a single, fully federal agency. (In that transition, costs over the next 10 years would rise slightly.) Under all of the illustrative transition paths, some borrowers who would have had GSE-backed mortgages under current policy would shift to FHA-insured loans rather than to privately backed loans. CBO estimates that the increase in the volume of mortgages for single-family homes guaranteed by FHA would range from relatively small—in the transition to a market with a single, fully federal agency—to significant—in the transition to a largely private market. Because the two GSEs and FHA are accounted for differently in CBO’s estimates of the federal budget (as described below), the shift in guarantees from Fannie Mae and Freddie Mac to FHA would have the effect of increasing the budgetary savings projected for the transition paths, even though the risk borne by taxpayers would be little changed.

How Does CBO Account for Fannie Mae, Freddie Mac, and FHA in Its Budget Estimates?
The estimates of budgetary costs in this report depend on the accounting treatment that CBO uses for the two GSEs and FHA. CBO accounts for the costs of Fannie Mae’s and Freddie Mac’s activities on a fair-value basis, in which estimated costs represent an approximation of the price that the federal government would need to pay a private insurer to make loan guarantees on the same terms as the GSEs. Because those fair-value estimates incorporate a charge for market risk—the additional compensation that private investors demand to invest in risky assets such as mortgages—they provide a more comprehensive measure of the costs of guarantees than do projections of the net cash costs associated with guarantees.

That choice of accounting method has two consequences for CBO’s analysis:

- Transactions that occurred at market prices in liquid and orderly markets would have no fair-value costs. Thus, regardless of which structure for the secondary market was ultimately adopted, the cost or savings to the government from transferring the GSEs’ existing mortgage assets or guarantee obligations to private investors would probably be small under fair-value accounting. If, instead, CBO accounted for the GSEs’ activities on a cash basis, as the Administration does, those transactions would result in costs for the government because the GSEs would lose future streams of income, which would include at least some compensation for market risk.

- The fair-value approach would probably show small savings from a transition that reduced the volume of new guarantees by Fannie Mae and Freddie Mac and increased the role of the private sector in the secondary mortgage market. If, instead, CBO accounted for the GSEs’ activities on a cash basis, that same transition would probably result in large estimated costs to the government. Specifically, the GSEs’ current activities are expected to produce cash savings for the government because Fannie Mae and Freddie Mac charge enough for their loan guarantees to more than cover the projected losses on those guarantees (though not enough to cover the risks that a competitive private insurance company would factor in when charging for the same guarantees).3

In contrast to CBO’s treatment of Fannie Mae and Freddie Mac, guarantees by FHA, like the activities of most other federal credit programs, are accounted for in the budget using the procedures specified in the Federal Credit Reform Act of 1990. Unlike the fair-value approach, those procedures do not incorporate market risk. As a result of those differences in accounting, additional savings would be reported in the budget as some borrowers shifted from GSE financing to FHA guarantees.

3. For additional information, see Congressional Budget Office, letter to the Honorable Barney Frank about the budgetary impact of Fannie Mae and Freddie Mac (September 16, 2010), www.cbo.gov/publication/21707.
In September 2008, the federal government put Fannie Mae and Freddie Mac, the two giants of the mortgage finance system, into conservatorship—a legal process that allows the government to control the institutions and their business practices and to set their strategic goals. That move came as falling home prices and rising delinquencies on mortgages threatened the solvency of the two institutions and hampered their ability to facilitate the flow of credit to mortgage borrowers. The government pledged hundreds of billions of dollars to shore up Fannie Mae and Freddie Mac in exchange for almost complete ownership—in effect, transforming them into federal entities and reinforcing their already dominant position in the secondary (or resale) market for residential mortgages. The government’s expanded role has increased the availability of mortgage credit and has helped stabilize the housing market and the economy. However, mortgage credit carries with it the risk of financial losses if borrowers default—known as mortgage credit risk—and the government’s expanded role has transferred that risk to taxpayers.

In the secondary market, lenders that originate mortgages (such as banks and mortgage companies) generally obtain funds to make more loans by selling their mortgages to Fannie Mae, Freddie Mac, and other buyers (including banks and insurance companies). Selling loans to Fannie Mae and Freddie Mac is often the cheapest source of funding, especially for a 30-year fixed rate mortgage. Those two institutions and other buyers generally package such loans into mortgage-backed securities (MBSs), which they sell to investors along with a guarantee of payment on the underlying mortgages—a process known as securitization. In essence, an MBS represents a claim on the cash flows from the pool of mortgages included in the security.

Since the financial crisis that began in 2007, the willingness of private investors and firms to assume responsibility for mortgage credit risk has declined sharply. As a result, the secondary mortgage market is now almost entirely federal. The Congressional Budget Office (CBO) expects the private sector’s role in that market to increase over time—and the role of Fannie Mae and Freddie Mac to diminish—as the adverse effects of the financial crisis wane and the housing market recovers. Banks, thrift institutions (such as savings and loans), and mortgage brokers still rely on securitization in the secondary market to supply funding for most of the mortgages they originate. Whether that reliance will continue or other low-cost funding alternatives will emerge depends on a number of changes to federal financial regulations that are now pending, as well as on many other factors. However, if banks have few options other than to hold more mortgages on their balance sheets (whether they originated those loans or purchased them from other lenders in the secondary market), the private sector will probably play a smaller than expected role in backing mortgage credit risk.

**The Federal Government’s Role in the Mortgage Market**

In 2013, the government backed about 80 percent of the $1.9 trillion in new residential mortgages. About $1.2 trillion of those mortgages were guaranteed by Fannie Mae and Freddie Mac. Many of the rest were insured by the Federal Housing Administration (FHA), which has since 2008 ramped up its insurance of loans for borrowers who lack the savings, credit history, or

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income to qualify for mortgages guaranteed by Fannie Mae and Freddie Mac. The government’s share of the market fell to just over 70 percent in the first six months of 2014, as private companies played a bigger role.

Activities of Fannie Mae and Freddie Mac

More than four decades ago, the Congress chartered Fannie Mae and Freddie Mac as government-sponsored enterprises (GSEs)—private corporations with the public mission of promoting access to mortgage credit by increasing the liquidity of mortgage investments (that is, ensuring that mortgages can be readily bought and sold). Those GSEs are also required to promote affordable housing for low- and moderate-income families. 

(Although Fannie Mae and Freddie Mac are now owned and run by the federal government, CBO still refers to them as GSEs for simplicity and because they differ from fully federal agencies in some significant legal and institutional ways.)

To carry out their missions, the two GSEs buy certain home loans from lenders and package them into MBSs, which are sold to investors. (Fannie Mae and Freddie Mac are forbidden by their charters from originating mortgages themselves.) In exchange for the GSEs’ guarantee of timely payment of interest and principal on those loans, the lenders (or companies servicing their loans) pay the GSEs a monthly fee, which is based mainly on the type of loan involved, as well as an up-front fee, which is based on the riskiness of the loan. Those fees are effectively paid by mortgage borrowers—either up front when they take out a loan or as part of their monthly interest payments. Besides selling MBSs, Fannie Mae and Freddie Mac also buy some MBSs to hold in their portfolios as investments; they fund those purchases by issuing debt securities.

To control their exposure to the risk of loss from defaults, the two GSEs set and enforce standards for the characteristics of the loans they purchase, such as borrowers’ creditworthiness, the size of down payments, and, on some loans, requirements for private mortgage insurance. The GSEs require lenders to make “representations and warranties” that their underwriting and documentation meet those contractual standards. In the past several years, Fannie Mae and Freddie Mac have received large payments from lenders in settlements related to alleged breaches of the standards. (Concern about such settlements has caused lenders to tighten their lending standards, making it harder for some borrowers to obtain mortgages.)

The size of the mortgages that Fannie Mae and Freddie Mac can purchase is limited by statute. For loans on single-family homes, that limit is currently $625,500 in areas with high housing costs (down from $729,750 during the financial crisis) and $417,000 in other areas. Mortgages that are under those limits and that meet the GSEs’ other standards are known as conforming loans.

Providing credit guarantees to investors who buy mortgage-backed securities, which makes those securities safer for investors, is the primary way that Fannie Mae and Freddie Mac enhance liquidity and reduce the probability and severity of disruptions in the financing of mortgages. The GSEs also promote liquidity by standardizing the securitization process. Securities, whether they are federally backed or privately issued, are easier to trade if they are issued in large volumes and are relatively homogeneous and interchangeable. Such securities require less specialized knowledge on the part of investors and thus appeal to a broader base of investors. The guarantees and standardization reduce interest rates on mortgages.

Some of the benefits that the two GSEs provide are the result of federal subsidies. Fannie Mae and Freddie Mac are now explicitly backed by the federal government, which increases the value of their guarantees to investors. But even before conservatorship, investors generally assumed that Fannie Mae’s and Freddie Mac’s MBSs carried an implicit federal guarantee. (That assumption was proved correct when the federal government took over the two GSEs rather than let them become insolvent.) Under normal market conditions, using federal guarantees to support liquidity in the secondary mortgage market tends to reduce interest rates only slightly for most mortgage borrowers. Such government support had the greatest impact on the availability and price of mortgages during the financial crisis and its aftermath. That support, although risky to taxpayers, reduced the extent to which the crisis spilled over to the market for new-home construction and helped protect the broader economy.

2. An examination of the GSEs’ assistance to low- and moderate-income borrowers is beyond the scope of this report. Other federal and state programs also support affordable housing.

In periods of extreme financial distress, even a federal guarantee may not be enough to ensure a stable source of low-cost funding for the secondary market. At such times, the government can also support liquidity by standing ready to buy large amounts of MBSs—as the Federal Reserve and, to a much smaller extent, the Treasury did in response to the most recent crisis.\footnote{Jerome H. Powell, Member, Board of Governors of the Federal Reserve System, “Thoughts on Unconventional Monetary Policy” (speech given at the Bipartisan Policy Center, Washington, D.C., June 27, 2013), http://go.usa.gov/BdIT (PDF, 54 KB); and Diana Hancock and Wayne Passmore, How the Federal Reserve’s Large-Scale Asset Purchases (LSAPs) Influence Mortgage-Backed Securities (MBS) Yields and U.S. Mortgage Rates, Finance and Economic Discussion Series Paper 2014-12 (Board of Governors of the Federal Reserve System, February 2014), http://go.usa.gov/BG9R.} From September 2012 to December 2013, the Federal Reserve purchased about $40 billion of mortgage-backed securities each month, most of them issued by Fannie Mae and Freddie Mac. The amount of those purchases steadily declined from January 2014 to October 2014, when the Federal Reserve announced that it would stop purchasing MBSs at the end of the month. As of October 30, 2014, the Federal Reserve held $1.7 trillion of mortgage-backed securities.

**Conservatorship**

In the summer of 2008, the size of Fannie Mae’s and Freddie Mac’s losses on their outstanding guarantees and investment portfolios impaired their ability to buy mortgages and to continue making payments on their obligations. As a result, on September 6 of that year, the Secretary of the Treasury and the director of the Federal Housing Finance Agency (FHFA) placed the two GSEs in conservatorship, exercising their authority under the Housing and Economic Recovery Act (enacted in July 2008). That law allows the Treasury to provide funds to the GSEs to keep their net worth from falling below zero, effectively insuring holders of their debt securities and MBSs against losses. In return for that support, which takes the form of purchases of the GSEs’ preferred stock, the Treasury receives quarterly payments from Fannie Mae and Freddie Mac and rights to nearly 80 percent ownership of their common stock.

In 2012, the Treasury and the two GSEs revised their agreements: Rather than pay a fixed dividend on the Treasury’s preferred shares, Fannie Mae and Freddie Mac began in 2013 to return almost all of their profits to the Treasury. However, those payments do not reduce the amount of preferred stock held by the Treasury, and the GSEs are prohibited from buying back that stock under their agreements with the Treasury and FHFA. Thus, the terms of the agreements and the conservatorship ensure that the federal government effectively retains complete ownership and control of Fannie Mae and Freddie Mac.

FHFA, which is responsible for regulating the safety and soundness of the two GSEs, acts as conservator. It oversees the GSEs’ operations and sets goals for their performance. In doing so, FHFA pursues several aims: minimizing losses on behalf of taxpayers, supporting a stable and liquid mortgage market, maximizing assistance to homeowners, and minimizing foreclosures. To help struggling borrowers, FHFA has implemented loan modification programs (which generally reduce the interest rates on mortgages rather than the principal) and has streamlined refinancing programs.\footnote{Edward J. DeMarco, Acting Director, Federal Housing Finance Agency, “Recent Accomplishments and a Look Ahead at the Future of Housing Finance” (speech given at the Exchequer Club, Washington, D.C., November 28, 2012), http://go.usa.gov/fkjY; and Congressional Budget Office, Modifying Mortgages Involving Fannie Mae and Freddie Mac: Options for Principal Forgiveness (May 2013), www.cbo.gov/publication/44115.} In addition, the agency has directed the GSEs to limit their portfolio holdings and to experiment with bulk sales of real estate acquired through foreclosures. It has also replaced senior managers at Fannie Mae and Freddie Mac and limited executive compensation.

The two GSEs’ share of the housing finance market has expanded since conservatorship began. As of June 30, 2014, Fannie Mae and Freddie Mac owned or guaranteed roughly half of the nearly $10 trillion in outstanding single-family residential mortgages in the United States; they backed about 60 percent of the estimated $1.9 trillion in new mortgages in 2013 and about 50 percent of the mortgages originated in the first half of 2014, whereas in 2006 they backed less than 30 percent of new mortgages (see Figure 1-1).\footnote{The $1.9 trillion estimate for mortgage originations in calendar year 2013 comes from Inside Mortgage Finance; other sources may show slightly different estimates for the volume of originations and for the GSEs’ current market share.} In response to past losses, the GSEs have tightened their credit standards.

In the face of the two GSEs’ expanding market share, FHFA and lawmakers have begun taking actions to encourage greater involvement by the private sector in the
Figure 1-1.

Shares of the Market for New Single-Family Residential Mortgages, by Guarantor or Holder

Percent

Source: Congressional Budget Office based on data from Inside Mortgage Finance.

Notes: The market shares shown here represent the distribution of all single-family residential mortgages (including home-equity loans) originated in a given year, by the entities that guarantee or (in the case of unguaranteed mortgages) hold them. "Single-family" mortgages are loans for units that house one to four families.

Data for 2014 are through June 30, 2014.

FHA = Federal Housing Administration; VA = Department of Veterans Affairs.

Activities of the Federal Housing Administration

The Federal Housing Administration—which provides insurance against default to lenders for certain mortgages—has also played a much larger role since the financial crisis, as have smaller programs for federally

MBS guarantees with the riskiness of the underlying mortgages. As a result, in January 2014, the GSEs’ average guarantee fee for new loans (including both up-front and ongoing fees) was about 55 basis points of a loan’s principal, whereas before the financial crisis, it was about 20 basis points.

Another action that could expand private-sector involvement is the joint venture between Fannie Mae and Freddie Mac, announced in March 2013, to create and operate a common infrastructure for securitizing mortgages. That infrastructure might eventually be used by private issuers of MBSs as well.8


8. To enhance liquidity, FHFA is also considering a single security for the two GSEs. See Laurie Goodman and Lewis Ranieri, Charting the Course to a Single Security (Urban Institute, September 3, 2014), www.urban.org/publications/413218.html.
insured mortgages, such as those run by the Department of Veterans Affairs and the Rural Housing Service. Almost all of the loans insured by those federal agencies are securitized and fully guaranteed by the Government National Mortgage Association (Ginnie Mae), whose activities in the secondary mortgage market have increased in recent years as well.

Because FHA insures loans with down payments as low as 3.5 percent, it is now the primary source of financing for first-time homebuyers. The share of new mortgages that FHA insures each year, which averaged just 4 percent between 2000 and 2007, jumped to an average of 15 percent from 2008 to 2011 and peaked at 18 percent in 2009. In 2013, FHA guaranteed about 12 percent (over $200 billion) of new mortgages.

After experiencing high default rates on loans issued between 2005 and 2007, before the worst of the financial crisis began, FHA raised premiums for its mortgage insurance and tightened its underwriting standards starting in 2008. Currently, the majority of borrowers who take out 30-year fixed rate mortgages and make down payments of less than 5 percent pay annual insurance premiums of 135 basis points, plus an up-front fee of 175 basis points. Those FHA fees are considerably higher than the fees charged by Fannie Mae and Freddie Mac because of the greater risk associated with FHA loans.

Developments in the Private Market
The federal government’s role in the mortgage market expanded in recent years because private firms and investors sharply reduced their willingness to issue or hold mortgages without a federal guarantee. Historically, private-sector participants in the secondary market supplied funding for mortgages by issuing their own mortgage-backed securities (referred to as private-label MBSs). Between 2009 and 2011, however, that activity virtually ceased. Although it has picked up since then, the rate of securitization by private issuers remains very low. Consequently, banks have recently been holding most of the newly originated mortgages that they do not sell to the GSEs or Ginnie Mae on their balance sheets and bearing the credit risk, which is a departure from past practice. (For the past 25 years, banks had been shifting their mortgage-related portfolios toward MBSs and away from whole, rather than securitized, loans. That shift occurred in part because banks are required to hold more capital to absorb potential losses on whole mortgages than on MBSs.)

Since the financial crisis, mortgage originators have tightened their lending standards, even for loans eligible to be guaranteed by Fannie Mae or Freddie Mac. (Because of the representations and warranties that an originator must make to the two GSEs, selling loans to those institutions does not completely eliminate the originator’s credit risk.) One reason for the tightening was that the probability of default increased as people’s employment prospects became more uncertain and house prices declined. As a result of the changes, the credit score and down payment requirements for borrowers trying to qualify for a conforming mortgage are higher than they were before the crisis, and borrowers must now fully document their income. Recently, however, a modest easing of lending standards for prime residential loans—those that go to borrowers with good credit and low debt-to-income ratios—was reported by lenders in a survey conducted by the Federal Reserve.

Another important recent development in the private mortgage market is an apparent reduction in the compensation that investors require to assume the credit risk on privately backed mortgages. That reduction is evidenced by a decrease in the extent to which interest rates on jumbo mortgages (those too large to qualify for a GSE guarantee) exceed interest rates on conforming mortgages. That interest rate differential is a rough indicator of how much value investors place on the GSEs’ federal backing. The average spread between those rates was more than 150 basis points at the height of the financial crisis, but it ranged between 10 basis points and 55 basis points in calendar year 2013 and generally remained

under 10 basis points in the first 11 months of 2014 (see Figure 1-2). Some of the decline in that spread since the financial crisis resulted from policymakers’ raising the GSEs’ guarantee fees, but most of the decrease is attributable to private investors’ willingness to accept lower compensation for holding mortgage risk. The narrowing of the spread between those interest rates has encouraged more originations of jumbo loans.

**Budgetary Treatment of Fannie Mae and Freddie Mac**

Since the two GSEs were taken into conservatorship, CBO has treated Fannie Mae and Freddie Mac as government entities for its projections of the federal budget. In projecting the budgetary costs of the entities’ new loan guarantees, CBO uses an accrual approach in which the net cost of a guarantee is the present value, as of the date the obligation is incurred, of the expected stream of...
income and payments over the years from that guarantee. CBO constructs that present value using an interest rate that reflects the price that would be charged by private market participants for taking that risk; those “fair-value” estimates approximate the fair market price that a private guarantor would charge the government to provide the same guarantees. That budgetary treatment differs from the one used by the Administration, which focuses on Fannie Mae’s and Freddie Mac’s annual cash transactions with the Treasury rather than on the full cost of their loan guarantees.

Measured on a fair-value basis, Fannie Mae’s and Freddie Mac’s activities are being subsidized by the federal government, because the fees that the institutions charge for their guarantees are lower than what CBO estimates competitive firms would charge—and thus are lower than the estimated costs of those guarantees. In its April 2014 baseline budget projections, CBO estimated that federal subsidies on the new loan guarantees that Fannie Mae and Freddie Mac are expected to make in fiscal year 2015 will amount to $4 billion over the lifetime of those loans and that federal subsidies on the new guarantees made between 2015 and 2024 will total $19 billion. The lifetime subsidy costs are reported in CBO’s budget projections as a single lump-sum outlay in the year in which the guarantees are expected to be made.

As discussed in Chapter 4, CBO’s projections also include the purchases and sales of securities in the GSEs’ investment portfolio. As long as those transactions occur at market prices, they will not result in any budgetary gains or losses when measured on a fair-value basis.

What CBO’s Fair-Value Estimates Cover
CBO’s fair-value estimates of federal subsidies for Fannie Mae and Freddie Mac account for all of the expected cash flows associated with the two GSEs’ loan guarantees, including the fees paid by borrowers and the costs incurred by the GSEs when a borrower defaults. Thus, the subsidy estimates are accrual accounting measures (as opposed to cash accounting measures) of the expected lifetime cost of new loan guarantees as of the year in which a loan is disbursed.

The fair-value approach also accounts for market risk—the type of financial risk that investors cannot avoid by diversifying their portfolios. Market risk results from actual or expected changes in overall economic conditions. In practice, the cost of market risk is incorporated by choosing an appropriate interest rate (called a discount rate) to convert the stream of future income and payments into a single present value. For example, the discount rate used by CBO to compute the present value of the cash flows from a mortgage is the rate of return that a well-diversified investor buying a mortgage-backed security in a competitive market would expect to earn while holding the security. As compensation for market risk, investors expect to earn a higher rate of return (even after accounting for expected losses) than they would require to hold an investment without that risk (such as a Treasury security, which most investors consider to have very little market risk). The additional compensation that investors demand for bearing market risk is known as a risk premium.

The federal government is exposed to market risk on the GSEs’ guarantees because when the economy is weak, borrowers default on their mortgages more frequently, and the amounts recovered after defaults are lower. When Fannie Mae or Freddie Mac guarantees a mortgage, the market risk associated with that obligation is effectively passed on to taxpayers—who, as investors, would view that risk as having a cost. CBO’s budget estimates for the two GSEs are quite sensitive to assumptions about the market risk of the mortgage guarantees, which may be higher or lower than CBO anticipates.

A loan guarantee will have a fair-value subsidy cost if it is priced below what a private firm would charge in a

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competitive, liquid market (or, equivalently, if it is expected to earn a lower rate of return than other investments with comparable risk). Consequently, if Fannie Mae or Freddie Mac charged 55 basis points a year to guarantee loans but a private company would demand about 65 basis points in compensation to assume the same obligations, the federal subsidy (the missing fees) would be about 10 basis points a year. In practice, CBO’s fair-value estimates make some adjustments for differences in liquidity between the markets for GSE and private-sector loan guarantees. The current structure of the secondary mortgage market favors Fannie Mae and Freddie Mac and reduces liquidity for privately backed loans. In addition, the fee that the market would charge for GSE guarantees cannot be directly observed (although some information can be gleaned from Fannie Mae’s and Freddie Mac’s risk-sharing transactions), so CBO must infer it from other sources. The limited role that the private sector is currently playing in the secondary market also adds to the uncertainty surrounding fair-value estimates.

Instead of a fair-value approach, most federal programs that make loans or loan guarantees are accounted for using procedures specified under the Federal Credit Reform Act of 1990 (FCRA). Although those procedures require that subsidy costs be estimated on a present-value basis, they specify that expected cash flows must be discounted using interest rates on Treasury securities with similar maturities rather than rates of return on riskier assets. The subsidy costs estimated for the two GSEs would be significantly lower under those procedures than under fair-value accounting and would generally appear as savings.14

Differences Between CBO’s and the Administration’s Budgetary Treatment of the GSEs

In contrast to CBO’s budgetary treatment, the Administration treats Fannie Mae and Freddie Mac as separate from the federal government and reports only their cash transactions with the Treasury. Those transactions consist of payments that the government makes to the two GSEs when it buys their preferred stock and, in the opposite direction, amounts that the GSEs pay to the government. As of the end of September 2014, the Treasury has purchased $187 billion of senior preferred stock from Fannie Mae and Freddie Mac, and the two GSEs have paid $219 billion to the Treasury under the terms of their agreements with the government.15 Most of those payments came from the $130 billion in net income that Fannie Mae and Freddie Mac together earned in 2013. (Those earnings were boosted by one-time accounting changes—the revaluation of the GSEs’ deferred tax assets, which resulted in additional payments of $75 billion in 2013—and by $8 billion in legal settlements with large banks.) In its budget for fiscal year 2015, the Administration projected that the two institutions would make payments to the government totaling $181.5 billion between January 2014 and September 2024. (Those payments exclude sums that the Treasury collects from the two GSEs from the 10 basis-point increase in guarantee fees enacted in the Temporary Payroll Tax Cut Continuation Act. Those sums totaled about $2 billion in 2014.) Differences between CBO’s and the Administration’s budget estimates for Fannie Mae and Freddie Mac do not reflect diverging expectations about the future profitability of those institutions. CBO and the Administration are in broad agreement that the two GSEs will report accounting profits on their mix of existing and new business. Instead, differences in budget estimates reflect several other factors:

- CBO projects budgetary costs for Fannie Mae and Freddie Mac because they are charging less on average for their guarantees than even the most efficient private financial institution would charge in a liquid market. The two GSEs’ guarantee fees are projected to be high enough to cover expected losses and administrative expenses but not high enough to cover all of the market risk associated with the guarantees that a fully private entity would need to recover. (That situation is why analysts expect that Fannie Mae and Freddie Mac will continue to report accounting profits even if they earn lower returns than private investors would require to bear the same risks.)

14. For a comparison of the GSEs’ costs on a fair-value basis and a FCRA basis, see Congressional Budget Office, letter to the Honorable Barney Frank about the budgetary impact of Fannie Mae and Freddie Mac (September 16, 2010), www.cbo.gov/publication/21707.

15. For an analysis of the return that taxpayers have received from the GSEs since they were placed in conservatorship, see Larry D. Wall, “Have the Government-Sponsored Enterprises Fully Repaid the Treasury?” Notes From the Vault (Federal Reserve Bank of Atlanta, March 2014), www.frbatlanta.org/centis/pubscf/nftv_1403.cfm.
Unlike the Administration’s budgetary treatment, CBO’s projections cover only the costs of the two GSEs’ new business. Most of the institutions’ projected accounting profits will come from their existing guarantees and investment portfolios, but current and anticipated losses on the GSEs’ existing portfolios and outstanding guarantees were already reported in CBO’s previous baseline projections. (CBO has not reestimated those costs.)

Because CBO considers Fannie Mae and Freddie Mac government entities for purposes of its baseline budget projections, most of the cash transactions between the two GSEs and the Treasury are treated in CBO’s baseline as payments from one part of the government to another that do not affect projected deficits. (CBO makes fair-value projections for all years, including the current one, and uses them in its cost estimates. However, for certain budget projections, including those reported in its *Budget and Economic Outlook*, CBO chooses to report the cash transactions between the two GSEs and the Treasury for the current year instead of the fair-value estimate for that year. That treatment helps align CBO’s deficit estimates for the current fiscal year with those of the Administration.)

In CBO’s judgment, using a fair-value approach rather than an alternative budgetary treatment to estimate federal subsidy costs for Fannie Mae and Freddie Mac has two principal advantages. First, by incorporating market risk, that approach provides the Congress with a more comprehensive measure of the cost of supporting the GSEs in conservatorship. Second, that approach aligns the budgetary costs with the economic costs of any eventual transition to a new model for the federal role in the secondary mortgage market. For example, sales or purchases of mortgages or MBSs by Fannie Mae or Freddie Mac that took place at competitive prices during a transition would result in neither estimated gains nor losses on a fair-value basis but might appear to have significant budgetary effects under the Administration’s treatment.

Thus, the choice of budgetary treatment has implications for the budgetary effects of options to attract more private capital to the secondary mortgage market and of transitions to alternative structures for that market. Although the fair-value approach would probably show small savings from a transition (depending, at least in part, on how pricing in the private mortgage market evolves relative to the guarantee fees charged by Fannie Mae and Freddie Mac), neither the cash-basis of accounting used by the Administration nor the FCRA method would report savings. Under those methods, transitioning to greater private-sector involvement in the mortgage market would most likely result in large estimated costs.

**CBO’s Projections for the Secondary Mortgage Market**

If current policy continues and proposed regulations affecting mortgage finance are finalized as anticipated, the private mortgage market will enjoy a robust recovery over the next 10 years, CBO projects. That outlook is based on projections that the economy will continue to improve, regulatory uncertainty will be mostly resolved, house prices will rise at an average rate of about 3 percent per year in nominal terms (that is, without adjusting for the effects of inflation), and the increases in Fannie Mae’s and Freddie Mac’s guarantee fees that were made in 2011 and 2012 will reduce the two entities’ competitive advantage. The expected return of a strong private mortgage market also depends on the anticipated recovery of the private-label MBS market or the development of alternative low-cost means of financing privately backed mortgages.

Specifically, CBO projected the following developments under current policy for the 2015–2024 period in its April 2014 baseline:

1. The guarantee fees charged by Fannie Mae and Freddie Mac will average 55 basis points between 2015 and 2021 and 45 basis points between 2022 and 2024.

16. Cash payments from the GSEs reduced the deficit by $74 billion in 2014. That estimate included a $24 billion payment that Freddie Mac made to the Treasury in December 2013 to recognize a revaluation of its deferred tax assets, which was similar to the onetime payment that Fannie Mac made in fiscal year 2013.


18. For projections of the GSEs’ annual loan volumes, subsidy costs, and cash receipts over that period, see Congressional Budget Office, “Federal Programs That Guarantee Mortgages—April 2014 Baseline” (April 2014), www.cbo.gov/publication/43882.
The share of new mortgages backed by the two GSEs will drop sharply, from about 60 percent in 2013 to just under 40 percent by 2021, and then increase to slightly more than 40 percent in 2022 with the scheduled decline in guarantee fees. (The total dollar value of the new mortgages guaranteed by the GSEs will remain roughly stable, in nominal terms, for most of the next 10 years.)

The subsidy rate on GSE-backed loans (the cost, expressed as a present value, to the government of each dollar of new credit guaranteed by Fannie Mae or Freddie Mac) will decline over time because of a projected drop in risk premiums for market risk.

FHA’s market share will continue to decline as private investors’ willingness to insure mortgages increases.

The private sector’s market share will rise from about 20 percent in 2015 to 50 percent by 2024.

Only a small possibility exists that a housing crisis severe enough to lead to a larger federal presence in the mortgage market will occur during the 2015–2024 period.

The timing of the projected resurgence of private financing is subject to considerable uncertainty, which arises from many factors. For example, decisions by policymakers about the regulatory treatment of MBSs and mortgages will affect how quickly the private mortgage market reemerges as well as its ultimate size and scope. Especially important are capital requirements for banks and risk-retention requirements for securitizers, who would have to take some losses ahead of investors in the securities. In addition, new capital standards approved by the Federal Reserve in July 2013 increased the amount of capital that banks must hold, which could make all lending slightly more costly. In general, policymakers’ regulatory decisions will have less effect on Fannie Mae and Freddie Mac than on their private competitors because the GSEs receive favorable regulatory treatment. However, depending on how various regulatory issues are resolved, CBO’s assessment of the fair value of the GSEs’ guarantees could change, as could projections of their market share. Moreover, changes in the availability of credit will help determine whether house prices grow faster or more slowly than CBO projects.

**Private Market Activities**

Under the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, various federal agencies have implemented or proposed further regulations for mortgage financing. In general, those regulations are intended to strengthen incentives for making and pooling high-quality mortgages and to provide a greater cushion to absorb credit losses. The Dodd-Frank law requires lenders to verify that new borrowers have the ability to repay their loans. To comply with that requirement and classify a loan as a “qualified mortgage” under the rules recently issued by the Consumer Financial Protection Bureau, lenders consider several characteristics of the loan, including the borrower’s debt-to-income ratio.

the points and fees paid by the borrower, whether the loan has risky features (interest-only loans, for example, are prohibited), and the length of the loan term (the maximum allowable term is 30 years).

Those new rules are likely to change lending practices. Lenders may be much less willing to make loans that do not meet the standards of qualified mortgages because they might face higher capital requirements on those mortgages and would face a greater risk of being sued if borrowers of those loans defaulted. One study found that only about 10 percent of the jumbo loans securitized in 2012 were made to borrowers whose debt-to-income ratios were higher than is allowed under the qualified-mortgage rules, suggesting that lenders have already become more selective.22 In May 2013, FHFA directed Fannie Mae and Freddie Mac to purchase only loans that conform to the qualified-mortgage standards, which may further deter lenders from making loans that do not conform to those standards. In a recent Federal Reserve survey, lenders identified the ability-to-repay rules as one factor that led them to approve fewer loans for both jumbo and conforming borrowers.23

Another regulation, announced in October 2014, requires securitizers to retain 5 percent of the credit risk on an MBS, unless all of the loans underlying the security meet the credit standards for a qualified mortgage.24 As long as the two GSEs remain in conservatorship and receive capital support from the government, their MBSs meet the risk-retention requirement, so the market for those securities will not be affected. Furthermore, the regulation exempts securitizations of federally insured loans, such as those backed by FHA, from the requirement. Consequently, the private-label securitization market will bear the initial impact of the requirement. Views differ about what impact that requirement will have on the availability and cost of mortgage credit.25

It is difficult to assess the extent to which the new rules and regulations, as opposed to other factors, are discouraging banks and other firms from issuing private-label MBSs.26 Some observers argue that because Fannie Mae and Freddie Mac have a higher loan limit in high-cost areas than they do elsewhere, they have crowded out private financing for mortgages in those areas. The recent increase in both originations and securitizations of jumbo loans after that limit was lowered to $625,500 supports that argument. However, other observers argue that the problems with the private-label MBS market are more fundamental.27 Investors’ confidence in that market was shaken by losses experienced during the financial crisis, and they continue to be wary of the market for several reasons, including the lack of transparency about the mortgages underlying private-label securities, unreliable credit ratings, and the fact that the companies servicing mortgages have incentives that conflict with their own when loans are delinquent. Rather than securitize mortgages, banks could hold larger amounts of loans themselves, as they have begun to do recently—albeit on a small scale—with newly originated jumbo mortgages. To help them hold larger amounts of mortgages, banks could rely more on advances (collateralized loans) from the Federal Home Loan Banks, another

25. Earlier versions of the rule would have had more significant effects. See, for example, Federal Reserve Board, Report to the Congress on Risk Retention (October 2010), http://go.usa.gov/Bvqw; and Timothy E. Geithner, Macroeconomic Effects of Risk Retention Requirements (Financial Stability Oversight Council, January 2011), http://go.usa.gov/Bvqe (PDF, 202 KB).
housing GSE. Banks might also issue covered bonds (bonds collateralized by mortgages), a type of borrowing that many large European banks use to fund the mortgages held on their balance sheets.\textsuperscript{28} With house prices expected to trend upward, the balance sheets of lenders and investors should improve (as should borrowers’ financial positions). Consequently, CBO projects that private companies will become more willing to make new loans and demand lower fees to compensate for the credit risks they take, which will reduce Fannie Mae and Freddie Mac’s pricing advantage over their private competitors.

If investors’ confidence is slower to return than CBO expects, the agency’s projections may overestimate the recovery of the private market and the accompanying drop in federal activity (as well as the decline in the price of market risk). If, by contrast, investors’ confidence recovers more quickly than expected, CBO’s projections may underestimate those developments.

Changes in the GSEs’ Business

If the private sector bears more mortgage credit risk, the mix of new business for Fannie Mae and Freddie Mac will probably be affected. CBO expects that as market risk premiums decline over time, lenders will keep—or sell to securitizers in the private-label market—more of the mortgages taken out by borrowers with high credit scores and large down payments, most of which are currently backed by the two GSEs. (Similarly, under its current fee structure, FHA will probably lose its safest borrowers to private lenders over time.) In CBO’s baseline projections, the agency anticipates that Fannie Mae’s and Freddie Mac’s mix of new business will become riskier as the least risky mortgages are backed by private firms.

Recent developments provide some support for CBO’s expectations about the private market. Data show that some banks are starting to hold more of their safest conforming loans rather than paying guarantee fees to Fannie Mae and Freddie Mac.

Options for Attracting More Private Capital to the Secondary Mortgage Market

Policymakers are considering a range of proposals to restructure the mortgage finance system, most of which call for shrinking or eventually eliminating Fannie Mae and Freddie Mac and fostering greater participation by the private sector. Even without policy changes, the private sector’s role is expected to grow over time as the effects of the financial crisis fade. However, private companies face some barriers to participating fully in the mortgage finance system, most notably Fannie Mae’s and Freddie Mac’s below-market guarantee fees. The government-sponsored enterprises guarantee all or most of the credit risk on eligible mortgages, and the size limit for eligible mortgages is high enough to encompass most of the mortgage market. This chapter examines several mechanisms that policymakers could use to attract more private capital to the secondary mortgage market. (The various ways in which those mechanisms can be combined to help transition the market to a new structure are addressed in Chapter 3.)

To encourage a larger private role in the secondary market, policymakers could pursue several approaches:

- Raise the guarantee fees charged by Fannie Mae and Freddie Mac to lessen the pricing advantage that those institutions receive as a result of their federal backing;
- Change eligible loan limits—either reduce loan limits to decrease the share of the mortgage market that the two GSEs are allowed to guarantee or increase loan limits to complement other policy changes;
- Require the GSEs to share credit risk with the private sector so that private investors would bear some of the losses when mortgages went into default; and
- Limit the GSEs’ role by using a competitive process, such as auctions, to provide a certain quantity of mortgage guarantees to the highest bidders.

Regulators already have the power to proceed with those approaches, although the Congressional Budget Office’s baseline projections for Fannie Mae and Freddie Mac incorporate the assumption that current fee levels and loan limits will persist and that risk sharing will remain limited. (In the baseline, guarantee fees drop by 10 basis points in 2022 with the scheduled expiration of the fee increase enacted in the Temporary Payroll Tax Cut Continuation Act of 2011.)

How those mechanisms would be used would vary depending on the new structure for the secondary mortgage market that policymakers wanted to put in place. Some commentators view changes in guarantee fees and loan limits as necessary first steps in moving toward any market structure with a reduced federal presence. Risk sharing and auctions are well suited to creating market structures that would retain a federal presence but alter federal guarantees, either by restricting the scope of the guarantees (so they covered fewer mortgages or only...
catastrophic losses) or by making the guarantees widely available only during times of financial stress.

For each of the four mechanisms listed above, CBO examined several alternative options and estimated their impact on the federal government’s subsidy costs for Fannie Mae and Freddie Mac starting in 2015. Almost all of the options would result in some savings to the federal budget. CBO also evaluated the options’ likely effects on credit availability, mortgage interest rates, house prices, and the burden of risk borne by taxpayers. Additionally, the options would affect the Federal Housing Administration’s activities by causing some borrowers to shift to mortgages insured by FHA instead of by the private market. (Because the amount of FHA’s new guarantees is controlled through appropriation acts, lawmakers would have to raise the limit on new guarantees for that shift to occur. The budgetary effects on FHA from such a shift would be relatively modest under most of the options; those effects are not included in CBO’s estimates.)

**Raise Guarantee Fees**

In recent years, the Federal Housing Finance Agency has twice raised Fannie Mae’s and Freddie Mac’s guarantee fees on new loans by 10 basis points, and lawmakers have increased fees by an additional 10 basis points. In January 2014, those fees averaged about 55 basis points (0.55 percentage points) of a loan’s unpaid principal. (The estimates in this report are based on that 55 basis-point average, but the average fee has risen to around 60 basis points over the first six months of 2014 as the composition of loans has changed to include relatively more higher-risk and fewer lower-risk loans.) Policy-makers could continue to increase the two GSEs’ guarantee fees to attract new private capital to the secondary market. Those fees are passed along to borrowers, so an increase of 10 basis points in the GSEs’ guarantee fees would raise interest rates on mortgages by about 10 basis points.

Analysts disagree about how much those fees would need to rise to attract significantly greater amounts of private capital, and the answer depends in part on regulatory rules that have not yet been finalized. Because of the high credit quality of some of the GSEs’ new loans, CBO anticipates that even a small increase in guarantee fees from the present level would allow private firms to immediately compete for the highest-quality loans. The resulting decline in new guarantees by Fannie Mae and Freddie Mac would grow over time, CBO estimates, as the risk premiums that private firms charged for assuming credit risk declined. Larger fee increases would probably be needed, however, before private firms could compete for lower-quality loans currently purchased by the two GSEs. Those loans are made to high-risk borrowers, who either make smaller down payments or have lower credit scores than the typical borrower whose mortgage is guaranteed by the GSEs.

**Options**

To illustrate a range of possible outcomes, CBO estimated the potential savings and other effects of three options for permanently raising the guarantee fees charged by Fannie Mae and Freddie Mac above the levels projected under current policy (55 basis points through 2021 and 45 basis points thereafter):4

- An increase of 10 basis points beginning in 2015;
- An increase of 20 basis points phased in over two years (10 basis points in 2015 and another 10 basis points beginning in 2016); and
- An increase of 50 basis points spread over the 2015–2024 period (with a 5 basis-point rise each year).

Those increases are assumed to be assessed uniformly on borrowers whose mortgages are purchased by the two GSEs. To keep fees from dropping after 2021, when the 10 basis-point rise that took effect in 2011 is set to expire, the options would be coupled with a permanent extension of that increase.

**Effects on the GSEs’ Subsidy Costs and New Guarantees**

CBO’s estimates show that even relatively small increases in guarantee fees would have a large impact on the federal government’s subsidy costs for Fannie Mae and Freddie Mac. For example, an increase of 10 basis points would

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4. As explained in Chapter 1 (see footnote 19), although a change in the mix of borrowers caused average guarantee fees to rise to about 60 basis points last summer, that higher average would not significantly affect CBO’s budget estimates.
reduce subsidy costs over the 2015–2024 period by $10 billion—or more than half of the subsidy costs that CBO projects for the two GSEs during that period under current policy (see Table 2-1). (By itself, a permanent extension of the 10 basis-point rise in fees enacted in 2011 would reduce subsidies by $3 billion through 2024.) The timing of fee increases would affect the subsidy estimates, but under all three of the options, subsidy costs for Fannie Mae and Freddie Mac would drop to about $100 million a year or less by 2024.

A 10 basis-point increase in guarantee fees would also decrease the volume of new loan guarantees by the two GSEs by $3.1 trillion (23 percent) over the 2015–2024 period, CBO estimates. Among the fee increases that CBO examined, the gradual 50 basis-point rise would have the greatest impact on the GSEs’ new loan guarantees—reducing them by $7.4 trillion (55 percent) over the 2015–2024 period. That option would leave Fannie Mae and Freddie Mac guaranteeing less than $200 billion of new loans by 2024 (see Figure 2-1).

CBO’s estimates of subsidy costs and new guarantees reflect the shift that higher guarantee fees would bring about in the mix of borrowers whose loans are purchased by the two GSEs as lower-risk borrowers increasingly turned to private lenders, leaving the GSEs holding predominantly loans of higher-risk borrowers. Such a shift is also expected to occur at current fee levels as the private securitization market recovers, but fee increases would accelerate it. The change in the composition of loan purchases would occur because Fannie Mae’s and Freddie Mac’s fee structures do not fully reflect differences in the riskiness of borrowers, despite the fact that they charge different fees for different kinds of mortgages. In CBO’s estimation, it is that change in the mix of borrowers that would prevent subsidies from being completely eliminated by raising fees. The differential effects of fee increases on different types of borrowers could become less important, however, if Fannie Mae and Freddie Mac continued to improve their risk-based pricing.

CBO estimates that the guarantee fees currently being paid by the GSEs’ highest-quality borrowers, who make large down payments and have high credit ratings, are close to the fees that private insurers would charge those borrowers. Thus, CBO estimates that even relatively modest fee increases would reduce the volume of new GSE guarantees to some extent. However, reducing the volume of new GSE guarantees substantially in the short term would require a notable rise in fees because risk premiums on privately backed mortgages are expected to remain high for some time. Some market analysts argue that an increase of at least 20 basis points in the GSEs’ fees might be necessary to shift a significant amount of loan guarantee business to the private sector in the short term, until the private securitization market recovers further and risk premiums drop. If that view is correct, Fannie Mae and Freddie Mac might see little loss in business or change in the mix of borrowers in the next year or two from fee increases in the range of 10 basis points to 20 basis points, even though their business might decline significantly in later years. If, however, the private market recovers faster than anticipated, the volume of new GSE guarantees could fall more sharply than expected in the near term from such fee increases.

### Change Loan Limits

Some analysts argue that high dollar limits for conforming mortgages have crowded out private financing and that lower limits are a precondition for more private activity in the secondary market. Currently, the statutory limit on the size of single-family mortgages that Fannie Mae and Freddie Mac are allowed to purchase is $417,000 in most areas. In response to a sharp falloff in the availability of private financing during the financial crisis, lawmakers temporarily allowed the two GSEs to buy and guarantee mortgages up to $729,750 in areas with high housing costs. That high-cost limit fell to $625,500 in October 2011, and private markets have since taken over the financing of most new mortgages between that and the previous limit. Data show that in 2012, originations of privately backed jumbo loans rose by nearly 20 percent, to $200 billion, while the number of jumbo loans insured by FHA, whose loan limit in...

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7. Testimony of Dwight M. Jaffee, Professor of Banking, Finance and Real Estate, Hass School of Business, University of California at Berkeley, before the Senate Committee on Banking, Housing, and Urban Affairs (September 13, 2011), http://go.usa.gov/Bv4A.
Table 2-1.
Effects of Various Options for Attracting Private Capital to the Secondary Mortgage Market on Projected Fair-Value Subsidy Costs and GSE Loan Guarantees, 2015 to 2024
(Billions of dollars)

<table>
<thead>
<tr>
<th>Policy Description</th>
<th>Federal Subsidy Costs for the GSEs&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Amount of New Loan Guarantees by the GSEs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Policy</td>
<td>19</td>
<td>13,500</td>
</tr>
<tr>
<td><strong>Effects of Raising the GSEs’ Guarantee Fees&lt;sup&gt;b&lt;/sup&gt;</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fees raised by 10 basis points in 2015</td>
<td>-10</td>
<td>-3,100</td>
</tr>
<tr>
<td>Fees raised by 20 basis points (10 points in 2015 and 10 in 2016)</td>
<td>-15</td>
<td>-5,300</td>
</tr>
<tr>
<td>Fees raised by 50 basis points (5 points per year from 2015 to 2024)</td>
<td>-11</td>
<td>-7,400</td>
</tr>
<tr>
<td>Limits lowered to $417,000 by 2016</td>
<td>*</td>
<td>-700</td>
</tr>
<tr>
<td>Limits lowered to $150,000 by 2024</td>
<td>-4</td>
<td>-4,500</td>
</tr>
<tr>
<td>Limits lowered to zero by 2024</td>
<td>-5</td>
<td>-6,100</td>
</tr>
<tr>
<td>Limits raised to $729,750 in 2015</td>
<td>**</td>
<td>100</td>
</tr>
<tr>
<td><strong>Effects of Changing the GSEs’ Loan Limits</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private parties take first losses of up to 10 percent of loan balance, and guarantee fees raised by 10 basis points</td>
<td>-10</td>
<td>-3,100</td>
</tr>
<tr>
<td>Private parties take first losses of up to 20 percent of loan balance, and guarantee fees raised by 10 basis points</td>
<td>-10</td>
<td>-3,100</td>
</tr>
<tr>
<td>GSEs’ share of the market for new mortgages reduced to 25 percent by 2024</td>
<td>-10</td>
<td>-2,400</td>
</tr>
<tr>
<td>GSEs’ share of the market for new mortgages reduced to 10 percent by 2024</td>
<td>-11</td>
<td>-4,400</td>
</tr>
</tbody>
</table>

Source: Congressional Budget Office.

Notes: A basis point is 0.01 percentage point.

- GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac); * = between zero and $500 million; ** = between -$500 million and zero.

a. Excludes potential effects on federal spending for the Federal Housing Administration (FHA) and the Government National Mortgage Association (Ginnie Mae). Spending on those agencies is set through annual appropriation acts and thus is classified as discretionary spending, whereas spending on Fannie Mae and Freddie Mac is not determined by appropriation acts and thus is classified as mandatory spending. In addition, FHA’s annual commitments for new guarantees of single-family mortgages are subject to a limit set each year.

b. To avoid a drop in guarantee fees starting in fiscal year 2022, these options would permanently extend the 10 basis-point increase in the GSEs’ guarantee fees enacted in the Temporary Payroll Tax Cut Continuation Act of 2011, which is due to expire on October 1, 2021. That extension by itself would reduce subsidies through 2024 by $3 billion.

c. Estimated changes are the same for both options because those changes result from the rise of 10 basis points in guarantee fees that CBO assumed would accompany either risk-sharing option. The risk sharing itself would have little to no effect on subsidy costs or guarantees because the compensation that the GSEs would have to pay private investors to assume credit risk would generally match the benefit that the GSEs would derive from shedding that risk. However, CBO assumed that the GSEs would pass some of their costs of compensating investors on to mortgage borrowers in the form of higher guarantee fees.
high-cost areas was still $729,750, rose only slightly.8 (FHA’s loan limit fell to $625,500 in 2014.)

The Federal Housing Finance Agency is considering reducing loan limits for Fannie Mae and Freddie Mac from $417,000 to $400,000 in most areas and from $625,500 to $600,000 in high-cost areas. Those lower limits would still be much larger than most of the mortgages guaranteed by the two GSEs. For example, in the first eight months of 2011 (a period for which more detailed data were available to CBO), about 80 percent of the mortgages guaranteed by Fannie Mae and Freddie Mac were smaller than $300,000, and over half were smaller than $200,000 (see Figure 2-2). Although the average size of those guarantees has risen since then, a reduction in the GSEs’ loan limits would have to be large to have a significant impact on the secondary mortgage market.

Alternatively, an increase in loan limits might be desirable as a complement to other changes designed to increase private financing. The rationale for such a combination of changes is discussed in the next chapter.

**Options**

CBO analyzed several options for changing the size limits for conforming mortgages:

- Reducing the loan limit for high-cost areas to $500,000 in 2015 and then to $417,000—the level that existed before the financial crisis—in 2016 and thereafter.

- Gradually reducing the loan limits for all areas to $150,000 by 2024. That amount is about $20,000 lower than the mortgage that a borrower who made a 20 percent down payment would need to purchase an existing home at the median price of about $210,000 in October 2014.

- Gradually reducing the loan limits for all areas to zero. Limits would fall to $417,000 by 2016 and then decline steadily, by about $50,000 a year, until the limit reached zero in 2024, at which point the GSEs could not make any new guarantees.

- Raising the loan limits for all areas to $729,750 beginning in 2015.

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Effects on the GSEs’ Subsidy Costs and New Guarantees

In general, deeper reductions in loan limits would produce larger savings in federal subsidy costs for Fannie Mae and Freddie Mac. CBO estimates that those costs would fall by a total of about $5 billion between 2015 and 2024 if loan limits gradually declined to zero and by $4 billion over that period if loan limits gradually fell to $150,000 (see Table 2-1 on page 22).

CBO’s estimates of the impact of altering loan limits take into account changes in the credit risks posed by mortgage borrowers. In general, the creditworthiness of borrowers rises with the size of mortgages, up to some ceiling. Beyond that level, creditworthiness declines, perhaps because borrowers are stretching themselves financially to buy bigger homes. CBO’s initial analysis suggests that borrowers with mortgage balances between $417,000 and $625,500 tend to be more creditworthy as a group than other borrowers.

Thus, if loan limits were lowered to $417,000, subsidy costs would probably rise rather than fall (at least initially), CBO estimates, because the two GSEs would likely lose their most profitable group of borrowers and retain their more costly borrowers, who buy lower-priced homes. Raising loan limits to $729,750 would slightly reduce subsidy costs because borrowers at that level probably pose lower-than-average credit risks.

By altering the share of mortgages that Fannie Mae and Freddie Mac are allowed to buy, changes in loan limits would also affect the volume of new loan guarantees that the institutions make each year. That volume would fall or rise in tandem with the loan limits under the four options. New GSE guarantees, and the accompanying subsidies, would be eliminated by 2024 if loan limits declined to zero (see Figure 2-3).

Share Credit Risk With the Private Sector

Shifting some of the responsibility for losses from defaults to the private sector is another way to reduce the federal government’s role in the secondary mortgage market. In 2013, the Federal Housing Finance Agency required Fannie Mae and Freddie Mac to each initiate new risk-sharing transactions worth $30 billion as part of a transition to a more private market. Both GSEs have completed multiple transactions, and the success of those transactions has encouraged FHFA to increase the goal to $90 billion for 2014 (see the appendix for more details). The GSEs were already shifting some credit risk to the private sector. For example, their charters mandate that they require private mortgage insurance (or another form of credit enhancement) on single-family loans with down payments of less than 20 percent. In 2013, less than 20 percent of the new loans guaranteed by Fannie Mae and Freddie Mac were covered by private mortgage insurance or some other form of credit enhancement. Such insurance covers a fixed portion of the losses on the unpaid principal of a mortgage but not the entire mortgage—for example, coverage is generally 25 percent.

Figure 2-3.
Volume of New Loan Guarantees by Fannie Mae and Freddie Mac Under Different Options for Changing Their Loan Limits

<table>
<thead>
<tr>
<th>Billions of Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
</tr>
<tr>
<td>2016</td>
</tr>
<tr>
<td>2017</td>
</tr>
<tr>
<td>2018</td>
</tr>
<tr>
<td>2019</td>
</tr>
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<td>2020</td>
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<td>2021</td>
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<tr>
<td>2022</td>
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<tr>
<td>2023</td>
</tr>
<tr>
<td>2024</td>
</tr>
</tbody>
</table>

- Raise Limits to $729,750/Current Policy
- Reduce Limits to $417,000 Over Two Years
- Gradually Reduce Limits to $150,000
- Gradually Reduce Limits to Zero

Source: Congressional Budget Office.

Note: Under current policy, the increase in guarantee fees of 10 basis points (0.1 percentage point) that was authorized by the Temporary Payroll Tax Cut Continuation Act of 2011 is due to expire on October 1, 2021, which causes CBO’s baseline projection of new guarantees to jump in 2022.

a. Raising the loan limits to $727,750 would increase guarantees by an average of less than $10 billion a year; thus, the line for that option is nearly indistinguishable from the line for current policy.

of the loan balance for a 30-year fixed rate mortgage that has a loan-to-value ratio of 90 percent.

The two GSEs routinely spread credit risk to a greater extent on mortgages made to owners of multifamily properties. With such loans, Fannie Mae generally requires lenders to share the credit risk of the loans pooled into mortgage-backed securities—for example, by bearing the first 5 percent of credit losses on a loan and then sharing losses equally with Fannie Mae up to a limit. Freddie Mac takes an alternative approach: It issues multifamily MBSs that are not fully guaranteed. If a borrower defaults, investors who bought the securities must absorb a certain amount of the losses before Freddie Mac bears any.

Fannie Mae and Freddie Mac could use a variety of approaches to share the credit risk on their single-family MBSs with the private sector: They could issue securities that do not carry a full GSE guarantee, purchase insurance against credit losses, or require borrowers to obtain more private mortgage insurance. Under such arrangements, private entities or investors would be responsible for some losses before the GSEs and taxpayers were, and the two GSEs would effectively be transferring some of their guarantee income to compensate those private entities or investors for bearing those risks. The different arrangements might have different transaction costs and may vary in terms of private investors’ willingness to take part in them, but, in principle, all of them could achieve a desired level of risk sharing with the private sector. CBO’s analysis is based on a generic risk-sharing approach and does not account for the differences between various possible methods (which are discussed in the appendix). For example, although some risk-sharing approaches could directly change the amount of new GSE guarantees, CBO’s estimates do not reflect that possibility.

Risk could be shared on the basis of either individual loans or a pool of loans. That choice would have different implications for taxpayers and investors. On a pool of loans, for example, private investors might agree to cover the first 10 percent of losses, regardless of how those losses were spread among the individual loans.11 Thus, if

11. This approach was taken in the Housing Finance Reform and Taxpayer Protection Act of 2014, S. 1217, 113th Cong. (2014).
the pool contained $1 billion of loans, private investors would be responsible for the first $100 million of losses, and taxpayers would be responsible for the remainder. By contrast, if investors had to provide private mortgage insurance covering the first 10 percent of the credit risk on individual loans, they would be responsible for the first $100 million of losses only if all of the loans in the pool lost at least 10 percent, which would be unlikely. With that risk-sharing arrangement, taxpayers would bear more, and investors less, of the potential losses than they would with pool-based risk sharing.

Options
The different risk-sharing mechanisms—issuing securities that do not carry a full GSE guarantee, purchasing insurance against credit losses, or requiring borrowers to obtain more private mortgage insurance—could be used to transfer various amounts of credit risk to private parties. Those private parties would either be investors in the unguaranteed portion of the MBSs issued by Fannie Mae and Freddie Mac, insurance companies selling credit protection tied to the performance of a pool of GSE-backed loans, or private mortgage insurers selling protection to borrowers. CBO analyzed two alternative levels of sharing the GSEs’ credit risk with the private sector:

- Private parties would be responsible for losses of up to 10 percent of the principal amount of a qualifying mortgage pooled into any new MBS issued by Fannie Mae or Freddie Mac, or

- Private parties would be responsible for losses of up to 20 percent of the principal amount of a qualifying mortgage pooled into any new MBS issued by Fannie Mae or Freddie Mac.

For both options, CBO assumed that the two GSEs would pass along some of the cost of the risk sharing to borrowers. Although the process for doing that would differ according to the particular risk-sharing mechanism used, borrowers would effectively be paying higher guarantee fees. Consequently, federal subsidies would decline.

In both options, risk sharing would apply at the loan level rather than the pool level. For example, on a loan with an unpaid principal balance of $200,000 and risk sharing of up to 10 percent of that balance, private parties would bear the first $20,000 of credit losses, and Fannie Mae or Freddie Mac would bear the rest. Losses on the GSEs’ newly guaranteed mortgages that end up in default are projected to average roughly 25 percent over the next several years, meaning that the losses on a $200,000 loan in default would average $50,000, of which private parties would bear $20,000, and Fannie Mae or Freddie Mac would bear the remaining $30,000. If, as in the second option, private parties were liable for losses of up to 20 percent of the loan balance, they would bear $40,000 of the $50,000 losses, and the GSEs would be responsible for $10,000.

CBO expects that there would be enough competition among private parties to participate in such risk-sharing arrangements that the transfer of risk would occur at a cost close to the fair value of the risk. With risk sharing of up to 10 percent on each loan, private parties would require compensation equal to about 14 basis points, on average, to cover their expected losses and to provide an appropriate premium for market risk, CBO estimates. The amount that they charged for covering losses of up to 20 percent of a loan balance would be slightly more than twice that amount because as investors bore the risk of deeper losses, they would also assume a bigger share of the market risk. If the GSEs incurred large administrative and legal costs in those risk-sharing transactions, the total costs of the transactions could be slightly higher than fair value. (As explained below, whether those costs affected federal subsidies for the GSEs would depend on whether the GSEs passed them on to mortgage borrowers.)

As conditions in housing and financial markets evolved over time, the price that private investors would charge to assume some of the GSEs’ credit risk would also change. Consequently, under these two options, Fannie Mae and Freddie Mac would be allowed to adjust their guarantee fees whenever the cost of risk sharing shifted. That flexibility would make fees and interest rates on GSE-backed mortgages more volatile but would keep federal subsidies fairly stable.

Effects on the GSEs’ Subsidy Costs and New Guarantees
If Fannie Mae and Freddie Mac transferred credit risk in transactions that occurred at fair value, risk sharing would have little or no effect on the federal government’s subsidy costs for the two GSEs. That would be the case regardless of the amount of risk shared: If the transactions occurred at fair value, the benefit that the GSEs derived from shedding some credit risk would exactly offset the price they paid private investors for assuming that risk. In other words, the income from guarantee fees that they
passed on to private investors as compensation would be balanced by the reduction in the cost of their expected losses.

Federal subsidies would decline, however, if the price that private entities charged for risk sharing encouraged the two GSEs to reduce the extent to which they subsidized mortgage borrowers. If, for example, the GSEs raised guarantee fees by 10 basis points (and permanently extended the 10 basis-point increase enacted in the Temporary Payroll Tax Cut Continuation Act of 2011 that expires in 2021) in conjunction with the risk-sharing initiatives, federal subsidy costs would be $10 billion lower over the 2015–2024 period than they would be under current policy, CBO estimates (see Table 2-1 on page 22). That reduction from the 10 basis-point increase in guarantee fees would be the same whether the amount of risk being shared was 10 percent of a loan’s balance or 20 percent. Although CBO assumed a 10 basis-point fee increase for these options, the GSEs could change the amount of the investor-compensation costs they passed on to borrowers as the fair value of the transactions changed with market conditions and the cost of risk sharing. By 2024, annual subsidy costs for Fannie Mae and Freddie Mac would be about $100 million under both options, and the two GSEs would guarantee about $1 trillion of new loans annually.

The higher guarantee fees under those options would encourage some borrowers to seek private alternatives. As a result, CBO estimates, the volume of new guarantees by Fannie Mae and Freddie Mac would drop by $3.1 trillion (about 23 percent) over the 2015–2024 period. For that estimate, CBO anticipates that all of the change in the volume of GSE guarantees would stem from higher guarantee fees, so the change would be the same whether the GSEs shed 10 percent or 20 percent of their risk.

CBO’s estimates of savings from the risk-sharing options take into account the possibility that in some instances a portion of the risk shed by Fannie Mae and Freddie Mac could come back to them in the form of counterparty risk—the chance that other parties to a transaction will not be able to meet their obligations. For example, if the two GSEs required more private insurance coverage for some mortgages, it is possible that the private insurers could default on their obligations. Because such counterparty risk would lessen the extent to which these risk-sharing options would reduce federal subsidy costs, CBO incorporates that risk into its estimates.

The biggest advantage of sharing more credit risk with the private sector is that Fannie Mae’s or Freddie Mac’s expected losses from a default on a mortgage would drop significantly, which would directly reduce the government’s exposure to risk. In addition, as long as the mechanism for shifting risk was transparent and the process was competitive, the prices paid in those transactions would give regulators and lawmakers additional signals about the cost of mortgage risk. One major potential disadvantage of sharing credit risk with the private sector is that doing so would increase private parties’ systemic risk—the risk that those parties’ failure could be detrimental to the financial system and the economy. The magnitude of that change in systemic risk would vary, depending on the particular risk-sharing approach used.

Use Auctions to Limit Guarantees

Policymakers could control the size of the GSEs’ role in the market by requiring Fannie Mae and Freddie Mac to use an auction process to provide guarantees on limited quantities of new mortgages. Using an auction mechanism to determine which mortgages would be guaranteed and securitized would replace the current approach—guaranteeing all eligible loans submitted by lenders at predetermined fee levels. Auctions offer the potential advantage of indicating the market price of mortgage risk more accurately than regulators can estimate that price. In addition, auctions would allocate the GSEs’ guarantees to the eligible lenders that placed the most value on having their loans guaranteed.

Fannie Mae and Freddie Mac could periodically auction off a limited number of guarantees that might cover 100 percent of the credit risk associated with a mortgage. Under such a process, the GSEs would announce the number of mortgages they would guarantee, as well as any other restrictions they might have, and lenders would submit bids indicating how much they would pay to have their pools of mortgages guaranteed. Lenders would be
willing to bid on the guarantees because loans that were not federally backed would have to be either held on their balance sheets or securitized privately at greater cost. The size of the auctions would control the GSEs’ exposure to risk, and the eligibility requirements would determine how broad a range of mortgages could be guaranteed. The auctions would be held periodically to allow the quantity and price of the GSEs’ guarantees to adjust to market conditions.

In an efficient auction, the winning bidders for credit guarantees would be the financial institutions that placed the highest value on those guarantees. Because the bidders would have diverse pools of loans with different degrees of riskiness, such auctions could pose a challenge. If the auction mechanism failed to control for differences in risk, Fannie Mae and Freddie Mac could end up with the riskiest loans in the bidding pool without receiving adequate compensation for their guarantees. Auctions could control for observable differences in credit risk among loans, however, by using a predetermined set of publicly announced criteria that were based on such characteristics as loan-to-value ratio, the borrower’s credit score, the size of the loan, and its maturity. Under such an auction process, the institutions that incurred larger costs from holding certain types of mortgages would be willing to pay more to have those mortgages guaranteed and thus would submit higher bids. Consequently, if the auction process was properly designed, it would cause Fannie Mae and Freddie Mac to guarantee loans from the financial institutions that valued such guarantees the most rather than just guaranteeing the pools of loans with the highest risks.13

Options

CBO analyzed two options for using auctions to control the size of the GSEs’ role in the secondary mortgage market. Under either option, Fannie Mae and Freddie Mac would determine which mortgages to guarantee and at what price by periodically auctioning off a set amount of guarantees. The GSEs would auction off progressively smaller amounts over time.

The two options differ in the extent of the decrease in the GSEs’ share of the mortgage market:

- Phasing in a reduction in the GSEs’ share of the mortgage market to 25 percent by 2024, or
- Phasing in a reduction in the GSEs’ share of the mortgage market to 10 percent by 2024.

Unlike the other options discussed in this chapter, which would begin in 2015, the auctions would not be fully implemented until 2016. CBO incorporated a one-year delay because the auctions might need to be tested on a small scale before becoming a major part of the GSEs’ operations.

Effects on the GSEs’ Subsidy Costs and New Guarantees

Reducing the share of new mortgages guaranteed by Fannie Mae and Freddie Mac from over 60 percent in 2013 to much lower percentages would significantly decrease the federal government’s subsidies for the two GSEs. CBO estimates that subsidy costs over the 2015–2024 period would be $10 billion lower if the GSEs’ market share gradually declined to 25 percent—or $11 billion lower if their market share declined to 10 percent—than those costs would be under current policy (see Table 2-1 on page 22). The volume of new loans guaranteed by Fannie Mae and Freddie Mac during that period would be reduced by 18 percent under the first option and by 33 percent under the second option (see Figure 2-4).

Although bids in a competitive auction could be high enough to eliminate government subsidies for loan guarantees, CBO anticipates, for several reasons, that most of the auctions through 2024 would yield bids that involve some degree of subsidy. The auctions would sell a relatively large number of guarantees in the early years, which would reduce competition for the last guarantee and deter firms from bidding at a level that involved no subsidy. (As the amount of guarantees declined over time and auctions became more competitive, firms would probably bid more aggressively, and bids would approach a non-subsidized level.) Another reason some subsidies might persist is that mortgage markets are fairly concentrated and dominated by a small number of large banks; thus, some auctions would not be highly competitive, particularly if certain banks specialized in a type of mortgage available for guarantee. In addition, subsidies might persist because of unobserved differences in the mortgage

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Figure 2-4.
Volume of New Loan Guarantees by Fannie Mae and Freddie Mac Under Different Options for Auctioning Their Guarantees

 Bills of Dollars

Source: Congressional Budget Office.
Notes: Under current policy, the increase in guarantee fees of 10 basis points (0.1 percentage point) that was authorized by the Temporary Payroll Tax Cut Continuation Act of 2011 is due to expire on October 1, 2021, which causes CBO’s baseline projection of new guarantees to jump in 2022.
These options would not begin until 2016, to allow time for any implementation issues with auctions of the GSEs’ guarantees to be resolved.
GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac).

pools being guaranteed. (Over time, however, the auction mechanism might correct for those unobserved differences.)

CBO expects that bidding in the auctions would raise Fannie Mae’s and Freddie Mac’s guarantee fees in the first few years by up to 5 basis points, pushing them closer to fair-value levels. Because bids would probably be more aggressive if fewer guarantees were available, guarantee fees on individual loans would most likely be slightly higher under the option that aimed for a 10 percent market share in 2024 than under the option with a 25 percent target. Fees might rise by less if the auction process was poorly designed or if only a few firms participated.

CBO’s estimates do not take into account any delays or difficulties that could arise in setting up the auctions.

Broader Effects of the Options on the Housing Market and Taxpayers

Compared with current policy, reducing the federal presence in the secondary mortgage market would reduce federal subsidies for mortgages. As a result, that approach would probably make credit less available, raise interest rates on mortgages, put downward pressure on house prices, and decrease the amount of credit risk borne by taxpayers. The continued availability of mortgages insured by FHA would provide a safety net for borrowers whom the private market was unwilling to serve at an affordable cost.

Mortgage Interest Rates and Availability of Credit

Raising Fannie Mae’s and Freddie Mac’s guarantee fees and sharing credit risk would increase the cost of credit because the higher fees paid by lenders would probably be passed on to mortgage borrowers in the form of higher interest rates. The effects on most borrowers would be modest, however. For example, if fees rose by 20 basis points, the monthly payment on a 30-year fixed rate loan of $200,000 would increase by $25 a month. Borrowers would still have access to credit, although at a higher cost.

In contrast, auctioning the guarantees would both raise the cost of credit and reduce its availability.
Reducing Fannie Mae’s and Freddie Mac’s loan limits would raise the cost of credit and possibly lessen its availability for mortgages between the current and new limits. In the short run, interest rates for most borrowers of such mortgages could be higher than the rates on jumbo loans (which were up to 50 basis points higher than the rates on GSE-backed loans in 2013 but were generally less than 10 basis points higher than those rates in the first 11 months of 2014). Most of the affected borrowers would pay more than the jumbo rate because they are less creditworthy than the typical borrower of a jumbo loan. Currently, lenders generally require borrowers in the jumbo market to make larger down payments and have higher credit scores than the average borrower of a conforming loan. The premiums charged by private mortgage insurers also imply that those borrowers would face higher mortgage interest rates. If rate increases ranged between 10 basis points and 50 basis points, the monthly payment on a 30-year fixed rate loan of $500,000 would rise between $30 and $150. Rate increases on jumbo loans would probably be lower over the long run as more private capital entered the secondary market and mortgage risk premiums fell. Less creditworthy borrowers would probably face even larger increases in interest rates if they qualified for private-sector financing.

### House Prices

Changes in interest rates can affect the price of housing through several channels—with potentially offsetting effects—but the net impact is that higher rates generally put downward pressure on house prices. Higher interest rates lead to higher monthly mortgage payments, potentially reducing the size of loans for which borrowers could qualify. Those forces reduce the demand for housing and thereby cause house prices to decline or to grow less quickly than they would if interest rates were lower. At the same time, however, changes in interest rates can affect the supply of housing by altering developers’ financing costs, the amount of new construction, and expectations about future growth in house prices.

CBO cannot confidently predict the extent to which higher interest rates might push down house prices under any of the options discussed in this chapter because estimates of how sensitive such prices are to changes in interest rates are uncertain and vary with financial conditions. Estimates of the decline in house prices following a rise of 1 percentage point in the real (inflation-adjusted) interest rate range from as little as 1 percent to as much as 8 percent in the medium term. (In the long run, the decline in prices is likely to be smaller as the supply of housing adjusts to higher interest rates by contracting.) Consequently, if interest rates for homebuyers borrowing more than the proposed loan limits rose by 25 basis points, prices for the homes that such borrowers typically purchase would be expected to appreciate between 0.25 percent and 2 percent more slowly than under current policy.

Reducing loan limits would have a larger impact on home prices in areas with high housing costs, such as California, than it would in lower-cost areas. If policymakers wanted such a change to have more uniform effects, they could allow Fannie Mae’s and Freddie Mac’s loan limits to vary with local house prices, as FHA’s loan limits and the two GSE’s limits in high-cost areas currently do. Although setting such variable limits would mute the effects on high-cost areas, many lower-cost parts of the country could see sizable drops in their limits for conforming mortgages.

### Financial Risks to Taxpayers

Encouraging the private sector to play a larger role in the secondary mortgage market would reduce taxpayers’ exposure to risk from Fannie Mae’s and Freddie Mac’s activities. Taxpayers would still face some risk, however,

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from the federal safety net that covers banks and other large financial institutions. That safety net includes federal deposit insurance and any implicit guarantees that the federal government will come to the aid of major financial institutions—as it did during the most recent financial crisis. That aid protected many uninsured creditors of large financial institutions from losses and supported the continued availability of credit to households and businesses, though at great potential costs to taxpayers.

More stringent regulations (such as those stemming from the Dodd-Frank Act of 2010 and included in the proposed Basel III international agreement) are expected to impose higher capital requirements on large banks. Those regulations might better protect taxpayers from the risks of such banks’ failures by reducing both the probability and the cost of those failures. Because large banks hold more diversified portfolios of assets and more capital than do Fannie Mae and Freddie Mac, they may pose less risk to taxpayers than do the two GSEs. Moreover, community banks and other small institutions might take on some of the mortgage risk from the GSEs without much risk to taxpayers.

**FHA Guarantees**

CBO expects that most mortgage borrowers who would no longer qualify for loans backed by the GSEs under these options would opt for private-sector financing instead. However, some would choose, or qualify only for, mortgages insured by the Federal Housing Administration. Such a shift in financing would still decrease the overall amount of risk borne by taxpayers, but the form of that risk would change slightly, which would have consequences for the federal budget.

Raising Fannie Mae’s and Freddie Mac’s guarantee fees would make loans insured by FHA more attractive to some borrowers. The new borrowers most likely to opt for FHA loans would be those with poor credit histories or small down payments. The large majority of borrowers who can make a 20 percent down payment—and thus avoid the cost of private mortgage insurance on GSE-backed loans—would be unlikely to choose FHA loans under any of the options for raising guarantee fees that CBO analyzed. Those borrowers would find private financing cheaper, even though CBO expects FHA’s fees to decline under current policy, as the private sector recovers, toward the levels that existed before the financial crisis.

To determine which borrowers might shift from GSE- to FHA-backed mortgages, CBO compared how, under the options for raising guarantee fees, total fees (including premiums for private mortgage insurance) would differ for borrowers in different risk categories on the basis of their credit scores and down payments. That comparison suggests that if policymakers increased Fannie Mae’s and Freddie Mac’s guarantee fees by 10 basis points (and permanently extended the 10 basis-point increase in fees that is set to expire in 2021), about 5 percent of borrowers who might otherwise have had GSE-backed mortgages would have FHA-insured loans instead by 2024. That figure would be 10 percent if the GSEs’ guarantee fees gradually increased by 50 basis points over the 2015–2024 period. Even with the projected decline in FHA’s fees, private financing would still be less expensive than FHA financing for most borrowers.

With changes in loan limits or a decline in the volume of new GSE guarantees as part of an auction process, CBO estimates that, initially, about 10 percent of the borrowers who were affected by those changes might switch to FHA financing because credit standards, including typical down payments, would remain high for loans above the conforming limit. As credit conditions in the private sector loosened over time, more borrowers would gain access to the private market. If that market recovered more quickly than CBO expects, fewer borrowers would shift to FHA. By contrast, if the availability of credit in the private market remained limited, the amount of FHA activity might rise substantially (assuming that appropriation actions were consistent with the increase in demand for FHA loans).

That analysis suggests that budgetary effects on FHA would be relatively modest under most of the options discussed in this chapter but would be more significant under options that led to large fee increases or sizable reductions in loan limits. Those effects are discussed in more detail in the next chapter.

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Mechanisms such as higher guarantee fees, lower loan limits, risk-sharing requirements, and auctions of loan guarantees could be used in various ways to move the secondary mortgage market away from its current structure—dominance by two large government-sponsored enterprises in federal conservatorship—toward a new configuration. Selecting a new structure for the secondary market would involve making choices about the mix of public and private capital, the scope of any federal guarantees, and the role of the government during a financial crisis, among other considerations.

The Congressional Budget Office has analyzed potential transitions to four alternative structures for the secondary mortgage market:1

- A secondary market with a single, fully federal agency that would guarantee eligible mortgage-backed securities and leave taxpayers exposed to most of the credit risk on those securities;
- A hybrid public-private market in which the government and private investors would share the credit risk on eligible MBSs, with private investors bearing initial losses on those securities and the federal guarantee covering only catastrophic losses (an arrangement under which taxpayers would bear much of the risk of loss in a crisis and private investors would bear most of the risk in other periods);
- A secondary market in which the government plays a small role during normal times but acts as guarantor of last resort by fully guaranteeing most new mortgages during a financial crisis (at which time it would absorb all losses and gains on the securities based on those mortgages); and
- A largely private secondary market with no federal guarantees.

With any of those structures, the secondary market could continue to rely on securitization and other funding alternatives. The market could also retain roles for the Federal Housing Administration and other federal agencies that insure or guarantee mortgages, as well as for the Government National Mortgage Association, which offers securitization of mortgages for federal agencies. Private companies would continue to back mortgages that were ineligible for a federal guarantee, and the federal government could extend any explicit guarantee it might provide on qualified MBSs to covered bonds in order to promote more competition and greater diversity in mortgage funding.2


Each of those four market structures would have its own advantages and disadvantages in the following areas: ensuring a stable supply of financing for mortgages, protecting taxpayers from risk, providing incentives to control risk taking in the mortgage finance system, and making the allocation of credit risk between the government and the private sector transparent.³ This chapter discusses those advantages and disadvantages, as well as the key choices that policymakers would face in moving the market toward the new structures.

For each structure, CBO designed an illustrative transition path that involved choosing a specific set of options to attract private capital. The options selected for a particular path would move the secondary market toward a balance between public and private capital that is consistent with the market structure in question. The transition paths, which were designed to be implemented between 2015 and 2024, consist of hypothetical sets of policies that include various combinations of the mechanisms discussed in the previous chapter—increases in guarantee fees, reductions in loan limits, sharing of credit risk, and auctions (see Table 3-1). In practice, policymakers could choose many other ways to use and combine those options, and they could alter the timetable to reach a given market structure sooner or later. Their choice of which options to use would be somewhat limited, however, by the structure that they hoped to transition to, as certain options are essential to bringing about a given structure.

CBO analyzed the effects of each of the hypothetical transition paths on federal subsidy costs, the volume of new loan guarantees by Fannie Mae and Freddie Mac, the availability of credit, and other economic factors over the 2015–2024 period (see Table 3-2). The analysis reflects the assumptions that Fannie Mae and Freddie Mac would remain under federal control during that period and that the fair-value approach would be used to estimate the budgetary costs of subsidies for federal loan guarantees (as described in Chapter 1). Any new federal entities included in a particular market structure are assumed to begin operating in 2025, after the transition is completed. (Those entities would most likely be accounted for in the budget differently than are Fannie Mae and Freddie Mac because, unless the Congress specified otherwise, any new federal agency that provided an explicit federal guarantee under any of the options discussed here would be subject to the accounting method outlined in the Federal Credit Reform Act.) Whenever practical, CBO designed the transition paths so that the volume of new GSE guarantees at the end of the period would roughly match the desired federal share of the market under the new market structure. Consequently, in each of the illustrative paths, the market share for the two GSEs at the end of the transition period is assumed to be the starting point for any successor federal entities. Policymakers could, however, choose to aim for different market shares than those illustrated here.

Moving to a new structure for the secondary mortgage market would have implications for house prices, mortgage interest rates, and the activities of the Federal Housing Administration, among other things. New structures might also require decisions about what to do with the current operations and investment portfolios of Fannie Mae and Freddie Mac. Those other transition issues are discussed in Chapter 4. Any transition would probably also raise legal and regulatory issues that would take some time to resolve and are outside the scope of this analysis.

If changes such as those described in the transition paths were made in the next few years, care would need to be taken not to disrupt the housing and mortgage markets further. The sharp decline in house prices that occurred between 2006 and 2012 left many homeowners owing more on their mortgages than their homes are worth. As a result, foreclosure rates remain high, and obtaining a mortgage continues to be difficult for many people. A gradual, 5- to 10-year transition to a new market structure has a better chance of avoiding disruption in the housing and mortgage markets than does a more rapid shift. If, however, housing markets strengthened considerably, the risks associated with a faster transition would be lessened. One advantage of a faster transition is that it would reduce federal subsidies and the amount of mortgage credit risk borne by taxpayers more quickly than would a slower transition.

### Transition to a Market With a Single, Fully Federal Agency

One approach for structuring the secondary mortgage market is to create a government agency to carry out the

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# Table 3-1.

**Key Features of CBO's Illustrative Transition Paths to a New Structure for the Secondary Mortgage Market**

<table>
<thead>
<tr>
<th>Key Policy Changes</th>
<th>Current Policy (GSEs remain in conservatorship)</th>
<th>Transition to a Market With a Single, Fully Federal Agency</th>
<th>Transition to a Hybrid Public-Private Market</th>
<th>Transition to a Market With the Government as Guarantor of Last Resort</th>
<th>Transition to a Largely Private Secondary Market</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GSEs' Guarantee Fees</strong>&lt;sup&gt;a&lt;/sup&gt;</td>
<td>Current fee schedule, including 10 basis-point drop in 2022, remains (Fees averaged 55 basis points in January 2014)</td>
<td>No changes</td>
<td>Raised by 10 basis points starting in 2015&lt;sup&gt;b&lt;/sup&gt;</td>
<td>Set by auction; would probably rise by less than 10 basis points for most years</td>
<td>Raised by 20 basis points in 2015 and by 5 basis points annually from 2017 to 2022, for a total increase of 50 basis points&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>GSEs' Loan Limits</strong>&lt;sup&gt;c&lt;/sup&gt;</td>
<td>$625,500 in high-cost areas, $417,000 elsewhere</td>
<td>Reduced to $417,000 in all areas</td>
<td>Reduced to $417,000 in all areas</td>
<td>Raised to $729,750 in all areas</td>
<td>Gradually reduced to zero</td>
</tr>
<tr>
<td><strong>Sharing of Credit Risk</strong>&lt;sup&gt;d&lt;/sup&gt;</td>
<td>Private mortgage insurance required for borrowers with less than 20 percent down payment</td>
<td>No changes</td>
<td>Investors take first losses from defaults of up to 10 percent of principal of new mortgages; GSEs guarantee against catastrophic losses</td>
<td>No changes</td>
<td>No changes</td>
</tr>
<tr>
<td><strong>Auctions of New GSE Guarantees</strong></td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>First held in 2016; amount of new GSE guarantees auctioned off gradually reduced until GSEs cover only 10 percent of the market in 2024</td>
<td>None</td>
</tr>
</tbody>
</table>

Source: Congressional Budget Office.

Notes: A basis point is 0.01 percentage point.

- **GSEs** = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac).
- **a.** In exchange for guaranteeing the timely payment of interest and principal on a mortgage, the GSEs receive fees from the lender (or the company servicing the lender's loans).
- **b.** In this transition path, the 10 basis-point increase in the GSEs' guarantee fees enacted in the Temporary Payroll Tax Cut Continuation Act of 2011, which is due to expire on October 1, 2021, is assumed to be extended permanently.
- **c.** Lawmakers have limited the size of mortgages that are eligible to be included in pools of loans guaranteed by the GSEs.
- **d.** In this case, sharing credit risk means that private parties absorb some amount of losses from loan defaults before the GSEs are required to do so.
Table 3-2.

Probable Effects of CBO’s Illustrative Transition Paths on Subsidy Costs, Loan Guarantees, the Availability of Credit, and Other Aspects of the Mortgage Market

<table>
<thead>
<tr>
<th>Transition to a Market With a Single, Fully Federal Agency</th>
<th>Transition to a Hybrid Public-Private Market</th>
<th>Transition to a Market With the Government as Guarantor of Last Resort</th>
<th>Transition to a Largely Private Secondary Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Subsidy Costs for the GSEs</td>
<td>Slight increases throughout the transition</td>
<td>Reduced to nearly zero by the end of the transition</td>
<td>Reduced to zero by the end of the transition</td>
</tr>
<tr>
<td>Volume of New Loan Guarantees by the GSEs</td>
<td>Small declines throughout the transition</td>
<td>Moderate declines throughout the transition</td>
<td>Reduced to zero by the end of the transition</td>
</tr>
<tr>
<td>Availability of Credit During a Financial Crisis</td>
<td>Not affected</td>
<td>Less available</td>
<td>Less Available</td>
</tr>
<tr>
<td>Other Aspects of the Mortgage Market</td>
<td>Federal government would maintain control of a large segment of the capital market</td>
<td>The GSEs’ credit losses from defaults would drop significantly</td>
<td>Financial institutions would have the strongest incentive to be prudent in their lending and securitizing</td>
</tr>
</tbody>
</table>

Source: Congressional Budget Office.

Notes: These effects are relative to CBO’s projections of outcomes during the 2015–2024 period under current policy.

GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac).

primary function now performed by Fannie Mae and Freddie Mac: providing explicit federal guarantees that promise timely payment of interest and principal on qualifying mortgages and MBSs that meet specified criteria. (The new agency’s operations could share many features with the current activities of FHA and Ginnie Mae.) The cost of the federal agency could be covered, in whole or in part, by charging guarantee fees. Private entities would continue to provide financing for mortgages that were not eligible for a federal guarantee, but they would probably struggle to compete with the federal agency for most eligible mortgages unless government subsidies were eliminated.

Advantages and Disadvantages of the Structure

A federal guarantee agency could have some advantages over alternative market structures that rely on the private sector. For example, a government agency is more likely than are private investors to ensure a fairly steady flow of funds to the secondary mortgage market—both in normal times and during periods of financial stress—by minimizing uncertainty about the strength of federal guarantees. Moreover, most of the federal subsidies would probably flow to mortgage borrowers rather than to private financial institutions.

At the same time, however, creating a federal guarantee agency would strengthen government control of a large segment of the capital market, which may have negative consequences. Just how large that share would be depends on how the guarantees were priced and which mortgages were eligible for them. Such an arrangement may prove disadvantageous because the government has less incentive than do private parties to charge guarantee fees that cover costs (on a fair-value basis), so some borrowers would probably still be subsidized by taxpayers. Furthermore, taxpayers, rather than private financial institutions, would continue to bear much of the credit
risk on guaranteed mortgages.\footnote{Under the “severely adverse scenario” stress test that is required under the Dodd-Frank Act, the Federal Housing Finance Agency estimates that the GSEs could require additional federal assistance ranging from $84 billion to $190 billion. See Federal Housing Finance Agency, Projections of the Enterprises’ Financial Performance (April 30, 2014), \url{http://go.usa.gov/pjsz}.} That risk-bearing arrangement might give mortgage originators and other financial intermediaries less incentive to control risk—a situation (known as moral hazard) that commonly arises with guarantees and insurance—that they would have under the alternative structures.

**Key Policy Changes During the Transition**

The transition from Fannie Mae and Freddie Mac to a fully federal agency could be accomplished without making any structural changes to guarantees, raising guarantee fees, or altering loan limits because no significant amounts of new private capital would be required. However, policymakers might opt to raise guarantee fees or lower the limits for conforming loans closer to the levels that existed before the financial crisis in order to reduce federal subsidies and modestly expand the private sector’s role. Conversely, some policymakers might favor lowering guarantee fees to slow or stop the decline in the federal role that is projected to occur under current policy.

**Illustrative Transition Path and Its Effects**

In CBO’s illustrative path to transition from the two GSEs in conservatorship to one fully federal agency, one or both of the GSEs would remain in place during the 2015–2024 period. By the end of that period, some of their operations would be folded into a new or existing federal agency, while others could be sold to the private sector (see the discussion at the end of Chapter 4). Although CBO assumed for consistency that the transition to any of the new market structures discussed in this chapter would take place by 2024, a much shorter transition period might be sufficient to create a federal agency.

Under CBO’s hypothetical path, policymakers would lower the GSEs’ loan limits to $417,000 by 2016 but would keep guarantee fees at their current levels (those fees would still decline by 10 basis points beginning in 2022, as scheduled under current law). That path, CBO projects, would reduce Fannie Mae and Freddie Mac’s total market share slightly, to about 40 percent by the end of the transition period, bringing the GSEs’ share a bit closer to its average during the years before the financial crisis. The new federal agency would begin operating with that market share.

If CBO’s transition path was followed, federal subsidy costs for the GSEs and interest rates on mortgages would probably be similar to those under current policy for most of the transition period. (However, if Fannie Mae and Freddie Mac were consolidated during the transition and issued a single set of MBSs, the liquidity of those securities would be enhanced, which could raise the price of MBSs and reduce interest rates to some extent. Currently, investors are willing to pay more for MBSs issued by Fannie Mae, which have become much more liquid than securities issued by Freddie Mac.)\footnote{Mortgage Bankers Association, Ensuring Liquidity Through a Common, Fungible GSE Security (May 2013), \url{http://tinyurl.com/oym3mu6} (PDF, 48 KB).} The reduction in loan limits would cause the total volume of new guarantees made by the GSEs during that 10-year period to be $700 billion, or 5 percent, less than it would be under current policy, CBO projects (see Table 3-3 and Figure 3-1). Federal subsidies on GSE-backed mortgages over that period are projected to be only slightly higher (by less than $500 million) than under current law because Fannie Mae and Freddie Mac would probably lose their most profitable borrowers in the first few years of the transition. When the transition was completed, the interest rates paid by borrowers would depend on how the government chose to price its guarantees.

**Transition to a Hybrid Public-Private Market**

Another way to structure the secondary mortgage market is to decrease the federal government’s role and increase the private sector’s role while maintaining a combination of public and private financing. A key feature of such a hybrid system is that a federal guarantor and the private sector would share mortgage credit risk. For example, the government would help ensure a steady supply of mortgage financing by providing explicit guarantees on privately issued mortgages or MBSs that met certain qualifications. But private capital, and possibly private mortgage insurance, would absorb some credit losses before the government guarantee was invoked.

Proposals for a hybrid public-private structure vary widely, involving broader or narrower guarantees and more or less regulation of participants in the secondary
Table 3-3.
Effects of CBO’s Illustrative Transition Paths on Projected Fair-Value Subsidy Costs and GSE Loan Guarantees, 2015 to 2024
(Billions of dollars)

<table>
<thead>
<tr>
<th>Current Policy</th>
<th>19</th>
<th>13,500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CBO’s Baseline</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transition to a Market With a Single, Fully Federal Agency</td>
<td>*</td>
<td>-700</td>
</tr>
<tr>
<td>Transition to a Hybrid Public-Private Structure With Catastrophic Federal Guarantees</td>
<td>-10</td>
<td>-3,600</td>
</tr>
<tr>
<td>Transition to a Market With the Government as Guarantor of Last Resort</td>
<td>-11</td>
<td>-4,400</td>
</tr>
<tr>
<td>Transition to a Largely Private Secondary Market</td>
<td>-15</td>
<td>-10,200</td>
</tr>
</tbody>
</table>

Source: Congressional Budget Office.

Notes: For a description of the policy changes included in the illustrative transition paths, see Table 3-1. Those changes would begin in fiscal year 2015.

GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac); * = between zero and $500 million.

a. Excludes potential effects on federal spending for the Federal Housing Administration (FHA) and the Government National Mortgage Association (Ginnie Mae). Spending on those agencies is set through annual appropriation acts and thus is classified as discretionary spending, whereas spending on Fannie Mae and Freddie Mac is not determined by appropriation acts and thus is classified as mandatory spending. In addition, FHA’s annual commitments for new guarantees of single-family mortgages are subject to a limit set each year.

market. Some proposals call for the federal government to explicitly bear only catastrophic credit risks of the secondary market—an approach the government uses to reinsurance commercial properties against the risk of terrorism. Some proposals call for the federal government to explicitly bear only catastrophic credit risks of the secondary market—an approach the government uses to reinsurance commercial properties against the risk of terrorism. Catastrophic mortgage risks are those associated with severe downturns in the housing market. Policy-makers could attempt to set federal guarantee fees at levels that would eliminate any subsidies. After the transition to the new structure was complete, Fannie Mae and Freddie Mac (or their successors) could be privatized and could compete with other private firms to securitize mortgages. Alternatively, the two GSEs could be liquidated, with some of their operating systems and nonfinancial assets sold to private firms. Other parts of their operations could be transformed into a new federal guarantor or merged into FHA or Ginnie Mae, which could provide guarantees against catastrophic losses.


For this analysis, CBO assumed a transition to a structure under which any private financial institution that met certain regulatory criteria would be allowed to package and sell federally guaranteed MBSs backed by a pool of eligible mortgages. Some liquidity might be lost by having several companies, rather than just the current two, issue federally backed MBSs unless those issues were standardized (as might be the case if a common securitization platform was created). However, the market would be less dependent on any one or two companies. (Financing for mortgages not eligible for federal backing would remain purely private, and the market for private-label MBSs with no government guarantees would continue.)

CBO also assumed that the federal government would provide a secondary, or catastrophic, guarantee, which would be exercised only after private capital had borne an initial amount of losses. If that initial amount was set high enough, taxpayers would bear significant losses only during periods of financial stress. During a financial crisis, however, the secondary market would still be vulnerable to a retreat by private investors, which could make it difficult for homebuyers to obtain new mortgages. To reduce the chances of that happening, policymakers could lower the amount of credit risk that private investors are expected to hold for the duration of the crisis. Such a step would allow the government’s guarantee to play a more stabilizing role in the secondary market.

Advantages and Disadvantages of the Structure
With private capital bearing initial credit losses, a hybrid approach would have the advantage of reducing costs and risks to taxpayers. Furthermore, private financial institutions would probably have stronger incentives to be prudent in their financing and their pricing of risk than the two GSEs have under conservatorship. Compared with establishing a fully federal agency, a hybrid public-private approach would alleviate concerns about putting a large portion of the capital market under government control. Compared with a predominantly
private secondary market, a hybrid structure would probably improve the liquidity of the market, especially during times of financial stress.

Relying on explicit government guarantees of qualifying mortgages would, however, have some disadvantages. First, if competition remained limited—with only a few specialized firms participating in the secondary market—then any single firm's financial difficulties would pose a risk to the entire financial system. Second, experience with other federal insurance and credit programs suggests that the government would have trouble setting risk-sensitive guarantee fees and would most likely end up imposing some cost on taxpayers and exposing them to risk. (That concern would be lessened if market mechanisms such as auctions were used to set fees, provided that those mechanisms were efficiently designed.) Third, with a hybrid structure, mortgage financing might be less available during periods of market stress than it would be in a market with a fully federal agency or with the government acting as guarantor of last resort (as discussed below).

**Key Policy Changes During the Transition**

Policymakers would need to make some critical design choices about the structure of a public-private system. During the transition to that system, the main change from the status quo would be that Fannie Mae and Freddie Mac would share the credit risk on their mortgages with private investors. Policymakers might also want to reduce the number of mortgages that the entities guaranteed—by raising fees or lowering loan limits for the two GSEs, for example—so that private firms would capture a larger share of the market. Alternatively, policymakers could aim for a guarantee structure that exposed private investors to smaller initial losses and thus exposed the federal government to more frequent and larger losses. The various proposals made for a hybrid structure have called for a wide range of market shares for the federal government and different types of federal guarantees with different amounts of risk sharing. In addition, policymakers could decide that a narrower or broader range of mortgages would be eligible for federal guarantees rather than retaining the current eligibility criteria for conforming mortgages.

**Illustrative Transition Path and Its Effects**

CBO created a transition path that combines higher guarantee fees and lower loan limits with risk-sharing provisions to allow Fannie Mae and Freddie Mac to shed the first 10 percent of the losses they now bear on individual mortgages. (If the market responded well to that change in the allocation of risk, the amount of risk shifted to the private sector could be increased as the transition progressed.) CBO estimates that the cost of the risk sharing—the amount of compensation that private investors and firms would require to assume that part of the two GSEs’ risk—would be equivalent to about 14 basis points per year. Anticipating that policymakers would require the GSEs to absorb some of that cost but that they would pass most of it on to mortgage borrowers by raising guarantee fees, CBO based its estimates on an increase of 10 basis points in those fees. That increase, combined with a permanent extension of the 10 basis-point increase that is currently set to expire after 2021, would significantly reduce projected subsidy costs for new loan guarantees by Fannie Mae and Freddie Mac in most years. (Because policymakers could choose to adjust guarantee fees for changes in the price that private investors demanded for sharing risk, the actual increase in fees could be higher or lower.) Under the illustrative path, policymakers would also reduce the maximum size for conforming loans to $417,000 nationally by 2016, eliminating the special limit for high-cost areas.

Under a hybrid structure that incorporated federal guarantees against catastrophic losses, those guarantees would probably cover a much smaller share of the market than do Fannie Mae’s and Freddie Mac’s current guarantees. That is because, in CBO’s judgment, private investors probably would not need a federal catastrophic guarantee to back the mortgages of most borrowers, at least outside periods of market stress. Borrowers with good credit scores and high down payments would very likely find private financing more attractive than federally backed loans. In the event of default, losses on those loans would most likely be relatively small and would not pose solvency risks to private firms. (Borrowers with low credit scores or low down payments present greater risks, however, and investors might want a federal guarantee against catastrophic losses to cover those loans.) The illustrative path would therefore reduce the GSEs’ market share to about 27 percent by the 2024. If policymakers desired a higher or lower market share, they could use auctions to expand or limit the supply of guarantees.

If CBO’s transition path was followed, Fannie Mae and Freddie Mac would issue about 27 percent fewer new loan guarantees between 2015 and 2024 than they would under current policy, primarily because of the higher fees associated with risk-sharing provisions. Those higher fees would raise interest rates on GSE-backed mortgages by
10 basis points for most of the period. Federal subsidy costs for Fannie Mae and Freddie Mac would be $10 billion lower over those 10 years than they would be under current policy (see Table 3-3 on page 38). (Those estimates reflect the assumption that the GSEs’ financial activities would continue to be accounted for on a fair-value basis during the transition. If, instead, their transactions were estimated under a FCRA basis during the transition, then the estimate would be considerably different. See Box 3-1.) In addition, the GSEs’ expected losses from mortgage defaults would be 35 percent lower than they would be under current law, CBO estimates, accounting for the possibility that private-sector entities might not be able to meet all of their risk-sharing obligations. By the end of the transition period, federal subsidies for Fannie Mae and Freddie Mac would be well below $500 million per year, and the interest rates that borrowers would face for new mortgages eligible for federal guarantees would be close to market rates (depending on how closely the government set its guarantee fees to those in the competitive market).

Policymakers could change the amount of risk that taxpayers were exposed to during the transition by adjusting both the amount of risk shifted to the private sector and the fees passed on to borrowers. For example, policymakers could reduce taxpayers’ risk by increasing the extent of risk sharing and by raising guarantee fees.

Transition to a Market With the Government as Guarantor of Last Resort

A third possibility for restructuring the secondary mortgage market is to establish a federal agency that would act as a final backstop, or guarantor of last resort, during periods of financial stress. During normal times, private securitizers and banks would provide most of the funding for mortgages and bear most of the risks. However, the federal agency would maintain a continual presence in the market by guaranteeing a small share of all MBSs so that it would gain experience valuing a representative range of mortgages. That experience would help the government set its guarantee fees appropriately when, during a financial crisis, its presence expanded to cover most new MBSs. Such an expansion of the government’s role could be tied to a significant drop in private mortgage lending or to some other triggering event. Once a crisis passed, the volume of new guarantees made by the federal agency would decline.

The new federal entity could be fashioned from Fannie Mae or Freddie Mac. Because it would usually operate on a much smaller scale than either of those GSEs, some of the two GSEs’ operations could be sold (either liquidated or privatized). Alternatively, the Federal Housing Administration or Ginnie Mae could act as the guarantor of last resort.

Policymakers would use auctions, or some other competitive process, to set prices for federal guarantees and limit the number of those guarantees to a small share of the market—about 10 percent—in good times. During a crisis, however, the federal guarantor could set the size of auctions so as to cover a much higher percentage of MBSs. The size of the share of eligible loans the government chose to guarantee during a crisis could affect whether the bids in a competitive auction were high enough to eliminate most or all federal subsidies for loan guarantees. If, for example, the government faced pressure to guarantee all eligible mortgages, lenders would have little incentive to raise their bids, and the winning bids would probably include a subsidy (on a fair-value basis), assuming that the government set the minimum bid below the unsubsidized level. But if the size of the auctions remained a small fraction of the eligible market, firms would have to raise their bids to win guarantees. Those bids would probably reach fair-value levels and eliminate subsidies.

A market with the government as guarantor of last resort would differ from a hybrid public-private market with federal guarantees against catastrophic losses in two main ways. First, because the government would provide a full guarantee (at least during times of crisis) rather than a catastrophic guarantee, taxpayers would be exposed to all losses on newly guaranteed mortgages, without private firms’ sharing any of the credit risk. Second, the federal guarantor would have little exposure to risk on loans guaranteed before a crisis because of its small market share in normal times. In some respects, that role resembles the one that FHA and Ginnie Mae played during the most recent financial crisis, except that the government

Box 3-1. Accounting for a New Federal Guarantor

The Federal Credit Reform Act of 1990 (FCRA) specifies the procedures to be used for recording the budgetary impact of most of the federal government’s loan and loan guarantee programs. The FCRA accounting method is a present-value method for estimating subsidy costs that uses Treasury borrowing rates to discount expected future cash flows—that is, to translate future cash flows into a single, current-dollar estimate. Unless lawmakers specified an alternative budgetary treatment, the cost of the loan guarantees provided by a new federal guarantor would be accounted for in the budget in accordance with FCRA.

The Congressional Budget Office (CBO) does not currently account for the cost of the loan guarantees made by Fannie Mae and Freddie Mac on a FCRA basis; rather, it accounts for the activities of the two government-sponsored enterprises (GSEs) on a fair-value basis. In CBO’s assessment, fair-value estimates provide a more comprehensive measure of cost than FCRA estimates because they incorporate the costs that private investors attach to financial risks by using market rates, rather than Treasury rates, to discount expected future cash flows. The costs of those risks are generally higher than the expected losses that are included in the FCRA estimates. CBO uses the same fair-value accounting methods to estimate the costs of administering the Troubled Asset Relief Program (as specified by the legislation that established the program) that it uses to account for the GSEs’ activities (for which no guidance was provided in statute), but it uses FCRA accounting for other federal mortgage guarantee programs, such as those operated by the Federal Housing Administration.¹

For estimates of the effects of policy alternatives in this report, CBO assumed that the cost of loan guarantees provided by Fannie Mae and Freddie Mac would continue to be accounted for on a cost-value basis (as they are in CBO’s current estimates) and that no new federal guarantor would be in place until after the 10-year period that CBO typically uses for its cost estimates.

Lawmakers might, however, choose to have a new federal guarantor start operations during the transition or to account for Fannie Mae and Freddie Mac under FCRA accounting. Either of those actions would affect CBO’s cost estimates of legislation to establish a new federal guarantor.

CBO’s recent cost estimate for S. 1217, the Housing Finance Reform and Taxpayer Protection Act of 2014—a bill that would create a hybrid public-private structure with federal guarantees against catastrophic losses—illuminates the potential impact of different accounting measures for the federal guarantee on mortgage-backed securities (MBSs).² Under that bill, CBO projects, Fannie Mae and Freddie Mac would stop guaranteeing new MBSs at the end of 2019. Thereafter, a new entity, the Federal Mortgage Insurance Corporation (FMIC), would provide catastrophic federal guarantees for eligible MBSs in return for fees, but those guarantees would require federal payments only after private capital absorbed some of the losses. Because of the features of the bill, the government would take on less risk over the 2020–2024 period under FMIC guarantees than it would if the GSEs continued to operate as they do currently.

Under current law, CBO estimates, the mortgage guarantees offered by Fannie Mae and Freddie Mac over the 2020–2024 period will result in a positive subsidy cost of about $5 billion, calculated on a fair-value basis. Over that same period, CBO estimates, the guarantees offered by FMIC would result in savings to the federal government (that is, a negative subsidy cost) of about $47 billion, calculated using FCRA accounting. Those widely divergent budgetary effects are explained partly by the different terms of the guarantees offered by those entities. Most of the difference, however, stems from the two different accounting methods—FCRA and fair-value—used to determine the costs of the guarantees that would be offered by FMIC or the GSEs. In its cost estimate for S. 1217, CBO provides the changes in mandatory spending on both a FCRA basis as required by law and a fair-value basis as additional information.

¹ For an analysis of the advantages and disadvantages of fair-value accounting, see testimony of Douglas W. Elmendorf, Director, Congressional Budget Office, before the House Committee on Financial Services, Estimates of the Cost of the Credit Programs of the Export-Import Bank (June 25, 2014), www.cbo.gov/publication/45468.
would guarantee MBSs backed by a full range of mortgages rather than just mortgages with low down payments.

**Advantages and Disadvantages of the Structure**

An advantage of limiting the government's role to guarantor of last resort is that it would mitigate a potentially critical shortcoming of the mortgage market: the inability of the private sector to provide a steady flow of credit during a financial crisis. Using auctions to determine guarantee fees would also help address the weak incentive that the government has traditionally had to price guarantees or set federal insurance premiums that reflect the full cost of those activities.

A major disadvantage of that approach, compared with risk sharing, is that the government would have to pay the full amount of any losses for all of the guarantees assumed during a crisis. Thus, taxpayers could be exposed to most of the credit risk from mortgages originated in a crisis. Moreover, how adroit a federal entity would be in responding to a crisis and then letting its role diminish is uncertain.

**Key Policy Changes During the Transition**

Auctions, or some other competitive process, would be a key component of the government’s transition to being the guarantor of last resort. During that transition, policymakers could require Fannie Mae and Freddie Mac to begin experimenting with auctions in order to gain the experience with risk-based pricing that would be necessary for guaranteeing a representative sample of mortgages. (If, instead of adjusting guarantee fees for the riskiness of borrowers, the two GSEs raised fees uniformly for all borrowers, they would gradually lose their lowest-risk borrowers to the private sector.) Policymakers could also raise Fannie Mae’s and Freddie Mac’s loan limits to expand the pool of borrowers eligible for federal guarantees, which would give the GSEs experience pricing a broader range of mortgages.

If only a full federal guarantee can ensure stability in a crisis—which is a matter of contention—sharing risk with private investors during periods of financial stress would undermine that stability. Risk sharing could, however, be a viable option in normal times.

**Illustrative Transition Path and Its Effects**

For this analysis, CBO selected a transition path under which policymakers would use auctions to gradually reduce Fannie Mae and Freddie Mac’s total market share to about 10 percent by 2024—a target that is consistent with minimizing the government’s role in the secondary market during normal periods. The start of the transition would be delayed until 2016 to allow more time to test auctions before getting them up and running on a large scale. For simplicity, CBO assumed that the volume of guarantees sold in the auctions would be large initially but would then shrink steadily. Under the path, policymakers would raise the limit on conforming loans to $729,750 nationwide in 2016. (Alternatively, regulators could begin by having Fannie Mae and Freddie Mac auction off guarantees on mortgages between $417,000 and $729,750 as early as 2015.)

With auctions limiting access to GSE-backed mortgages, the volume of new guarantees by Fannie Mae and Freddie Mac during the 2015–2024 period would be about 33 percent lower under the illustrative path than it would be under current policy, CBO projects. (However, if a financial crisis occurred during the transition to this market structure, Fannie Mae and Freddie Mac would see a large increase in their activity.) If the auctions were well designed, federal subsidy costs for new guarantees over that period would be reduced by $11 billion (see Table 3-3 on page 38). By 2024, the GSEs’ new guarantees would amount to less than $400 billion a year, and federal subsidies would be nearly eliminated. After the transition was completed, most mortgage borrowers would pay market interest rates during normal times, when the federal guarantor of last resort played a small role in the market. Interest rates might, however, fall below market levels during times of financial crises, when the guarantor played a larger role.

How far guarantee fees would rise and subsidies would fall in normal times with this market structure would depend on how well the bidding process worked. CBO expects that guarantee fees would probably be up to 5 basis points higher than under current policy in most years, which would increase interest rates on GSE-backed mortgages by a similar amount. Federal subsidies would not be completely eliminated, CBO projects, because mortgage originators would have more information about the quality of their loans than would Fannie Mae and Freddie Mac. (Despite the required disclosures about the composition of loan pools, all risk factors on a loan would probably still not be fully apparent.) The pools of eligible mortgages that the GSEs guaranteed might therefore be of lower-than-expected quality (at least initially).
Furthermore, if the GSEs sold a relatively large number of guarantees (as they would need to do in the early years of the transition to avoid shrinking the federal presence too quickly), firms might be deterred from bidding at a level that involved no subsidy. Firms might also bid less aggressively if there were only a small number of competitors. It is possible, however, that bids could be high enough in all of those cases to eliminate subsidies.

**Transition to a Largely Private Secondary Market**

At the opposite end of the spectrum from a secondary market dominated by the government is a market that is left mainly to the private sector, with no explicit federal guarantees of MBSs. In this analysis, CBO assumes that FHA, the Department of Veterans Affairs, and the Rural Housing Service, whose loans are all securitized by Ginnie Mae, would continue to guarantee mortgages. To achieve a market structure without other direct federal involvement, lawmakers could gradually phase out the operations of Fannie Mae and Freddie Mac, or they could sell the federal stake in the two GSEs’ assets to private investors. Either way, the market for mortgage-backed securities would ultimately be dominated by private firms—just as are the markets for securities backed by other types of assets (the markets for automobile, student, commercial real estate, and credit card loans, for example).

In times of severe distress, the government could still step in to ensure the availability of financing in the mortgage market. For instance, it could make FHA guarantees available to more borrowers, or it could buy private-label MBSs. Expanding the activities of federal agencies in those circumstances, however, would generally require Congressional action.

**Advantages and Disadvantages of the Structure**

Of the market structures that CBO analyzed, privatization would probably provide the strongest incentive for financial institutions to be prudent in their lending and securitizing because private investors, rather than taxpayers, would bear all losses. (On the other hand, the enormous losses that have occurred in recent years on private-label subprime mortgages, which are not federally guaranteed, offer a clear reminder that private markets are not immune to aggressive risk taking.) Furthermore, by increasing competition in the secondary market, a privatization approach would reduce the market’s reliance on the viability of any single firm. A private market may also be best positioned to allocate the credit risks and interest rate risks of mortgages efficiently, and it would be more innovative than a secondary market with a fully federal agency playing a prominent role. The lack of a federal backstop might encourage financial institutions and their regulators to seek out other forms of stable, long-term financing for mortgages, such as covered bonds (which many European banks use to fund the mortgages they hold), as an alternative to securitization.

Full privatization could have several drawbacks, however, including the possibility that a private secondary market might be significantly less liquid than a market with some federal backing, especially during periods of acute financial stress. For example, in the most recent crisis, private securitization virtually ceased, and issuance of privately financed mortgages severely contracted, leaving less than 10 percent of new mortgage credit privately backed in 2009. That sharp contraction in the availability of private mortgage credit hurt economic growth and probably contributed to lower house prices, despite a significant increase in federally guaranteed credit.

In addition, committing to a policy of nonintervention in the mortgage market might not prove credible if the availability of mortgage credit is disrupted in the future. If the private firms operating in the secondary market were seen as critical to the functioning of the mortgage finance system, investors might again treat them as


implicitly guaranteed by the federal government. That perception could cause investors in the firms’ securities to demand less compensation for risk than they would otherwise, which in turn could encourage the firms to take on too much risk, thus weakening the financial system.

Implicit federal guarantees would also reduce transparency. The costs and risks of those guarantees to taxpayers would not appear in the federal budget, so policymakers would have difficulty assessing them.

**Key Policy Changes During the Transition**

Policymakers could begin to attract private capital to the secondary mortgage market by raising Fannie Mae’s and Freddie Mac’s guarantee fees and lowering their loan limits. Those changes could continue until the GSEs’ share of the market for new mortgage guarantees reached zero. Policymakers could also expand risk-sharing opportunities beyond those currently envisioned by regulators, although such a change would not be essential for privatization.

**Illustrative Transition Path and Its Effects**

CBO analyzed a transition path in which policymakers would gradually raise guarantee fees by 50 basis points over the 2015–2024 period—starting with a 20 basis-point increase in 2015, no change in 2016, and then 5 basis-point increases in each of the following six years—and gradually reduce Fannie Mae’s and Freddie Mac’s loan limits to zero by 2024. Those policy changes would cause the volume of new GSE guarantees during that period to be 75 percent lower than it would be under current policy, CBO estimates. In the early years of the transition, the higher fees for GSE backing would contribute to that decline by giving borrowers an incentive to find cheaper private financing. Later in the period, the decrease in the GSEs’ loan limits would reduce borrowers’ alternatives.

That illustrative path would reduce projected subsidy costs for new GSE guarantees made during the 2015–2024 period by $15 billion (see Table 3-3 on page 38). Moreover, the rise in guarantee fees would cause interest rates on GSE-backed mortgages to increase steadily during that period until they reached market rates, closing the spread between rates on privately backed and federally backed mortgages.

Under that illustrative path, no new guarantees by Fannie Mae or Freddie Mac would be made—and therefore no further subsidy costs would be incurred—after 2023, thus completing the transition to a fully private market for new mortgages. Thereafter, interest rates on new mortgages would remain at market levels.
A transition to any of the new structures for the secondary mortgage market that are discussed in Chapter 3 would affect mortgage borrowers, the housing market, and the Federal Housing Administration. Those effects would vary depending on the magnitude of the decline in federal subsidies, the degree of the market’s reliance on the private sector, and the speed of the transition. As long as the transition was gradual, the impact on mortgage interest rates and house prices should be moderate—probably smaller than the fluctuations in interest rates and house prices that occur in most years. In addition, to reduce the possibility of disruptions in the availability of credit, policymakers could make the pace of the transition contingent on how the private sector responded.

Although Fannie Mae and Freddie Mac would continue to guarantee mortgage-backed securities throughout each of the transitions analyzed in this report, moving from a market so reliant on those two government-sponsored enterprises to any new structure would involve making decisions about what to do with their operating assets as well as their existing investment portfolios and guarantee obligations. Specifically, policymakers would need to decide whether the two GSEs’ operating assets would be kept for use by a federal agency or auctioned off to private firms, and they would also need to decide whether the GSEs’ sizable portfolios and obligations would be retained by the government or transferred to private investors.

Effects of the Transitions on Mortgage Borrowers and the Housing Market
Under any of the transitions that CBO examined, the agency expects that most borrowers would still be able to take out 30-year fixed rate mortgages. During a transition, reducing subsidies for the GSEs’ loan guarantees would reduce the availability of mortgage credit, raise the interest rates that borrowers pay on new mortgages, and decrease house prices (see Table 4-1). Those effects would probably be mitigated by at least two factors. First, CBO projects that private financing of mortgages will gradually rise over the course of any of the 10-year transitions as the housing market recovers and conditions in financial markets normalize. Second, the GSEs’ fees under current policy will be very close to those that a private guarantor would charge by 2024, CBO anticipates, which means that most borrowers who took out mortgages at the end of a transition would receive terms that were roughly comparable to those in the baseline.

Depending on the transition, the increase in interest rates would probably range between 5 and 60 basis points for most borrowers, CBO estimates, and as a result, house prices might be as much as a 2.5 percent lower than they would be under current policy. In addition, the increase in interest rates would reduce investment in housing, but because the increase is expected to be less than 60 basis points for most borrowers—and significantly less for many—the reduction in housing investment relative to the baseline would probably be modest. Generally speaking, the magnitude of each of those effects would be largest in the transition to a mainly private market and smallest in the transition to a market with a fully federal agency. During any transition, lawmakers might also want to provide some flexibility to regulators to respond to unexpected changes in market conditions in order to lessen the possibility of disruptions in mortgage availability.

Although not included in this report, other issues that policymakers would have to address before a transition are the extent of the GSEs’ involvement in the smaller secondary market for mortgages on multifamily properties and their role in promoting housing for low-income people.
**Table 4-1.**

Probable Effects of CBO’s Illustrative Transition Paths on the Mortgage and Housing Markets

<table>
<thead>
<tr>
<th></th>
<th>Transition to a Market With a Single, Fully Federal Agency</th>
<th>Transition to a Hybrid Public-Private Market</th>
<th>Transition to a Market With the Government as Guarantor of Last Resort</th>
<th>Transition to a Largely Private Secondary Market</th>
</tr>
</thead>
<tbody>
<tr>
<td>Availability of 30-Year Fixed Rate Mortgages</td>
<td>Not affected</td>
<td>Not affected</td>
<td>Widely available when the securitization market is liquid; probably disrupted when the market is frozen</td>
<td>Widely available when the securitization market is liquid; probably disrupted when the market is frozen</td>
</tr>
<tr>
<td>Interest Rates for Most Borrowers of GSE-Backed Mortgages</td>
<td>Not affected (Slight increases throughout the transition on loans without GSE backing)</td>
<td>Small increases throughout the transition</td>
<td>Small increases throughout the transition (Larger increases on loans without GSE backing)</td>
<td>Moderate increases by the end of the transition (Larger increases throughout the transition period on loans without GSE backing)</td>
</tr>
<tr>
<td>House Prices</td>
<td>Not noticeably affected</td>
<td>Slightly lower throughout the transition</td>
<td>Slightly lower by the end of the transition</td>
<td>Slightly lower by the end of the transition</td>
</tr>
<tr>
<td>Investment in Housing</td>
<td>Underpricing of risk would persist, continuing the current overallocation of capital toward housing</td>
<td>Underpricing of risk would decrease, reducing the allocation of capital toward housing</td>
<td>Underpricing of risk would decrease, reducing the allocation of capital toward housing</td>
<td>Underpricing of risk would decrease, reducing the allocation of capital toward housing</td>
</tr>
<tr>
<td>Volume of Loans Insured by FHA</td>
<td>Small increases throughout the transition</td>
<td>Moderate increases throughout the transition</td>
<td>Moderate increases throughout the transition</td>
<td>Large increases by the end of the transition</td>
</tr>
</tbody>
</table>

Source: Congressional Budget Office.

Notes: These effects are relative to CBO’s projections of outcomes during the 2015–2024 period under current policy.

GSEs = government-sponsored enterprises (specifically, Fannie Mae and Freddie Mac); FHA = Federal Housing Administration.

**Availability of 30-Year Fixed Rate Mortgages**

During a transition, banks would probably continue to make 30-year fixed rate mortgages widely available as long as the securitization market was large and liquid, whether or not that market had government backing. Therefore, such mortgages would remain prevalent in either a market with a fully federal guarantee agency or a hybrid public-private market. However, in a market in which the government acted only as guarantor of last resort or in one that was largely private, the availability of long-term fixed rate mortgages would depend on the state of private securitization markets. In the past, when the liquidity of private-label MBSs was strong, 30-year fixed rate mortgages were widely available in the jumbo market. But when private securitization froze during the financial crisis, originations of fixed rate jumbo mortgages dropped disproportionately.

Long-term fixed rate mortgages offer borrowers who plan to stay in their current residences for many years a predictable payment schedule and the opportunity to refinance if interest rates fall. Those same features expose banks and investors (including those holding MBSs guaranteed by Fannie Mae and Freddie Mac) to considerable

risk and make such mortgages difficult to evaluate and price: If interest rates fall unexpectedly, borrowers tend to pay off their loans ahead of schedule in order to refinance at lower rates. Banks are therefore more likely to originate 30-year fixed rate mortgages when those loans can be securitized, which removes the credit, interest rate, and prepayment risks from their balance sheets. As a result, if securitization opportunities declined under a transition either to a structure in which the government acts as guarantor of last resort or to a largely private secondary market, 30-year fixed rate mortgages would be likely to carry higher interest rates and be more susceptible to disruptions in supply than mortgages that are easier for investors to evaluate and price.

Unlike European borrowers, who tend to favor adjustable rate mortgages, U.S. borrowers have generally shown a strong preference for the predictable payment schedules of 30-year fixed rate mortgages and have therefore been willing to pay somewhat higher interest rates for such loans than they would have had to pay for adjustable rate mortgages.2 That preference may have been influenced by government policy, which, by making the secondary market more liquid, has tended to subsidize 30-year fixed rate loans more than other types of mortgages. (Because banks and thrifts can more readily hold adjustable rate mortgages than fixed rate mortgages on their balance sheets, rates on adjustable rate mortgages are less affected by the added market liquidity that comes from the GSEs’ securitization of mortgages.) Some borrowers who take out fixed rate loans but who anticipate moving or refinancing might actually be better off with an adjustable rate mortgage than with a fixed rate mortgage because they pay a premium for the long-term predictability of that fixed rate.

Interest Rates
Each of the illustrative transition paths described in Chapter 3 would leave at least some categories of borrowers facing higher interest rates during the transitions than they would face under current policy.3 The rate increases would vary across borrowers and would depend on what type of transition path was chosen.

The increase in interest rates for a given borrower would depend on the type of mortgage financing sought by the borrower and on his or her creditworthiness:

- Borrowers who took out mortgages guaranteed by the two GSEs would generally face rates that were comparable to those they would pay under current policy or were slightly higher because of increases in guarantee fees.

- Low-risk borrowers who chose to take out privately backed mortgages because increases in guarantee fees raised the cost of GSE-backed loans above the cost of loans offered in the private market would generally face only slightly higher mortgage rates during a transition than they would with GSE-backed mortgages under current policy. The increase in the rates they paid would be small because those borrowers receive very small subsidies under current policy.

- Average borrowers who relied on privately guaranteed mortgages—whether because their mortgages exceeded the GSEs’ reduced loan limits or because they were deterred by the GSEs’ higher guarantee fees—would experience rate increases that were greater than those experienced by low-risk borrowers but still moderate.

- Less creditworthy borrowers who lost access to GSE-backed financing during a transition would probably fare significantly worse than they would under current policy because the GSEs’ guarantees currently provide them with significant subsidies. Those high-risk borrowers would probably also see a decrease in the availability of mortgages as private firms would have somewhat tighter lending standards than the two GSEs—requiring higher down payments, for example—but many of those borrowers could turn to FHA loans instead.

The effects on interest rates would also depend on the type of transition policymakers chose to make:

- In a transition to a market with a single, fully federal agency, borrowers who took out GSE-backed mortgages would face mortgage rates comparable to those they would pay on GSE-backed mortgages.

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3. Rates would rise further during the transitions if policymakers increased capital requirements for banks and guarantors or imposed additional fees to fund affordable housing initiatives.
under current policy. Borrowers who were forced into private financing by policymakers’ lowering of loan limits would pay higher rates than they would under current policy, but that increase would be only slight because those borrowers tend to be low risk and therefore receive the smallest subsidies from the GSEs under current policy.

In a transition to a hybrid public-private market, borrowers who took out mortgages backed by the GSEs would face rates that were no more than 20 basis points higher than they would be under current policy. For borrowers who were forced into private financing by the lowering of loan limits, the increase in rates relative to those under current policy would be slight, for the reason just described.

In a transition to a market in which the government acts as guarantor of last resort, borrowers who took out mortgages backed by the GSEs would face rates that were about 5 basis points higher than they would be under current policy, CBO estimates. Because auctions of GSE-backed guarantees would limit their supply, by the end of the transition most borrowers would rely on private financing and would therefore face higher rates. Depending on market conditions, those increases would, according to CBO’s estimates, range from 10 basis points to 60 basis points for most borrowers, with higher-risk borrowers facing the largest increases.

In a transition to a largely private market, borrowers who took out GSE-backed loans early in the transition would pay interest rates that were 20 basis points higher than they would pay under current policy. That differential would continue to increase, so by 2024, borrowers who took out federally backed mortgages would face rates that were 60 basis points higher than they would be under current policy. However, most borrowers would switch to private financing during the transition and would face rates between 10 basis points and 60 basis points higher than under current policy, CBO estimates, with higher-risk borrowers facing the largest increases.

Holding all else equal, those increases in interest rates would raise monthly mortgage payments, increasing the potential for borrowers to default on their loans, reducing the demand for houses, and leaving borrowers with less income to cover other expenses. The effects would, however, tend to be modest for borrowers who continued to obtain GSE-backed loans because the expected interest rate increases for those borrowers are fairly small. For example, a 10 basis-point increase in guarantee fees—and thus in interest rates—would raise the monthly payment on a $200,000 30-year fixed rate mortgage by less than $15. By contrast, borrowers who turned to private financing would experience more significant rate increases and therefore larger increases in monthly payments. A 30 basis-point increase, for example, would raise the monthly payment on a $200,000 mortgage by about $40.

Even those larger increases would still be smaller than the fluctuations in market interest rates that occur in most years. For example, rates on conforming 30-year fixed rate mortgages rose from less than 3.5 percent in January 2013 to 4.5 percent in July of that year, or more than 100 basis points. Mortgage rates moved a little less during the first 11 months of 2014, when they stayed between 3.9 percent and 4.5 percent, a range of 60 basis points.

Some other analysts expect that a transition to a largely private market could cause mortgage interest rates for the average borrower to rise by 100 basis points or more, which is a significantly larger increase than CBO projects. Those analysts argue that attracting more private capital to mortgage markets would require significantly higher rates of return on MBSs and mortgages than private investors or banks currently receive, and that to improve those returns, banks would incorporate higher risk premiums into the interest rates they charged borrowers. But if rates rose as significantly as some analysts predict, borrowers would be more likely to switch from fixed rate mortgages to lower-cost adjustable rate


mortgages, whose rates are less affected by conditions in the securitization markets.

Moreover, it is also possible that transition paths that led to greater involvement of the private sector in the secondary mortgage market might make the market for private-label MBSs more liquid than CBO anticipates. If that was the case, the increases in interest rates would be less than CBO expects.

**House Prices**

Increases in mortgage interest rates that resulted from the transitions analyzed in this report would cause house prices to increase at a slower rate than they would under current policy, but in CBO’s view, it is unlikely that they would lead to outright declines in house prices. Analysts have estimated that a 1 percentage-point increase in real rates could reduce house prices by anywhere from 1 percent to 8 percent of what they would be under current policy. On the basis of those estimates, CBO projects that the transitions would have the following effects:

- In a transition to a market with a single, fully federal agency, house prices would show no noticeable effects.
- In a transition to a hybrid public-private market, house prices would be lower than they would be under current policy by no more than 1 percent during most of the transition and by as much as 2 percent at the end of the transition.
- In a transition to a market in which the government acts as guarantor of last resort, house prices would probably be affected more significantly than they would be under the preceding two transitions. If interest rates for the average borrower increased by about 30 basis points, house prices could be as much as 2.5 percent lower than under current policy.
- In a transition to a largely private market, house prices would be affected to about the same degree as in a transition to a market in which the government acts as guarantor of last resort. If interest rates for the average borrower increased by about 30 basis points, house prices could be as much as 2.5 percent lower than under current policy. However, in the unlikely event that a crisis occurred during the transition, the effects could be much greater.

A number of other factors are likely to affect house prices more significantly than the changes in interest rates brought about by the transition paths discussed in this report, especially in the current environment. Those factors include changes in lending standards, the inventory of unsold homes, the volume of foreclosures and other distressed sales, the supply of new housing, the growth of income, unemployment rates, and expectations about future changes in house prices. Potential changes in tax provisions could also have a significant impact on house prices.

**Investment in Housing**

Federal subsidies for mortgage guarantees lead to the underpricing of mortgage risk and therefore distort the allocation of capital in the economy, shifting some investment toward housing that might otherwise go to business equipment and structures that increase the productivity of workers. Some advocates for those subsidies maintain that home ownership gives households a greater stake in their communities, making those communities more stable. However, the slightly below-market guarantee fees that the GSEs now charge do little to boost rates of home ownership because down payment requirements are a bigger barrier to home ownership than the size of monthly mortgage payments and because the subsidized guarantee fees are probably largely capitalized in house prices and thus do not make housing much more affordable for new purchasers.

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8. Ron J. Feldman, “Mortgage Rates, Homeownership Rates, and Government-Sponsored Enterprises,” *The Region*, Federal Reserve Bank of Minneapolis, vol. 16, no. 1 (April 2002), pp. 5–23, http://tinyurl.com/k5wasy2. Moreover, other aspects of government policy affect borrowers more significantly than does the magnitude of guarantee fees. For example, the subsidies that are provided by the tax treatment of home ownership are significantly larger than those that flow through the two GSEs—although those subsidies are also largely capitalized in house prices. For a related discussion, see Larry Ozanne, *Taxation of Owner-Occupied and Rental Housing*, Working Paper 2012-14 (Congressional Budget Office, November 2012), www.cbo.gov/publication/43691.
Of the four transitions that CBO analyzed, the transitions to a fully private market or to a market with the government as guarantor of last resort would bring about the largest reductions in federal subsidies and therefore the greatest shifts of capital away from housing and to other investments. However, because the increases in interest rates under even those transitions are expected to be moderate, the reductions in housing investment relative to the baseline would probably be modest. A transition to a market with a fully federal agency playing a prominent role would have little effect on the allocation of capital because federal subsidies would be little changed. And a transition to a hybrid public-private structure would cause smaller reductions in housing investment than would a transition to either a structure under which the government acted as guarantor of last resort or to a fully private market.

Potential Market Disruptions During the Transition to a New Structure

If a transition to a new structure for mortgage finance led to an unexpected contraction of mortgage availability or to a sharp spike in mortgage rates, the economic costs could be high. A key concern about transitioning to a largely private secondary market is that it might fail to ensure a stable supply of mortgage credit during periods of financial stress. During such occasions, uncertainty about the solvency of private guarantors could erode confidence in private credit guarantees, causing mortgage interest rates to rise sharply. The adverse effects of such a rise on the housing market would deepen economic distress.

One approach to preventing such an outcome would be to make the pace of the transition conditional on changes in the availability of private mortgage credit. For example, instead of reducing Fannie Mae’s and Freddie Mac’s loan limits all at once or by preset amounts each year, lawmakers could specify a flexible reduction schedule that would give regulators the discretion to respond to unexpected changes in mortgage credit conditions: Loan limits could be lowered more quickly if credit was widely available and more slowly if credit was more limited.

Effects of the Transitions on the Federal Housing Administration

All of the illustrative transition paths that CBO examined would reduce the amount of credit risk backed by the government through the GSEs or successor agencies. The government’s overall exposure to risk would not decline by a commensurate amount, however, because some of the borrowers who would have GSE-backed mortgages under current policy would turn to FHA-insured single-family loans instead. That increase in the volume of FHA guarantees would have budgetary effects.

CBO did not estimate the budgetary effects of such approaches, referred to as circuit breakers. Those approaches might produce smaller or larger budgetary savings than would a fixed transition path, depending on whether the pace of changes slowed down or sped up.


10. For example, the Mortgage Bankers Association has a monthly index that tracks the magnitude of changes in mortgage credit conditions based on loan and borrower characteristics. See Mortgage Bankers Association, “Mortgage Credit Availability Index,” www.mortgagebankers.org/ResearchAndForecasts/mcai.htm.
Increases in FHA Guarantees
Under a transition to a new market structure, some borrowers would shift from mortgages financed by Fannie Mae and Freddie Mac to mortgages guaranteed by FHA, whether because of the reduced availability of GSE financing or because of higher GSE fees. The borrowers most likely to secure FHA-backed mortgages rather than privately backed mortgages would be the riskiest ones—those who had relatively low credit scores or could not meet the down payment standards of the private market. That pattern would occur because borrowers who could make a down payment of 20 percent, or in many cases even 10 percent, would have little incentive to consider switching to FHA-backed mortgages under the transition paths (barring an unexpected shock to the mortgage market). Unlike fees in the private market, FHA’s fees do not vary significantly with the size of borrowers’ down payments and do not vary at all with borrowers’ credit scores. As a result, in CBO’s assessment, the fees that FHA charges less risky borrowers will be higher than those charged by Fannie Mae, Freddie Mac, and private mortgage insurers under current policy or under any of the illustrative transition paths, even after accounting for the increases in the GSEs’ fees that are included in some of them.

Under current policy, FHA’s loan volume for single-family mortgages over the 2015–2024 period will be more than $2.2 trillion, according to CBO’s April 2014 projections. During the transition to a market with a single, fully federal agency, FHA’s loan volume for that period would increase by roughly $60 billion as borrowers shifted from GSE financing, CBO estimates. That increase would be a small share of the projected volume under current policy because only a small share of borrowers would be affected by the lower GSE loan limits during the transition. During a transition to a hybrid public-private market or to a market with the government acting as guarantor of last resort, CBO estimates that the increase in FHA’s loan volume over the 2015–2024 period would be roughly $400 billion. And during a transition to a largely private market, the increase in FHA’s loan volume over the coming decade would be about $900 billion. Those increases would range from about 2 percent to 40 percent of the size of FHA’s insurance program under current policy.

The Budgetary Effects of Additional FHA Guarantees on a FCRA Basis
Estimates of the government’s subsidy costs for FHA guarantees, like those for most other federal credit programs, are reported in accordance with the procedures specified in the Federal Credit Reform Act, which require discounting expected cash flows at Treasury rates. Under those procedures, FHA’s single-family guarantees are recorded in the budget with a negative subsidy cost. In other words, the present value of the payments that the government will receive over the lifetime of the loans that FHA will insure in the next 10 years is projected to be greater than the present value of the payments that the government will make for defaults on those loans. If legislators approved, and borrowers sought, a larger amount of loan guarantees by FHA, those additional loans would generate additional estimated budgetary savings.

Federal credit generally appears to be less costly when reported on a FCRA basis than it does on a fair-value basis, so under current budgetary procedures, proposals that replaced GSE guarantees (accounted for at fair value) with FHA guarantees (accounted for under FCRA) would result in estimates of budgetary savings that are an artifact of switching the accounting treatment of those guarantees. Under the path to a market with a single, fully federal agency, those savings would amount to an additional $2 billion, CBO estimates, on top of the estimated $63 billion in savings from FHA’s single-family guarantees under current policy. Under the paths that focus on attracting more private capital, the added savings during that period would range from $8 billion (under a transition to a market with the government acting as guarantor of last resort) to $22 billion (under a transition to a largely private market).

The estimates reflect CBO’s judgment that FHA’s insurance fees will decline over time. Under current law, FHA has some flexibility to adjust fees, but the process for setting loan limits is set by statute. Because current fees are higher than is necessary to build FHA’s reserves back up to the level required by law, CBO anticipates that FHA will lower those fees. Some legislative proposals would, however, raise those fees above the levels projected in CBO’s baseline (though still below current levels), reduce FHA’s loan limits in high-cost areas, and impose income

11. Because Ginnie Mae securitizes almost all mortgages insured by FHA, its securitizations would rise by a similar amount.

restrictions for borrowers who were not first-time homebuyers. If enacted, those changes would lessen the shift in guarantees from Fannie Mae and Freddie Mac to FHA under the transitions analyzed in this report, which reflects the assumption that FHA would continue to operate under current policy.

The Budgetary Effects of Additional FHA Guarantees on a Fair-Value Basis

On a fair-value basis, CBO estimates that FHA’s single-family loan guarantees typically have a positive subsidy cost, meaning that the amount that the government would need to pay private entities to assume those loan guarantee receipts and obligations is positive. Thus, if fair-value accounting was used for FHA, the shift in loan guarantees from Fannie Mae and Freddie Mac to that agency would boost subsidy costs for FHA (under an assumption that appropriations would be consistent with the expected increase in demand for FHA guarantees) and reduce the savings shown in the illustrative transition paths.

Under current policy, those subsidies will have a cost of $27 billion over the 2015–2024 period on a fair-value basis, CBO projects. Over that same period, the transition to a market with a fully federal agency in place of the two GSEs would increase fair-value subsidy costs for FHA by about $1 billion. The transition paths that brought in more private capital would increase FHA subsidies over 10 years by between $6 billion (under a transition to either a hybrid market or to a market with the government acting as guarantor of last resort) and $14 billion (under a transition to a largely private market).

Thus, under FCRA accounting, an increase in the volume of FHA guarantees generates savings, but under fair-value accounting, that increase would result in net costs. FCRA estimates may be more useful than fair-value estimates in projecting the average budgetary effects of programs that provide credit assistance, but projecting such effects is not the only, or necessarily even the primary, purpose of estimates of the cost of changes in federal programs. Cost estimates are tools that policymakers can use to make trade-offs between different policies that work toward a particular policy goal. By taking into account how the public assesses financial risks as expressed through market prices, fair-value estimates may be more useful than FCRA estimates in helping policymakers understand trade-offs between policies that involve such risks.

Under a transition to a market with a fully federal agency, the difference in the two measures is relatively small—about $2 billion. The differences are much more significant in transitions to other market structures, where the effects on the volume of FHA guarantees would be greater. For example, a transition to a largely private market would show savings for FHA of $22 billion under FCRA but a cost of $14 billion under fair-value accounting—a difference of $36 billion.

Effects of the Transitions on Fannie Mae’s and Freddie Mac’s Existing Operations

Any transition to a new secondary mortgage market structure would require decisions about how to restructure the two GSEs as institutions and how to manage their existing assets and liabilities. Those decisions would depend in part on the long-term role that policymakers wanted the government to play.

Under CBO’s fair-value accounting for the GSEs, any sales of Fannie Mae’s and Freddie Mac’s assets that occurred at market prices in orderly transactions would be considered an exchange of an asset for a cash amount of equal value—so the only budgetary costs would be the costs involved in conducting the transactions. Under other accounting treatments, however, the budgetary
costs of selling portfolio holdings or of paying private parties to take over the GSEs’ outstanding guarantees could be quite different. Because those transactions would reduce projected net interest income for the GSEs, they would, under cash accounting, result in a budgetary cost. Moreover, if the expected net rate of return on the portfolio holdings or guarantees exceeded the Treasury borrowing rate, the transactions would, under FCRA accounting, also be reported as having a cost.

**Winding Down the GSEs’ Operations**

Depending on the market structure chosen, policymakers could consolidate some of Fannie Mae’s and Freddie Mac’s current operations and transfer them to a new or existing federal agency, or they could sell those operations to securitizers in the private sector or liquidate them. Whether the two GSEs were sold as going concerns or were liquidated could affect the price that potential buyers were willing to pay and could have implications for the competitiveness of the private market. Selling the entities as going concerns without federal backing might maximize the price; however, it might also allow successor entities to dominate the secondary market, at least in the short run, which would offset some of the potential gains from increased competition. Indeed, even something as simple as allowing the successor entities to use the names Fannie Mae and Freddie Mac might create the impression that securities issued by the entities were implicitly guaranteed by the federal government, which would distort competition. Thus, policymakers might decide to sacrifice some proceeds from privatization in order to promote a more competitive market structure.

Similar trade-offs arise in considering the appropriate disposition of Fannie Mae’s and Freddie Mac’s operating assets, such as loan origination and information systems (including automated underwriting systems), data, and the specialized expertise of employees. Under the three market structures with a reduced federal role, the GSEs’ assets could be sold to—and their employees hired by—existing or new firms in the secondary market that currently lack the capacity to handle the GSEs’ volume of securitization. However, policymakers would need to weigh the benefits and drawbacks from such a sale. For example, some market participants argue that simply selling the GSEs’ loan-level performance data to the highest bidder could undermine competition; they advocate making the data freely available to promote competition.15 Fannie Mae and Freddie Mac also have other nonfinancial assets that could be sold, including their headquarters, regional offices, and equipment.

**Managing the GSEs’ Existing Financial Assets and Liabilities**

A separate issue from how to handle Fannie Mae’s and Freddie Mac’s current operations is what to do with their accumulated financial assets (such as the MBSs and whole mortgages they hold as investments) and liabilities (such as the payments they will owe in the future on the securities they have issued). The government faces two basic choices for dealing with those assets and liabilities: either retain the GSEs’ existing portfolios and guarantees and allow both to diminish as mortgages are paid off, or sell off the portfolios and pay a private entity to assume the guarantee obligations. Whichever structure for the secondary market was ultimately adopted, the expected losses on the GSEs’ existing business would largely be borne by taxpayers because private investors would not assume those obligations without adequate compensation.

**Investment Portfolios.** As of June 30, 2014, Fannie Mae and Freddie Mac had investment portfolios for which the sum of unpaid principal balances on the whole mortgages and MBSs they held totaled about $870 billion (see Figure 4-1). However, the market value of those mortgages is significantly lower than the unpaid principal balances because some of the borrowers are delinquent or in foreclosure (that is, the mortgages are distressed assets). Since the financial crisis, whole mortgages have made up a significantly larger share of the GSEs’ portfolios than they did previously because the GSEs have stripped delinquent mortgages from their MBSs (by repurchasing the loans) to meet guarantee obligations. The GSEs’ practice of repurchasing delinquent mortgages and placing them in their investment portfolios is likely to continue for the next few years, so eliminating the portfolios while Fannie Mae and Freddie Mac remain in conservatorship is probably not practical.

The revised agreements that Fannie Mae and Freddie Mac reached with the Treasury in 2012 specify that the GSEs must gradually reduce their portfolios of retained mortgages and MBSs. The maximum size of the portfolio

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15. See, for example, the letter from John A. Courson and Michael D. Berman, Mortgage Bankers Association, to Alfred M. Pollard, General Counsel, Federal Housing Finance Agency (September 7, 2010), http://tinyurl.com/q8dc5by (PDF, 78 KB).
that each GSE can keep is scheduled to shrink by 15 percent a year, from $650 billion in December 2012 to $250 billion in December 2018. The agreements with the Treasury also limit the amount of debt securities that the GSEs can issue to finance purchases for their portfolios. (The amount of the two GSEs’ outstanding debt roughly corresponds to the size of their portfolios.) Fannie Mae and Freddie Mac are not actively buying new assets for investment, so much of the required reduction in the GSEs’ portfolios under current policy can be achieved through natural attrition as mortgages are paid off.

A decision by policymakers to sell off the GSEs’ portfolios more quickly could have various benefits and drawbacks. One benefit is that reducing Fannie Mae’s and Freddie Mac’s portfolios (and debt) would lower taxpayers’ exposure to the risk of larger-than-expected losses and shift responsibility for managing the sold assets to the private sector.16 But the prices that private investors paid would reflect the compensation that they demanded for bearing that market risk. Selling whole loans to other financial institutions would also be beneficial if those sales improved the process of resolving distressed mortgages and foreclosed properties. The Federal Housing Finance Agency recently announced that Fannie Mae and Freddie Mac will start experimenting with sales of their less-liquid assets (including distressed mortgages but not government-guaranteed MBSs) to test the market. Those sales are likely to cause the GSEs’ portfolios to shrink somewhat more quickly than scheduled in the agreements with the Treasury.

One drawback of selling off the GSEs’ portfolios quickly is that such sales would generate budgetary costs—but those costs would probably be significant only if the sales occurred in disorderly markets. In particular, selling the portfolio holdings in orderly transactions at market prices would have minimal net budgetary costs on a fair-value basis because the transactions would neither create nor reduce value after adjusting for risk. (Retaining the GSEs’ existing portfolios would not result in additional costs or savings to taxpayers unless the fair value of those holdings changed.) However, the transaction costs of such sales would generate small budgetary costs. In addition, accelerating the drawdown of the portfolios to a notable degree would probably generate some costs from distressed sales. For example, if lawmakers set 2016 as a deadline for the GSEs’ portfolios to shrink to $250 billion, both Fannie Mae and Freddie Mac would probably need to sell about $50 billion more in assets by that point than they are expected to under current policy. CBO estimates that such sales would have a budgetary cost of about $1 billion because the sales would probably entail selling significant amounts of some relatively illiquid assets at prices below fair value.

More important, if markets were disorderly while sales of portfolio holdings were occurring, the government could incur significant costs on a fair-value basis because value would be lost. Distressed assets, such as nonperforming mortgages and private-label MBSs, could be difficult, and therefore expensive, to sell because buyers lack the information to assess the true worth of those assets. Such assets

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might be sold only at “fire sale” prices that would be below fair value. But sales of GSEs’ holdings of their own MBSs would probably occur at fair value even in periods of financial distress because they are relatively easy to value.

Changes in Fannie Mae’s and Freddie Mac’s portfolios would probably have minimal effects on the mortgage and housing markets. Little evidence exists that when the two GSEs purchased each other’s or Ginnie Mae’s MBSs to hold in their portfolios, any additional savings flowed to mortgage borrowers.17

**MBS Guarantees.** As of June 30, 2014, Fannie Mae’s and Freddie Mac’s outstanding guarantees together totaled $4.2 trillion as measured by the face value of the underlying mortgages. Disposing of such a large amount of guarantees would be complicated, and the size of the transactions could cause private parties to increase the amount of compensation they required in exchange for assuming those risks. If the government had to pay private investors prices above fair market value to take on all of those obligations—which is likely, given the size of the liabilities—then the transactions would have budgetary costs on a fair-value basis. The government might be able to purchase reinsurance against some of its obligations, just as the GSEs have done in their risk-sharing transactions. However, the government would probably face counterparty risk if the private reinsurers were not able to meet their obligations. In any event, investors in the MBSs would still be relying on the government’s guarantee.18 Consequently, the lowest-cost option for the government might be to retain current guarantees.

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18. Steven G. Bradbury, Principal Deputy Assistant Attorney General, letter to the Secretary of the Treasury, *Enforceability of Certain Agreements Between the Department of the Treasury and Government Sponsored Enterprises* (September 26, 2008), [http://go.usa.gov/6VuQ](http://go.usa.gov/6VuQ) (PDF, 295 KB).
Appendix:
Options for Shifting Credit Risk to the Private Sector

The Federal Housing Finance Agency (FHFA) is encouraging Fannie Mae and Freddie Mac to explore a range of options to shift some of the risk of default on mortgages to the private sector, including issuing mortgage-backed securities (MBSs) without a full guarantee, buying insurance in the form of credit risk notes, and requiring more private mortgage insurance. In response, both of those government-sponsored enterprises (GSEs) undertook multiple risk-sharing transactions in 2013 and 2014 for single-family residential loans.¹ (The two GSEs were already routinely sharing credit risk on mortgages made to owners of multifamily residential properties.) The analysis of risk sharing discussed earlier in this report was based on a generic risk-sharing approach, but different methods of shifting risk to the private sector could have different effects on the secondary mortgage market.

**Issue MBSs Without a Full Guarantee**
Both GSEs could reduce their credit risk by issuing securities without a full guarantee, as Freddie Mac already does with its multifamily MBSs. The cash flows from a pool of mortgages could be segmented into a multi-class—or “senior-subordinate”—structure: Investors holding the senior securities would receive mortgage interest and principal payments before others, whereas those holding the subordinate classes of securities would be first in line to absorb any credit losses. The senior securities, which might be guaranteed by the GSEs, would experience credit losses only after the subordinate securities were wiped out.

Fannie Mae and Freddie Mac would have to pay higher yields on the subordinate MBSs to compensate investors for bearing some of the credit risk. The cost of paying those higher yields would probably be passed on to mortgage borrowers through increases in guarantee fees. Neither GSE has yet used the senior-subordinate structure to share risk on single-family loans, in part because of the expected costs associated with that approach.

**Issue Credit Risk Notes**
Both Fannie Mae and Freddie Mac have issued debt securities, known as credit risk notes, that function as insurance agreements, effectively insulating the two GSEs from a specified amount of mortgage losses.² These notes are generally sold to investors, such as investment banks, hedge funds, and mutual funds (depending on the structure of the notes). In exchange for periodic payments, investors agree to bear some of the credit risk on a pool of loans or on MBSs. The structure and cash flows of the underlying MBSs are not affected, so such notes do not change the investor base for federally backed (“agency”) MBSs.

¹. See the testimonies of Laurel Davis, Vice President, Fannie Mae, and Kevin Palmer, Vice President, Freddie Mac, before the Senate Committee on Banking, Housing, and Urban Affairs (December 10, 2013), http://go.usa.gov/BvJx.

². Credit risk notes are conceptually similar to another type of debt called credit-linked notes, but the two have different legal structures. Whereas credit risk notes can be issued directly by Fannie Mae and Freddie Mac, credit-linked notes would have to be issued indirectly, through special-purpose entities. Credit-linked notes also present more complex regulatory, tax, and accounting issues than do credit risk notes.
Payoffs on credit risk notes depend solely on the performance of the designated pool of mortgages or MBSs. If no losses occur on the mortgages or MBSs covered under the agreements, the holders of the notes receive their principal back plus interest. If credit losses are incurred on the mortgages, however, those losses are deducted from the principal amount of the notes. Thus far, to keep interest rates on their credit risk notes low, Fannie Mae and Freddie Mac have retained responsibility for a small initial layer of losses on the pools of loans rather than having investors bear those losses.

Some large banks have used similar notes to share a portion of the credit risk on their holdings of mortgages and private-label MBSs. In addition, property and casualty insurers have used similar structures to share their catastrophic risks with other participants in capital markets.

Before FHFA began pushing for more risk sharing in 2013, the two GSEs had little experience with issuing credit risk notes; Freddie Mac had used a similar structure in 1998 but had not done so since then. The GSEs took several months to issue those notes in 2013 because they first had to grapple with complex tax and accounting questions as well as regulatory requirements and legal issues.

Require More Private Mortgage Insurance
Another option is for Fannie Mae and Freddie Mac to increase their reliance on private mortgage insurance, which is a well-tested approach to shifting credit risk. Borrowers with down payments that are less than the standard required by policymakers—currently 20 percent of a home’s purchase price—must purchase insurance from private mortgage insurers who take the first losses on credit defaults (the percentage varies based on the size of the down payment), leaving any excess losses to the two GSEs. For example, if a borrower makes a 10 percent down payment, the private mortgage insurer would generally cover losses up to 25 percent of the original loan amount. Insurers have covered more than $40 billion in credit losses on GSE-backed loans since 2008; over $600 billion in mortgages guaranteed by the GSEs carry private mortgage insurance.

One way to implement that approach is for Fannie Mae and Freddie Mac to buy private mortgage insurance on a pool of loans, as they did in 2013 and 2014. Alternatively, policymakers could require more borrowers to purchase mortgage insurance from private insurers by raising the standard down payment from 20 percent of a home’s purchase price to 30 percent. Or policymakers could retain the 20 percent down payment standard but increase the amount of coverage that mortgage insurance provided for borrowers who lacked the required down payment so that the insurance would provide greater protection against loss of principal. For example, an increase in coverage for a borrower with a 10 percent down payment could mean that a private insurer covers losses up to 35 percent of the principal balance rather than 25 percent of the principal as is required by the GSEs today.

If some borrowers reacted to such an increase in requirements by making bigger down payments to avoid more costly mortgage insurance, the financial system as a whole would face less credit risk. Nevertheless, with such requirements boosting the demand for private mortgage insurance, insurers would have to raise a significant amount of capital to ensure an adequate supply.

Trade-Offs Between Those Options
Those three approaches differ in how effectively they would shift credit risk to the private sector. They also vary in how they would affect the liquidity of the secondary mortgage market and the amount of new guarantees made by Fannie Mae and Freddie Mac. FHFA hopes that the GSEs’ recent risk-sharing experiments can be scaled up to handle larger volumes in the future and that they will attract a sustainable base of investors.

Effectiveness in Shifting Credit Risk
Credit risk notes are effective in transferring risk because the two GSEs receive investors’ payments for the notes up front, which eliminates counterparty risk (the risk that the other party to a transaction defaults and cannot fulfill its obligations).

Partially guaranteed MBSs with a senior-subordinate structure would function much like Freddie Mac’s multi-family securities, which are issued without full guarantees. The effectiveness of those MBSs is uncertain and would depend on whether investors assumed that the subordinate classes bore an implicit federal guarantee. (When Fannie Mae and Freddie Mac were placed in conservatorship, the subordinate debt securities they had issued at the corporate level before the financial crisis were protected by such a guarantee. However, investors in
the subordinate classes of Freddie Mac’s multifamily MBSs were not protected.)

Relying more heavily on private mortgage insurance shifts some of the GSEs’ credit risk, but it increases their exposure to counterparty risk. Several private mortgage insurance companies failed during the financial crisis, and some of their costs were borne by the GSEs; other companies had their credit ratings downgraded, indicating that they would have been vulnerable if the crisis had been worse. However, at least one of the GSEs’ risk-sharing transactions in 2013 involved an insurer that had no previous exposure to mortgage credit risk. If other insurers who had no previous experience in mortgage insurance entered this segment of the market, they would make more capital available to back private mortgage insurance and could reduce and diversify the government’s counterparty risk.

Effectiveness in Maintaining Liquidity

The liquidity of the market for agency MBSs would not be affected by increasing reliance on private mortgage insurance or by the GSEs’ issuing credit risk notes. However, liquidity would probably decline if the GSEs issued more securities with incomplete guarantees, which would lead to higher interest rates on mortgages. In particular, MBSs with senior and subordinate classes might be less liquid than the current single-class MBSs if the structure of the new securities did not meet the requirements for trading in the “To Be Announced” (TBA) market for MBSs (a forward market in which lenders promise to deliver in the future a pool of mortgages with preset interest rates that qualify for a federal guarantee).4

Currently, the only securities that are eligible to trade in the TBA market are those guaranteed by Fannie Mae, Freddie Mac, or Ginnie Mae; private-label MBSs do not meet TBA standards. Securities that trade in the TBA market are highly standardized and substitutable, which facilitates forward trading because the value of the particular security delivered under a forward agreement should be about the same as any other TBA-eligible security that could be delivered at that date. In contrast, multiclass securities are less homogeneous, and the cash flows received by investors of the senior securities might look different than the cash flows received by investors in TBA-eligible MBSs, so they would be less substitutable, which would complicate forward trades. Preserving the benefits of the TBA market is one of the goals of people who support moving to a hybrid public-private structure for the secondary mortgage market.

Effects on the Volume of New GSE Guarantees

Only one of the risk-sharing mechanisms would directly affect the amount of new guarantees made by Fannie Mae and Freddie Mac (although all three mechanisms would indirectly affect that amount by passing some of the costs of risk sharing on to borrowers in the form of higher guarantee fees). Issuing MBSs without a full guarantee would reduce the volume of new GSE guarantees because the subordinated classes of those securities would not be guaranteed.


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About This Document

This Congressional Budget Office (CBO) report was prepared at the request of the Chairman of the House Committee on Financial Services. In keeping with CBO’s mandate to provide objective, impartial analysis, the report makes no recommendations.

David Torregrosa of CBO’s Financial Analysis Division prepared the report with guidance from Damien Moore. Aurora Swanson of CBO’s Budget Analysis Division prepared the cost estimates with guidance from Kim Cawley. Mitchell Remy also contributed to the analysis, and Rebecca Rockey (formerly of CBO) assisted with the figures. Chad Chirico, Gabriel Ehrlich, Peter Fontaine, Mark Hadley, Mark Lasky, Susanne Mehlman, Jeffrey Perry, and Andrew Stocking of CBO provided helpful comments on the report, as did Larry Ozanne (formerly of CBO).

W. Scott Frame of the Belk College of Business at the University of North Carolina at Charlotte and the Federal Reserve Bank of Atlanta, Michael Fratantoni of the Mortgage Bankers Association, Dwight Jaffee of the Haas School of Business at the University of California at Berkeley, Deborah Lucas of the Sloan School of Management at the Massachusetts Institute of Technology (a consultant to CBO), Wayne Passmore of the Federal Reserve Board, Marvin Phaup of the Trachtenberg School of Public Policy at the George Washington University, Phillip Swagel of the University of Maryland School of Public Policy, and Mark Willis of New York University’s Furman Center for Real Estate and Urban Policy reviewed various drafts of the report. In addition, Robert Collender, Patrick Lawler, Jamie Newell, William Segal, Robert S. Seiler Jr., Valerie Smith, and Ronald Sugarman of the Federal Housing Finance Agency reviewed the draft. The assistance of external reviewers implies no responsibility for the final product, which rests solely with CBO. Bankrate.com provided data on mortgage rates.

Christian Howlett (formerly of CBO) and Bo Peery edited the report, and Jeanine Rees and Maureen Costantino prepared it for publication. An electronic version is available on CBO’s website (www.cbo.gov/publication/49765).

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December 2014