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I. INTRODUCTION

This primer discusses common issues regarding loss calculation under §2B1.1(b)(1), which provides for offense level increases based on the amount of loss involved in the offense.¹ Although the primer identifies some of the key cases and concepts relating to loss calculation, it is not a comprehensive compilation of authority nor intended to be a substitute for independent research and analysis of primary sources.

II. OVERVIEW OF LOSS CALCULATION

The guidelines provide a “general rule” defining “loss” as “the greater of actual loss or intended loss.”² This loss amount may be reduced by certain credits.³ For certain offense types, “special rules” for loss calculation apply,⁴ and credits against the loss amount may not be available.⁵ In all cases, certain items are excluded from the calculation of loss, including interest of any kind.⁶

The court “need only make a reasonable estimate of the loss.”⁷ The estimate should be based on available information, and the court may consider a variety of different factors.⁸ Notably, loss calculation is distinct from restitution, and the amounts may not be the same.⁹

¹ See U.S. SENT’G COMM’N, GUIDELINES MANUAL §2B1.1(b)(1) (Nov. 2023) [hereinafter USSG].

² USSG §2B1.1, comment. (n.3(A)). The Third Circuit held that the term “loss” in §2B1.1 is unambiguous, meaning only “actual loss,” and that Application Note 3(A), which includes both “actual loss” and “intended loss,” impermissibly expands the guideline under the analysis set forth in *Kisor v. Wilkie*, 139 S. Ct. 2400 (2019). *United States v. Banks*, 55 F.4th 246, 255–59 (3d Cir. 2022). Compare *United States v. You*, 74 F.4th 378, 397 (6th Cir. 2023) (“loss” in §2B1.1 is ambiguous and includes intended loss).

To ensure consistent loss calculation across circuits, the Commission recently promulgated an amendment that creates Notes to the loss table in §2B1.1(b)(1) and moves the general rule defining “loss” as the greater of actual loss or intended loss from the commentary into the guideline as part of the Notes. See Amendment 2 of the amendments submitted by the Commission to Congress on April 30, 2024, 89 FR 36853 (May 3, 2024). Absent congressional action to the contrary, the amendment will become effective November 1, 2024.

³ USSG §2B1.1, comment. (n.3(E)).

⁴ USSG §2B1.1, comment. (n.3(F)); see also USSG §2B1.1, comment. (n.3(A)(v)) (outlining “Rules of Construction in Certain Cases”).

⁵ See, e.g., USSG §2B1.1, comment. (n.3(F)(v)) (“no credit provided for the value of . . . items or services” provided in certain unlawful misrepresentation schemes).

⁶ USSG §2B1.1, comment. (n.3(D)).

⁷ USSG §2B1.1, comment. (n.3(C)); see also *United States v. Sullivan*, 765 F.3d 712, 716 (7th Cir. 2014) (absolute accuracy is not required as long as the calculation is not “outside the realm of permissible computations” (quoting *United States v. Jackson*, 25 F.3d 327, 330 (6th Cir. 1994))).

⁸ See USSG §2B1.1, comment. (n.3(C)).

⁹ See, e.g., *United States v. Dadyan*, 76 F.4th 955, 959 (9th Cir. 2023) (“There is no categorical rule that restitution must be equal to or less than the amount of loss found when applying Sentencing Guidelines §2B1.1(b)(1) or similar loss-based Guidelines sections.”), cert. denied sub nom. *Dadyan petitioners v. United*

Loss is calculated based on all relevant conduct and is not limited to losses directly attributable to the instant offense.¹⁰ Courts have aggregated the loss amount from multiple victims of the same offense when calculating the guideline range because the loss amount represents the different harms faced by each victim.¹¹ For example, where a defendant was convicted of defrauding Medicare but also had defrauded private insurers and patients under the same fraud scheme, the sentencing court properly included the losses not only to the Medicare program but also to private insurers and patients in its loss calculation.¹²

Under relevant conduct rules, certain losses caused by the acts of others also should be included in the loss calculation.¹³ Losses caused by others may only be attributed to the defendant if they were reasonably foreseeable and within the scope of the criminal activity that the defendant “agreed to jointly undertake.”¹⁴ A court may be reversed if there are

States, No. 23-6577 (U.S. Mar. 4, 2024); *United States v. Kuhrt*, 788 F.3d 403, 423 (5th Cir. 2015) (rejecting defendant’s argument that the government’s inability to calculate restitution demonstrates that total loss also cannot be determined because they are “wholly distinct questions”); *see also* *United States v. Certified Env’t Serv.*, 753 F.3d 72, 102–03 (2d Cir. 2014) (reversing, *inter alia*, because district court conflated loss and restitution; emphasizing distinctions between these concepts).

¹⁰ *See* USSG §1B1.3 (Relevant Conduct (Factors that Determine the Guideline Range)); *United States v. Cornelsen*, 893 F.3d 1086, 1089–90 (8th Cir. 2018) (district court did not clearly err in including uncharged conduct in loss calculation).

¹¹ *See, e.g., United States v. Johnson*, 79 F.4th 684, 709 (6th Cir. 2023) (district court did not improperly double count by counting the loss to the Department of Housing and Urban Development and to the IRS from the defendant’s federal program theft and tax offenses because the harms were to two distinct entities).

¹² *United States v. Hoffman-Vaile*, 568 F.3d 1335, 1343–44 (11th Cir. 2009).

¹³ *See* USSG §1B1.3(a)(1)(B) (defining relevant conduct for jointly undertaken activity). Numerous cases have examined when losses caused by other people’s acts qualify as relevant conduct that may be included in the loss calculation. *See, e.g., United States v. Igboba*, 964 F.3d 501, 510 (6th Cir. 2020) (ultimately concluding that all losses were attributable to the defendant himself); *United States v. Moran*, 778 F.3d 942, 973–75 (11th Cir. 2015) (district court did not clearly err by finding that defendants were responsible for losses caused by co-conspirators); *United States v. Robinson*, 603 F.3d 230, 234 (3d Cir. 2010) (same); *see also* *United States v. Offill*, 666 F.3d 168, 180 (4th Cir. 2011) (applying same principle to financial gain imputed to defendant in conspiracy).

¹⁴ USSG §1B1.3, comment. (n.3(B), (D)); *see, e.g., United States v. Ahmed*, 51 F.4th 12, 23–24 (1st Cir. 2022) (district court did not err in including overbilling for clinical services in loss calculation, in addition to defendant-interpreter’s overbilling for interpreting services, because defendant “knew or should have known that the providers could only seek reimbursement for interpreter services in the same units of time as . . . for the counseling services,” and so it was reasonably foreseeable that providers would overbill for both (quotations omitted)); *United States v. Lloyd*, 807 F.3d 1128, 1142, 1145 (9th Cir. 2015) (in securities fraud case, reversing judgment attributing loss from California telemarketing boiler room to defendant managing Florida boiler room because defendant did not design overall scheme, did not pool resources, and was compensated from commissions from only his operation); *United States v. Rodriguez*, 751 F.3d 1244, 1256–57 (11th Cir. 2014) (defendant in mortgage scheme was properly attributed with losses associated with fraudulent use of her post office box because she “participated in the conspiracy and did not withdraw from it” and moreover because “rerouting the mail was essential to the success of the fraudulent scheme”); *United States v. Arojojoye*, 753 F.3d 729, 737–39 (7th Cir. 2014) (defendant was properly attributed with losses caused by co-defendants when he created fraudulent documents and false address used in scheme; emphasizing that the district court properly considered supporting evidence “in context and in cumulation”);

insufficient findings on this point.¹⁵ Given the focus on foreseeability, a medical biller who processes each bill in a healthcare fraud scheme, for example, may be held accountable for more losses than a physician in the conspiracy who was unable to foresee the full extent of the conspiracy.¹⁶

A. ACTUAL LOSS

Actual loss, which is often referred to as “but for” loss, is defined as “the reasonably foreseeable pecuniary harm that resulted from the offense.”¹⁷ A loss enhancement may apply even where a defendant personally received no pecuniary gain.¹⁸ Pecuniary harm is reasonably foreseeable if it is “harm that the defendant knew or, under the circumstances, reasonably should have known, was a potential result of the offense.”¹⁹ All reasonably foreseeable losses that flow directly, or indirectly, from a defendant’s conduct should be included in the loss calculation. For example, where a defendant committed mortgage fraud

see also United States v. Sykes, 774 F.3d 1145, 1150–52 (7th Cir. 2014) (analyzing concept of foreseeability in detail).

¹⁵ *See, e.g.*, United States v. McClatchey, 316 F.3d 1122, 1128 (10th Cir. 2003) (emphasizing distinction between involvement in conspiracy and scope of jointly undertaken activity); United States v. Treadwell, 593 F.3d 990, 1002 (9th Cir. 2010) (“[A] district court may not automatically hold an individual defendant responsible for losses attributable to the entire conspiracy, but rather must identify the loss that fell within the scope of the defendant’s agreement with his co-conspirators and was reasonably foreseeable to the defendant.”), *overruled on other grounds by* United States v. Miller, 953 F.3d 1095 (9th Cir. 2020).

¹⁶ *See* United States v. Barnes, 979 F.3d 283, 317 (5th Cir. 2020); *see also* United States v. Grady, 18 F.4th 1275, 1292 (11th Cir. 2021) (the district court did not err in holding defendant accountable for entire loss amount arising from co-defendants’ action in vandalizing naval base where evidence showed the defendant helped plan the group’s actions for over two years and the defendant went to the naval base with the group knowing they were armed with various tools).

¹⁷ USSG §2B1.1, comment. (n.3(A)(i)); *see also* United States v. Stein, 964 F.3d 1313, 1319–22 (11th Cir. 2020) (affirming district court’s loss calculation based on government expert’s testimony establishing investor reliance on defendant’s fraudulent information, which satisfied “but for” causation requirement).

The recently promulgated amendment to §2B1.1 moves the definition of “actual loss” from the commentary to the new Notes to §2B1.1(b)(1). *See* Amendment 2 of the amendments submitted by the Commission to Congress on April 30, 2024, 89 FR 36853 (May 3, 2024). Absent congressional action to the contrary, the amendment will become effective November 1, 2024.

¹⁸ *See, e.g.*, United States v. Ledee, 772 F.3d 21, 38 (1st Cir. 2014) (explaining that there is no requirement of personal gain as a condition of enhancement under §2B1.1(b)(1)).

¹⁹ USSG §2B1.1, comment. (n.3(A)(iv)); *see also, e.g.*, United States v. Domnenko, 763 F.3d 768, 775–76 (7th Cir. 2014) (remanding for court to explain its reasoning in attributing loss that lender sustained on sale of home to defendants because there was “no evidence” that sellers were aware that the purchaser was “fictional”). A district court’s determination of a loss (and sentence) higher than what a defendant proposed does not render a plea unknowing. United States v. Agarwal, 24 F.4th 886, 893 (3d Cir. 2022) (rejecting defendant’s argument that his plea was unknowing because he could not have foreseen the losses that would be attributed to his computer fraud violations).

The recently promulgated amendment to §2B1.1 moves the definition of “pecuniary harm” and “reasonably foreseeable pecuniary harm” from the commentary to the new Notes to §2B1.1(b)(1). *See* Amendment 2 of the amendments submitted by the Commission to Congress on April 30, 2024, 89 FR 36853 (May 3, 2024). Absent congressional action to the contrary, the amendment will become effective November 1, 2024.

by fraudulently misrepresenting information about her job and income to lenders who she knew were likely to sell the loans to secondary lenders, the court held the defendant caused the banks at issue to assume a risk of default, and the loss of unpaid principal on each loan was reasonably foreseeable.²⁰

One of the most commonly litigated issues concerning actual loss is whether the harm was, in fact, “reasonably foreseeable.” In determining whether loss is reasonably foreseeable, courts have found that the actual loss must have a causal link to the defendant’s conduct.²¹ In one case, a defendant was convicted of converting funds from employees’ paychecks that were intended for medical benefits and of making false statements related to those employees’ health benefits.²² The “actual loss” was calculated using the total amount of unpaid medical claims made by the employees.²³ However, the Seventh Circuit reversed because the trial court stated on the record that there was no causal link between the defendant’s misstatements about benefits and the losses caused by the medical claims in the case.²⁴ Similarly, the Sixth Circuit found that loan losses could not properly be attributed to the defendant where there was no reasonable link between the fraud committed by the defendant during the construction of a building and the subsequent default on a construction loan.²⁵ The Ninth Circuit requires causation to be shown by clear and convincing evidence.²⁶

The reasonable foreseeability issue has received particular attention in the context of mortgage fraud. For example, the Eighth Circuit has rejected arguments that defendants could not have “reasonably foreseen” the downturn in the housing market.²⁷ In one frequently cited case, the defendant obtained numerous mortgage loans through applications overstating the named purchaser’s net worth and income, leading to default and subsequent foreclosure.²⁸ The district court calculated the actual loss as the difference

²⁰ United States v. Crowe, 735 F.3d 1229, 1240 (10th Cir. 2013).

²¹ See, e.g., United States v. Whiting, 471 F.3d 792, 802 (7th Cir. 2006); United States v. Rothwell, 387 F.3d 579, 584 (6th Cir. 2004).

²² Whiting, 471 F.3d at 793.

²³ Id. at 802.

²⁴ Id.

²⁵ Rothwell, 387 F.3d at 584; see also United States v. Isaacson, 752 F.3d 1291, 1305–07 (11th Cir. 2014) (remanding because government failed to establish that fraudulent valuations caused losing investment); United States v. Stein, 846 F.3d 1135, 1154 (11th Cir. 2017) (remanding because government failed to prove that investors relied upon fraudulent information).

²⁶ See United States v. Lonich, 23 F.4th 881, 918 (9th Cir. 2022) (vacating and remanding for resentencing where the “clear and convincing” standard applied to the defendants’ 20-level loss enhancement and the government did not show that the defendants caused the bank to fail).

²⁷ See United States v. Mshihiri, 816 F.3d 997, 1011 (8th Cir. 2016) (“[W]e have recognized that it was reasonably foreseeable that a scheme premised on false loan applications and inflated real estate prices would unravel, and that market conditions could exacerbate the losses.” (quotations, alteration, and citation omitted)).

²⁸ United States v. McKanry, 628 F.3d 1010, 1014–15 (8th Cir. 2011).

between the unpaid principal balance of the twelve mortgages and the subsequent sale price of the properties.²⁹ Although the defendant argued that the government failed to prove that the loss amount was fully attributable to him, as opposed to normal market conditions, the Eighth Circuit held that “[t]he appropriate test is not whether market factors impacted the amount of loss, but whether the market factors and the resulting loss were reasonably foreseeable.”³⁰ Several other circuits also have rejected arguments that a defendant’s loss amount should be reduced because the downturn in the housing market was unforeseeable, holding instead that the foreseeability analysis applies only to the calculation of loss of the unpaid principal and not to the future value of collateral.³¹

In a case involving investment losses, the Eighth Circuit similarly has refused to reduce actual losses by “legitimate market factors and business expenses,” explaining that the net-loss analysis required by §2B1.1 involves whether the defendant transferred something of value to the victim, not whether the victim’s total losses were affected by market forces.³² The Eighth Circuit held that the district court did not commit clear error in estimating the losses resulting from defendant’s fraud offenses by calculating the total amounts lost by all investors who submitted Victim Impact Statements.³³

B. INTENDED LOSS

1. Generally

The guidelines define intended loss as “pecuniary harm that the defendant purposely sought to inflict.”³⁴ The defendant’s subjective intent is relevant to the intended loss inquiry.³⁵

²⁹ *Id.* at 1019.

³⁰ *Id.*

³¹ *See, e.g.,* United States v. Cavallo, 790 F.3d 1202, 1235–36 (11th Cir. 2015) (“The sentencing guidelines, therefore, require foreseeability of the loss of the unpaid principal, but do not require foreseeability with respect to the future value of the collateral.” (quoting United States v. Wendlandt, 714 F.3d 388, 394 (6th Cir. 2013) (quotation marks omitted))); United States v. Morris, 744 F.3d 1373, 1375 & n.1 (9th Cir. 2014) (collecting cases); *accord* United States v. Foley, 783 F.3d 7, 24 n.14 (1st Cir. 2015) (noting in passing that other circuits do not apply a foreseeability analysis to the calculation of credits against loss). *But see* United States v. Evans, 744 F.3d 1192, 1197–98 (10th Cir. 2014) (distinguishing the scenario in which victims were sold real estate securities “whose value necessarily fluctuated” as opposed to being “simply promised loan payments”). *See also infra* Section VI.B (discussing collateral in context of mortgage and loan losses).

³² United States v. Walker, 818 F.3d 416, 422–23 (8th Cir. 2016).

³³ *Id.* at 423.

³⁴ USSG §2B1.1, comment. (n.3(A)(ii)). The recently promulgated amendment to §2B1.1 moves the definition of “intended loss” and “pecuniary harm” from the commentary to the new Notes to §2B1.1(b)(1). *See* Amendment 2 of the amendments submitted by the Commission to Congress on April 30, 2024, 89 FR 36853 (May 3, 2024). Absent congressional action to the contrary, the amendment will become effective November 1, 2024.

³⁵ USSG App. C, amend. 792 (effective Nov. 1, 2015). Prior to the amendment, courts had differed as to whether the intended loss amount was based on the defendant’s subjective intent or on an objective

Intended loss includes “pecuniary harm that would have been impossible or unlikely to occur.”³⁶ For example, intended loss would include pecuniary harm that a defendant intended, but could not have actually caused, in a case involving a government sting operation or insurance fraud in which the claim exceeded the insured value.³⁷ There is no requirement that the court calculate actual loss before relying on intended loss; indeed, in some cases, it may be easier “as a matter of proof” to calculate intended loss.³⁸ However, actual losses, or losses actually completed before discovery, are included in any calculation of intended loss.³⁹ That is, the categories are not mutually exclusive and may be combined to calculate an overall intended loss.⁴⁰

Courts have considered what the loss would have been if the defendant had not been caught.⁴¹ For example, in a case related to government disability benefits, the Eighth Circuit held that the district court’s calculation of loss based on finding that the defendant intended to collect disability benefits through the age of 62, the age she would qualify for retirement, was not clearly erroneous.⁴² The Eighth Circuit held that “a district court may reasonably conclude that the defendant intended continued receipt of illegal benefits until retirement without additional *mens rea* evidence.”⁴³

standard. *Id.*; see also *United States v. Carrasquillo-Vilches*, 33 F.4th 36, 41–44 (1st Cir. 2022) (discussing standard before and after the amendment and affirming loss amount because, even though the PSR referenced both standards, “the record amply support[ed] the finding that the defendant subjectively intended to inflict at least” the lowest loss amount required for the enhancement imposed).

³⁶ USSG §2B1.1, comment. (n.3(A)(ii)).

³⁷ *Id.*

³⁸ *United States v. Thurston*, 358 F.3d 51, 68 (1st Cir. 2004), *vacated on other grounds*, 543 U.S. 1097 (2005).

³⁹ See *United States v. Sesay*, 937 F.3d 1146, 1153 (8th Cir. 2019) (“Intended loss . . . includes actual losses suffered.”); *United States v. Carboni*, 204 F.3d 39, 47 (2d Cir. 2000) (district court correctly combined the actual loss from defendant’s misrepresentations with potential loss stemming from a particular misrepresentation).

⁴⁰ *Sesay*, 937 F.3d at 1153.

⁴¹ *United States v. Frisch*, 704 F.3d 541, 544 (8th Cir. 2013); see also *United States v. Elizondo*, 21 F.4th 453, 473–75 (7th Cir. 2021) (where police officers who were the subject of a sting investigation properly inventoried and did not take any cash, it was not clear error to consider full \$15,000 of planted money as loss amount because evidence indicated that they would have taken full amount if they had not been on surveillance cameras).

⁴² *United States v. Lemons*, 792 F.3d 941, 950 (8th Cir. 2015) (also rejecting defendant’s argument that court should use actual loss incurred); see also *United States v. Vargas*, 21 F.4th 332, 337 (5th Cir. 2021) (“[I]t was not clear and obvious error for the court to infer that [the defendant] intended to receive benefits to which he was not legally entitled for as long as he could.”).

⁴³ *Lemons*, 729 F.3d at 950 (quotations and citation omitted) (finding, however, that there was additional evidence to support the court’s finding that the defendant intended to continue receiving benefits through retirement, including statements in reports filed with the Social Security Administration and three appeals of cessation of benefits); see also *United States v. Rettenberger*, 344 F.3d 702, 708 (7th Cir. 2003) (finding that the district judge properly assumed the defendant would have continued faking his disability until the age at which most insurance policies’ would end, without any evidence beyond the terms of the policies and the general facts of the case). *But see* *United States v. Peel*, 595 F.3d 763, 772 (7th Cir. 2010) (noting that if a defendant “present[ed] credible evidence for discounting a stream of future payments to [a lower future] value, the district court must consider [that evidence]”).

2. Specific Factual Circumstances

Determining intended loss is often a fact-specific inquiry.⁴⁴ A court’s determination of whether to calculate intended loss at the full face value of the property at issue or some lesser amount often turns on whether the defendant intended to jeopardize, or in fact recklessly jeopardized, the full amount of the property.⁴⁵ Thus, for example, the Eleventh Circuit agreed that intended loss amounts varied in health care fraud cases depending on whether specific defendants were aware of reimbursement details: for those defendants with such awareness, the intended loss was the lower reimbursable amount; for the defendant *without* such knowledge, the intended loss was a higher, billed rate.⁴⁶ While the analysis is fact-specific, certain schemes and claims are particularly common, and some of these situations are discussed below.

a. Credit card theft

In a case in which a defendant sold stolen credit cards to others, the sentencing judge fixed the intended loss at the total credit limits of all of the credit cards.⁴⁷ In upholding the sentencing court’s decision, the First Circuit concluded that the defendant reasonably could expect such a loss as “the natural and probable consequences of his or her actions.”⁴⁸ In another case, the defendant fraudulently opened credit accounts at local businesses in the names of victims.⁴⁹ The court calculated intended loss by totaling the credit limits of all open accounts even though the defendant had not used all of the available credit.⁵⁰ Similarly, in a case where the defendant unsuccessfully attempted to obtain cash advances from stolen credit cards, the court held that the total amount the defendant attempted to withdraw was the appropriate intended loss figure, even where it exceeded the cash advance limits.⁵¹

⁴⁴ See, e.g., *United States v. Ainabe*, 938 F.3d 685, 692 (5th Cir. 2019) (“[T]he appropriate method of calculating the amount of intended loss is determined by the facts of the case.”).

⁴⁵ See, e.g., *United States v. Harris*, 597 F.3d 242, 256–59 (5th Cir. 2010) (district court properly sentenced defendant based on the aggregate credit limit of the credit cards that she recklessly jeopardized by selling to third parties).

⁴⁶ *United States v. Moran*, 778 F.3d 942, 974–75 (11th Cir. 2015). *But see* *United States v. Moss*, 34 F.4th 1176, 1190–92 (11th Cir. 2022) (district court did not clearly err by considering the \$6.7 billed amount, rather than the \$2.5 million reimbursed amount, because, despite defendant’s arguments that he knew the reimbursement schedule, other evidence demonstrated defendant sought to get the “maximum possible payments from Medicare and the full benefit from any of its schedule increases”)

⁴⁷ *United States v. Alli*, 444 F.3d 34, 38–39 (1st Cir. 2006); *see also Harris*, 597 F.3d at 252–53 (looking to whether the defendant “recklessly jeopardized” the full credit card limits by selling the card numbers to a third party).

⁴⁸ *Alli*, 444 F.3d at 38.

⁴⁹ *United States v. Wilfong*, 475 F.3d 1214, 1216 (10th Cir. 2007).

⁵⁰ *Id.* at 1217.

⁵¹ *United States v. Ravelo*, 370 F.3d 266, 272–73 (2d Cir. 2004).

In fact, some circuits have concluded that simply obtaining information regarding a credit account creates a presumption that the entire credit limit was targeted, which must be rebutted by the defendant.⁵² Conversely, at least one circuit has held that where the defendant did not know the credit limit, the burden remains with the government to demonstrate what portion of the credit limit the defendant intended to use.⁵³

b. Fraudulent checks

In cases involving fraudulent or forged checks, courts often use the face value of the instruments to calculate the intended loss figure.⁵⁴ Courts have treated the face amount of the checks as prima facie evidence of the defendant's intent but allow the defendant to offer evidence to rebut that figure.⁵⁵ If, however, the defendant does not provide sufficient evidence to rebut intent, courts may accept the loss figure taken from the face value of the instruments.⁵⁶

c. Government programs and benefits

Full value also has been used to measure loss in fraud cases involving government benefits and programs. For example, the Eleventh Circuit held that the sentencing judge did not clearly err by considering the full value of all fraudulent applications for FEMA relief filed by the defendant even though she had not attempted to obtain all available funds from each application.⁵⁷ Similarly, the Seventh Circuit held that the intended loss was the full amount of loan commitments a defendant secured from the Small Business Administration

⁵² United States v. John, 597 F.3d 263, 280–81 (5th Cir. 2010), *abrogated on other grounds by* Van Buren v. United States, 593 U.S. 374 (2021).

⁵³ See United States v. Manatau, 647 F.3d 1048 (10th Cir. 2011) (construing loss and intended loss in this context).

⁵⁴ See, e.g., United States v. Skouteris, 51 F.4th 658, 671–72 (6th Cir. 2022) (district court did not clearly err by using full face value of forged checks even though actual loss suffered by victims was less; the Sixth Circuit has “repeatedly blessed intended loss calculations based on the face value of a fraudulently deposited check”); United States v. Grant, 431 F.3d 760, 762 (11th Cir. 2005) (“The other circuits to address this issue have held a district court does not clearly err when it uses the full face value of a check to calculate intended loss.”).

⁵⁵ See United States v. Santos, 527 F.3d 1003, 1008 (9th Cir. 2008) (agreeing with the Third and Eleventh Circuits that the face value of the stolen checks is “probative” of the defendants’ intended loss but holding that court must also consider any evidence tending to show that defendant did not intend to produce counterfeit checks up to the full face value of the stolen checks).

⁵⁶ See United States v. Adejumo, 772 F.3d 513, 527 (8th Cir. 2014) (basing intended loss on face value of stolen checks, even though many were photocopies that could not be negotiated, when defendant “presented no contrary evidence that he did not intend to use the full face value of the checks”).

⁵⁷ United States v. Willis, 560 F.3d 1246, 1250–51 (11th Cir. 2009) (per curiam) (reasoning that because the defendant exhibited a pattern of applying for funds beyond FEMA’s automatic disbursement on some applications, it was reasonable to infer intent to pursue additional funds on the remaining applications).

because, although the defendant did not receive the full amount, that sum was diverted from the intended recipients.⁵⁸

d. Insurance

In insurance fraud cases, the First Circuit has held that “it is appropriate for the loss-computation method to distinguish between a fraudster who wholly fabricates a non-existent claim and a fraudster who artificially inflates a legitimate claim.”⁵⁹ Thus, as in other contexts, the loss amount should not include the amount the insurance company would have paid absent the fraud.⁶⁰

e. Real property

The Fifth Circuit has concluded that unless the defendant was “so ‘consciously indifferent or reckless’ about the repayment of the loans as to impute to him the intention that the lenders should not recoup their loans,” intended loss is typically not the appropriate measure of loss because the real property serves as collateral and will be recoverable should the owner default.⁶¹

3. “Impossible or Unlikely” Loss

The definition of intended loss instructs courts to include harm that would have been “impossible or unlikely to occur.”⁶² The sentencing judge nonetheless might consider the impossibility of the loss as a basis for a downward departure or in considering the reasonableness of the sentence. For example, the Sixth Circuit held that impossible losses are to be included in the loss figure but remanded a case for the sentencing judge to consider a departure based on “economic reality.”⁶³

⁵⁸ United States v. Kosth, 257 F.3d 712, 722 (7th Cir. 2001); *see also* United States v. Conroy, 567 F.3d 174, 179–80 (5th Cir. 2009) (per curiam) (where the defendant asked for \$70,000 in a fraudulent grant application, but was approved for \$100,000, the appropriate intended loss was the higher value); *infra* Section IV.C.2.

⁵⁹ United States v. Alphas, 785 F.3d 775, 780–84 (1st Cir. 2015).

⁶⁰ *Id.*

⁶¹ United States v. Goss, 549 F.3d 1013, 1018 (5th Cir. 2008) (quoting United States v. Morrow, 177 F.3d 272, 301 (5th Cir. 1999)); *see also infra* Section VI.B.

⁶² USSG §2B1.1, comment. (n.3(A)(ii)); *see also* United States v. Moss, 34 F.4th 1176, 1192 (11th Cir. 2022) (“As we’ve said several times now, intended loss includes even loss and harm that is unlikely to occur.”).

⁶³ United States v. McBride, 362 F.3d 360, 374, 376 (6th Cir. 2004) (“[T]here is surely some point at which a perpetrator’s misperception of the facts may become so irrational that the words ‘intended loss’ can no longer reasonably apply.”); *see also* United States v. Johnston, 620 F. App’x 839, 857 (11th Cir. 2015) (per curiam) (affirming district court’s use of higher intended loss, rather than actual loss, but noting that where intended loss amount is impossible or unlikely to occur, it may impact the substantive reasonableness of a sentence).

C. LOSS CALCULATIONS AND THE 18 U.S.C. § 3553(a) FACTORS

At least one circuit has explored the application of the 18 U.S.C. § 3553(a) factors to the calculation of loss.⁶⁴ The sentencing judge concluded that the calculation of loss in the presentence report was “too speculative” and found a guideline loss of zero, but then “set the guidelines aside because we are outside the heartland” and sentenced the defendant to five years—an upward variance of over three years above the applicable guideline range.⁶⁵ On appeal, the Ninth Circuit emphasized that “the district court’s consideration of the large potential loss that could result . . . was not unreasonable” and that “the potential loss to the victims” was an important section 3553(a) factor.⁶⁶ Other courts also have suggested that a proper review of the section 3553(a) factors includes consideration of the loss caused by the defendant.⁶⁷

III. GAIN AS ALTERNATIVE MEASURE

The guidelines instruct the court to “use the gain that resulted from the offense as an alternative measure of loss only if there is a loss but it reasonably cannot be determined.”⁶⁸ Courts cannot use gain “as a proxy for each defendant’s culpability” and must properly calculate loss when possible but consider gain as an option if loss cannot be

⁶⁴ United States v. Hilgers, 560 F.3d 944, 947–48 (9th Cir. 2009).

⁶⁵ *Id.* at 946–47 (emphasis omitted).

⁶⁶ *Id.* at 947–48.

⁶⁷ See, e.g., United States v. Corsey, 723 F.3d 366, 377 (2d Cir. 2013) (per curiam) (remanding case with a very large intended loss amount but “low risk that any actual loss would result”); United States v. Edwards, 595 F.3d 1004, 1010, 1018 (9th Cir. 2010) (upholding a probationary sentence below the guideline range of 27–33 months as substantively reasonable in a fraud case where the sentencing judge stated that the guideline range calculated using intended loss “overstated the circumstances” of the defendant’s case); United States v. Livesay, 587 F.3d 1274, 1278–79 (11th Cir. 2009) (“A sentence of probation for a high-ranking officer in a corporation where over a billion dollars of fraud was perpetrated . . . is not reasonable” under the factors listed in § 3553(a) (emphasis omitted)).

⁶⁸ USSG §2B1.1, comment. (n.3(B)); see also, e.g., United States v. Jimenez, 946 F.3d 8, 14 (1st Cir. 2019) (“[H]ere the gain to the homeowners serves as a good economic proxy for loss: what the owners did not pay, the banks did not receive.”). The recently promulgated amendment to §2B1.1 moves the rule providing for the use of gain as an alternative measure of loss from the commentary to the new Notes to §2B1.1(b)(1). See Amendment 2 of the amendments submitted by the Commission to Congress on April 30, 2024, 89 FR 36853 (May 3, 2024). Absent congressional action to the contrary, the amendment will become effective November 1, 2024.

determined.⁶⁹ A court cannot sentence based on gain, however, if there is “no loss,” as opposed to an incalculable loss.⁷⁰

IV. ESTIMATING LOSS

A. GENERALLY

As discussed above, the court “need only make a reasonable estimate of the loss.”⁷¹ Courts make this estimate using available information, and the sentencing judge is “entitled to appropriate deference” because of the court’s unique position to assess the evidence.⁷² The government must prove the loss attributable to the defendant by a preponderance of the evidence and the factual findings supporting a sentencing judge’s loss calculation are reviewed by the appellate courts under a clear error standard.⁷³ The loss calculation *method*, however, is reviewed *de novo*.⁷⁴ Some circuits have held that a sentencing court does not commit “clear error” when a loss calculation is supported by the presumptively reasonable facts from the presentence report and the defendant fails to rebut those facts.⁷⁵ The Ninth Circuit, however, requires the government to establish facts that have a

⁶⁹ United States v. Gallant, 537 F.3d 1202, 1240 (10th Cir. 2008); *see also* United States v. Vrdolyak, 593 F.3d 676, 681 (7th Cir. 2010) (a sentencing judge’s refusal to consider gain as an alternative measure in a case where a “probable” but difficult to calculate loss exists is reversible error); United States v. Armstead, 552 F.3d 769, 778 (9th Cir. 2008) (gain can be used as a “proxy for a portion of the total loss where some, but not all, of the loss can be determined” (emphasis omitted)).

⁷⁰ *See* USSG §2B1.1, comment. (n.3(B)); *see also* United States v. Bazantes, 978 F.3d 1227, 1250–51 (11th Cir. 2020) (vacating sentences because the §2B1.1(b)(1) loss enhancement was erroneously applied based on gain even though there was no loss).

⁷¹ USSG §2B1.1, comment. (n.3(C)); *see also, e.g.*, United States v. Melgen, 967 F.3d 1250, 1265 (11th Cir. 2020) (“[T]he district court need only reach a reasonable estimate of loss.”).

⁷² USSG §2B1.1, comment. (n.3(C)); *see also* United States v. Moss, 34 F.4th 1176, 1190 (11th Cir. 2022); United States v. Comstock, 974 F.3d 551, 558–59 (5th Cir. 2020).

⁷³ *See, e.g.*, United States v. Nicolescu, 17 F.4th 706, 721–22 (6th Cir. 2021) (the district court’s findings are reviewed “under a deferential clear-error standard” and the district court “need only make a reasonable estimate of the loss using a preponderance of the evidence standard” (citation omitted)); United States v. Cavallo, 790 F.3d 1202, 1232 (11th Cir. 2015) (same); United States v. McKanry, 628 F.3d 1010, 1019 (8th Cir. 2011) (same).

⁷⁴ *See, e.g.*, United States v. Alfaro, 30 F.4th 514, 518–19 (5th Cir. 2022) (“We review the district court’s loss calculations for clear error, but the district court’s method of determining loss, as well as its interpretations of the Guidelines, are reviewed *de novo*.”); United States v. Iwuala, 789 F.3d 1, 12 (1st Cir. 2015) (method review *de novo*).

⁷⁵ *See, e.g.*, United States v. Chalker, 966 F.3d 1177, 1194 (11th Cir. 2020) (“The district court can base its loss determination on factual findings derived from, among other things, evidence heard during trial, undisputed statements in the PSI, or evidence presented during the sentencing hearing.” (quotations and citation omitted)); *see also* United States v. Vargas, 21 F.4th 332, 336–37 (5th Cir. 2021) (district court did not clearly err by adopting the loss amount in the PSR that “went entirely unchallenged”).

“disproportionate effect on the sentence relative to the offense of conviction” by clear and convincing evidence.⁷⁶

Although the guidelines are advisory, a sentencing judge still must make factual findings as to the amount of loss and a “reasonable estimate” of loss to satisfy evidentiary requirements. A court’s failure to do so will render a loss calculation invalid.⁷⁷ However, courts have held that when procedural errors in loss calculation do not affect the sentence, there is no clear error.⁷⁸

In keeping with these principles, courts have applied a wide range of approaches to estimate loss. For example, in bankruptcy fraud cases, courts have used both the amount sought to be discharged and the amount concealed from the bankruptcy court.⁷⁹ In a case in which defendants induced homeowners to refinance their homes to pay for renovations that the defendants did not perform, the loss was estimated by totaling the gross income from the refinance jobs above a certain price level and deducting labor and material costs.⁸⁰ In a case where the defendant fraudulently registered vehicles to avoid state tax, the combined lost sales tax for each of the vehicles—charged and uncharged—was a reasonable estimate of loss to the state.⁸¹

⁷⁶ United States v. Hymas, 780 F.3d 1285, 1289–90 (9th Cir. 2015) (quoting United States v. Mezas de Jesus, 217 F.3d 638, 642 (9th Cir. 2000)) (clarifying six-factor test for “disproportionate effect” analysis); *see also* United States v. Robertson, 946 F.3d 1168, 1171 (10th Cir. 2020) (rejecting a heightened standard, noting that only the Ninth Circuit has adopted this standard and five other circuits have rejected it).

⁷⁷ *See* United States v. Newton, 76 F.4th 662, 674 (7th Cir. 2023) (loss calculation was clearly erroneous where “only speculation can support the district court’s starting presumption that 90% of Medicare reimbursements . . . were fraudulent”); United States v. Burns, 843 F.3d 679, 688–89 (7th Cir. 2016) (the district court committed plain error by enhancing sentence based on a loss amount without making specific factual findings); United States v. Warshak, 631 F.3d 266, 329–30 (6th Cir. 2010) (remanding where the district court’s explanation of its loss determination was inadequate); United States v. Hall, 610 F.3d 727, 745 (D.C. Cir. 2010) (remanding for resentencing where the district court provided no reason for finding loss in excess of one million dollars); United States v. Gupta, 572 F.3d 878, 889 (11th Cir. 2009) (reversing loss calculation where the sentencing judge “pick[ed] a figure . . . about half way in between” two competing estimates without giving any non-arbitrary reason therefor); United States v. Medina, 485 F.3d 1291, 1304–05 (11th Cir. 2007) (“[T]he district court clearly erred when it did not make specific factual findings upon which to base the loss amounts attributable to each individual defendant.”).

⁷⁸ *See, e.g.*, United States v. Belfrey, 928 F.3d 746, 751 (8th Cir. 2019) (any error in calculating loss was harmless where district court stated that whether loss was \$18 million or \$4 million, it would not affect the sentence because the guideline range was higher than the sentence the court deemed appropriate); United States v. Griffith, 584 F.3d 1004, 1017 (10th Cir. 2009) (finding the inclusion of \$28,130 in extra loss to be harmless despite its effect of increasing the offense level enhancement because the district court stated on the record it would have sentenced defendant to same term of imprisonment notwithstanding a lower loss amount).

⁷⁹ *See* United States v. Yurek, 925 F.3d 423, 442–43 (10th Cir. 2019) (affirming loss calculation based on the amount defendant was trying to discharge in bankruptcy and collecting circuit cases discussing different approaches in bankruptcy fraud cases).

⁸⁰ United States v. Sullivan, 765 F.3d 712, 716 (7th Cir. 2014).

⁸¹ United States v. Harmon, 944 F.3d 734, 736–38 (8th Cir. 2019).

The sentencing judge may consider a wider variety of evidence to calculate loss. For example, courts have relied upon:

- hearsay testimony of a corporate investigator based on information provided by an informant;⁸²
- cash deposits made into the defendant’s account in a case involving multiple cash thefts;⁸³
- the defendant’s own trial testimony;⁸⁴ and
- statistical extrapolation based on a representative sample.⁸⁵

A defendant who challenges a district court’s loss calculation carries a heavy burden and must show that the calculation was not just inaccurate, but “outside the realm of permissible computations.”⁸⁶ The sentencing judge also may choose among viable competing methods.⁸⁷ The sentencing judge, however, cannot assign a loss figure “arbitrarily” or with no findings, and the court must develop some evidence to support the loss figure.⁸⁸

⁸² United States v. Bogdanov, 863 F.3d 630, 634–35 (7th Cir. 2017).

⁸³ United States v. Hahn, 551 F.3d 977, 980–81 (10th Cir. 2008).

⁸⁴ United States v. Norman, 776 F.3d 67, 79–80 (2d Cir. 2015).

⁸⁵ See United States v. Alfaro, 30 F.4th 514, 519 (5th Cir. 2022) (affirming the district court’s use of an extrapolation method in an investment fraud case involving many investors and citing past circuit cases “affirm[ing] that method to calculate loss amounts in other fraud cases”); United States v. Matheny, 42 F.4th 837, 845 (8th Cir. 2022) (district court did not clearly err by extrapolating loss amount from a one-month review period within a four-year fraud scheme because, “[e]specially where the defendant’s scheme encompassed many fraudulent acts over a long period of time, extrapolating from a representative sample may yield ‘a reasonable estimate,’” and noting that the specific sample in this case may have been skewed in defendant’s favor); United States v. Annamalai, 939 F.3d 1216, 1235–37 (11th Cir. 2019) (affirming loss figure that assumed all credit card disputes were related to fraudulent activity based on evidence that related to a portion of those disputes, and collecting cases “approv[ing] of statistical extrapolation or sampling to determine a reasonable estimate of loss”).

⁸⁶ See United States v. Nicolescu, 17 F.4th 706, 720 (6th Cir. 2021) (“In challenging the court’s loss calculation, [the defendant] must carry the heavy burden of persuading this Court that the evaluation of loss was not only inaccurate, but also outside the realm of permissible computations.” (citation omitted)); United States v. Elizondo, 21 F.4th 453, 473 (7th Cir. 2021) (same); see also United States v. Lewis, 594 F.3d 1270, 1289 (10th Cir. 2010) (a defendant must provide “substantial ground for rejecting the district court’s determination that the evidence used by the government was reliable”).

⁸⁷ See United States v. Campbell, 765 F.3d 1291, 1304 (11th Cir. 2014) (rejecting defendant’s argument that the court was required to examine itemized proof of individualized fraudulent transactions; emphasizing fact-specific nature of proof); United States v. McMillan, 600 F.3d 434, 458–59 (5th Cir. 2010) (when the sentencing court has contradictory and “hotly contested” testimony and evidence regarding loss, the appellate court cannot conclude that the sentencing court committed clear error in selecting one or the other theory).

⁸⁸ See, e.g., United States v. Warshak, 631 F.3d 266, 329–30 (6th Cir. 2010) (remanding where the district court’s explanation of its loss determination was inadequate); United States v. Hall, 610 F.3d 727, 745 (D.C. Cir. 2010) (remanding for resentencing where the district court provided no reason for finding loss in excess of one million dollars); United States v. Gupta, 572 F.3d 878, 889 (11th Cir. 2009) (reversing loss

B. RELEVANT FACTORS

As noted above, the loss estimate must be based on available information, considering various factors that are “appropriate and practicable under the circumstances.”⁸⁹ The sentencing judge can consider general factors in estimating loss, “such as the scope and duration of the offense and revenues generated by similar operations.”⁹⁰ Specific factors to consider also are set forth in the application notes, some of which are discussed below.

1. Fair Market Value

The first factor that courts may consider is “[t]he fair market value of the property unlawfully taken, copied, or destroyed; or, if the fair market value is impracticable to determine or inadequately measures the harm, the cost to the victim of replacing that property.”⁹¹

Several cases have discussed how fair market value is determined. Fair market value of certain services, such as insurance coverage, can be determined by their cost or premium value.⁹² Fair market value of items that have a wholesale or retail value are typically determined on a case-by-case basis. For example, the Ninth Circuit has found that the loss should be the wholesale value of the stolen items where the true owner intended to sell the items at such prices.⁹³ In contrast, when the items in question were taken from retailers, courts have reasoned that “the price at which the retailers would have sold that merchandise serves as a reasonable estimate of the loss.”⁹⁴ Courts must determine the intended victims and the market in which the goods would be sold to determine whether it is appropriate to measure loss using wholesale value or retail value.⁹⁵

The court can assess a fair market value that is higher than the replacement cost or production costs. For instance, where a lottery retailer generated \$525,586 in fraudulent

calculation where the sentencing judge “pick[ed] a figure . . . about half way in between” two competing estimates without giving any non-arbitrary reason therefor); *United States v. Higgins*, 270 F.3d 1070, 1075–76 (7th Cir. 2001) (trial court made insufficient findings regarding loss); *United States v. Oseby*, 148 F.3d 1016, 1025–27 (8th Cir. 1998) (same).

⁸⁹ USSG §2B1.1, comment. (n.3(C)).

⁹⁰ USSG §2B1.1, comment. (n.3(C)(vi)).

⁹¹ USSG §2B1.1, comment. (n.3(C)(i)).

⁹² *United States v. Simpson*, 538 F.3d 459, 463 (6th Cir. 2008).

⁹³ *United States v. Hardy*, 289 F.3d 608, 613–14 (9th Cir. 2002).

⁹⁴ *United States v. Wasz*, 450 F.3d 720, 727 (7th Cir. 2006) (collecting cases from different circuits).

⁹⁵ *United States v. Qazah*, 810 F.3d 879, 888–90 (4th Cir. 2015) (vacating and remanding sentence based on loss amount calculated at retail value because district court did not adequately gather facts to determine, for example, whether intended victim was only a large cigarette wholesaler or also included retailers); *United States v. Lige*, 635 F.3d 668, 671–72 (5th Cir. 2011) (affirming district court’s use of retail prices of stolen phones rather than wholesale prices because the providers offered the phones for sale in the retail market).

lottery tickets with a winning redemption value of \$296,153, the D.C. Circuit held that the “reasonable estimate” of loss caused by his fraud was the fair market value of the tickets at the time they were purchased (their sale value of \$525,586).⁹⁶

When loss may fluctuate, sentencing judges have determined “fair market value” on the date the fraud occurred or ceased.⁹⁷ There is “no error in selecting the end of the conspiracy as an appropriate date from which to calculate loss.”⁹⁸

As noted above, replacement costs also can be used to make a loss estimate where “fair market value is impracticable to determine or inadequately measures the harm.”⁹⁹ For example, the Eleventh Circuit determined that actual cash value was inadequate to measure the harm caused by burning down a church; instead, it relied on replacement cost as the “only effective way to return to the victims the fair equivalent of what they lost.”¹⁰⁰

2. Development Costs

In the case of theft of trade secrets or other proprietary information, it is often difficult to estimate fair market value, in which case “the cost of developing that information or the reduction in the value of that information” may be used.¹⁰¹ However, the government still must prove that the development costs are either an appropriate measure of actual loss¹⁰² or that the defendant intended that amount of loss.¹⁰³

⁹⁶ United States v. Bae, 250 F.3d 774, 776–78 (D.C. Cir. 2001); *see also* United States v. Onyiego, 286 F.3d 249, 253, 256 (5th Cir. 2002) (face value accurately determined “loss” with respect to stolen airline tickets).

⁹⁷ United States v. Harris, 83 F.4th 1093, 1098–99 (8th Cir. 2023) (vacating sentence based on loss amount calculated using the fair market value of properties at the time of sentencing instead of at the time of the offense); *Bae*, 250 F.3d at 776–77 (“[F]or the purpose of sentencing, the loss associated with . . . fraudulent procurement is equal to the value of the goods at the time of the offense.”); United States v. Hart, 273 F.3d 363, 374 (3d Cir. 2001) (upholding decision to calculate loss at the time fraud ceased and rejecting defendant’s argument that victim could have mitigated losses by selling at a later date).

⁹⁸ *Hart*, 273 F.3d at 374.

⁹⁹ *Lige*, 635 F.3d at 672 (5th Cir. 2011) (quoting USSG §2B1.1, comment. (n.3(C)(i))); *see also* United States v. Howard, 887 F.3d 1072, 1077 & n.1 (10th Cir. 2018) (collecting cases using replacement value as proper measure in the context of determining loss for purposes of the Mandatory Victims Restitution Act).

¹⁰⁰ United States v. Shugart, 176 F.3d 1373, 1375 (11th Cir. 1999).

¹⁰¹ USSG §2B1.1, comment. (n.3(C)(ii)); *cf.* United States v. Howley, 707 F.3d 575, 582–83 (6th Cir. 2013) (clear error for the sentencing court to find the value of stolen trade secrets was zero, when it cost \$520,000 to develop those secrets).

¹⁰² *See* United States v. Snowden, 806 F.3d 1030, 1033–34 (10th Cir. 2015) (explaining that it is inappropriate to use costs of development as actual loss where evidence in the record indicated that the company suffered no business losses, but affirming as harmless error).

¹⁰³ United States v. Pu, 814 F.3d 818, 824–27 (7th Cir. 2016) (clear error to base loss amount on development costs where there was no evidence in record of whether defendant intended any loss).

3. Cost of Repairs

The cost of repairing damaged property also can be used to estimate loss.¹⁰⁴ Improvements to property can be included in loss if they are necessary to repair the damage caused by a defendant. For example, the Fifth Circuit concluded that improvements made to a victim company's computer system after a hacker broke in could be included in the loss figure as necessary repair costs.¹⁰⁵

Some estimated repair costs are specific to certain offenses. For example, the Tenth Circuit applied special provisions relating to the Archaeological Resources Protection Act to determine "repair costs" to damaged Native American sites on federal lands.¹⁰⁶

4. Number of Victims Multiplied by Loss

It is appropriate for the sentencing judge to take an average loss per victim and multiply it by the approximate number of victims to generate a total loss figure in cases where specific losses for individual victims are not easily calculated.¹⁰⁷ Victim is defined as "any person who sustained any part of the actual loss" or "any individual who sustained bodily injury as a result of the offense."¹⁰⁸ For example, in a credit card fraud case, the sentencing judge estimated intended loss based on the average credit card limit multiplied by the number of cards used.¹⁰⁹ Further, such an estimation can include victims who are not aware they have been defrauded or even those who "relay[] their satisfaction with [the] fraudulent treatment."¹¹⁰

5. Reduction in Value of Securities

The reduction in "value of equity securities or other corporate assets" due to the offense may be considered in the estimate of loss.¹¹¹ The guidelines provide for use of a

¹⁰⁴ USSG §2B1.1, comment. (n.3(C)(iii)).

¹⁰⁵ *United States v. Lindsley*, No. 99-11164, 2001 WL 502832, at *3-4 (5th Cir. May 3, 2001) (per curiam) (the security improvements "were the only means available to prevent continued intrusion into [the victim's] computer systems caused by the defendants' activities").

¹⁰⁶ *United States v. Shumway*, 112 F.3d 1413, 1424-26 (10th Cir. 1997); *see also* *United States v. Christianson*, 586 F.3d 532, 535-37 (7th Cir. 2009) (loss was properly calculated as the cost of replacing a government experiment that defendants destroyed by cutting down trees that were experiments' subjects).

¹⁰⁷ USSG §2B1.1, comment. (n.3(C)(iv)); *see, e.g.*, *United States v. Showalter*, 569 F.3d 1150, 1161 (9th Cir. 2009) (noting that Application Note 3 to §2B1.1 allows the court to estimate loss based on multiplying the average loss by the approximate number of victims); *United States v. Abiodun*, 536 F.3d 162, 167-68 (2d Cir. 2008) (same).

¹⁰⁸ USSG §2B1.1, comment. (n.1).

¹⁰⁹ *United States v. Mei*, 315 F.3d 788, 792 (7th Cir. 2003).

¹¹⁰ *United States v. Curran*, 525 F.3d 74, 80 (1st Cir. 2008).

¹¹¹ USSG §2B1.1, comment. (n.3(C)(v)).

“modified rescissory method”¹¹² as one possible method to calculate actual loss in securities and commodities fraud cases, though courts may use “any method that is appropriate and practicable under the circumstances.”¹¹³ Under this method, courts calculate the difference between the average price of the security or commodity during the period that the fraud occurred and the average price of the security or commodity during the 90-day period after the fraud was disclosed to market, then to multiply that difference by the number of shares outstanding.¹¹⁴ “In determining whether the amount . . . is a reasonable estimate of the actual loss . . . , the court may consider, among other factors, the extent to which the [calculation] includes significant changes in value not resulting from the offense”¹¹⁵ Examples of changes that might affect share prices include “changed economic circumstances, changed investor expectations, and new industry-specific or firm-specific facts, conditions, or events.”¹¹⁶

C. SPECIAL RULES

1. Stolen or Counterfeit Credit Cards and Access Devices

“In a case involving any counterfeit access device or unauthorized access device, loss includes any unauthorized charges made with the counterfeit access device or unauthorized access device and shall be not less than \$500 per access device.”¹¹⁷ If, however, the unauthorized access device is a means of telecommunications access identifying a specific instrument or account and was only possessed (not used), the loss assessed shall not be less than \$100.¹¹⁸ Courts generally agree that the \$500 minimum per

¹¹² See USSG App. C, amend. 761 (effective Nov. 1, 2012). The modified rescissory method looks at the difference between the average price of the stock during the period that the fraud occurred and the average stock price during a set period after the fraud was disclosed; the difference between these two average prices is the loss. By averaging the stock price during these periods, the modified rescissory method takes into account factors other than the fraud, such as overall growth or decline in the price of the stock. See, e.g., *United States v. Brown*, 595 F.3d 498, 523–27 (3d Cir. 2010).

¹¹³ USSG §2B1.1, comment. (n.3(F)(ix)).

¹¹⁴ *Id.*

¹¹⁵ *Id.*

¹¹⁶ *Id.*

¹¹⁷ USSG §2B1.1, comment. (n.3(F)(i)). However, the Sixth Circuit has held that where the special rule in Application Note 3(F)(i) provides that loss cannot be less than \$500 per access device, it impermissibly expands the word “loss” as used in the guideline text at §2B1.1(b)(1) and is not entitled to deference. *United States v. Riccardi*, 989 F.3d 476, 483 (6th Cir. 2021). The Ninth Circuit has reached a similar result to the Third Circuit. *United States v. Kirilyuk*, 29 F.4th 1128, 1137 (9th Cir. 2022) (“The question here is simple: Is Note 3(F)(i)’s ‘special rule’ for calculating loss by using a minimum \$500-per-card multiplier consistent with the plain meaning of “loss”? We hold that it is not.”).

¹¹⁸ USSG §2B1.1, comment. (n.3(F)(i)) (“[I]f the unauthorized access device is a means of telecommunications access that identifies a specific telecommunications instrument or telecommunications account (including an electronic serial number/mobile identification number (ESN/MIN) pair), and that means was only possessed, and not used, during the commission of the offense, loss shall not be less than \$100 per unused means.”).

access device applies even if the device was not used.¹¹⁹ They disagree, however, on whether the device must be *usable*—that is, currently or potentially functional. The Ninth Circuit requires usability;¹²⁰ other circuits do not.¹²¹

The Ninth Circuit has held that when skimming devices are used to obtain account numbers used at a particular location like an ATM, the sentencing court must make a reasonable estimate of the specific number of account numbers obtained based on evidence, rather than hold the defendant accountable for every access device used at that location.¹²²

2. Government Benefits

In cases “involving government benefits (*e.g.*, grants, loans, entitlement program payments),” loss should not be less than “the value of the benefits obtained by unintended recipients or diverted to unintended uses.”¹²³ A sentencing judge may use the face value of the claims for government benefits as the starting point in calculating loss, and the burden of production then shifts to the defendant to offer evidence showing which claims were for legitimate amounts.¹²⁴ The final amount of loss should be determined based on the amount the government, which continues to hold the ultimate burden of proof, is able to establish.¹²⁵

¹¹⁹ See, *e.g.*, *United States v. Rueda*, 933 F.3d 6, 10 (1st Cir. 2019) (provisions of special rule apply “regardless of whether each access device was actually charged” (emphasis omitted)); *United States v. Thomas*, 841 F.3d 760, 764 (8th Cir. 2016) (special rule “may be applied to fraudulent cards which have been merely possessed rather than used”); *United States v. Moore*, 788 F.3d 693, 695 (7th Cir. 2015) (stolen cards need not have been used for special rule to apply).

¹²⁰ *United States v. Onyesoh*, 674 F.3d 1157, 1159 (9th Cir. 2012) (the \$500 minimum applies only to unauthorized devices that are “usable”).

¹²¹ See *United States v. Rueda*, 933 F.3d 6, 9–10 (1st Cir. 2019) (Application Note 3(F)(i) applied to each counterfeit or unauthorized access device, without additional proof that the device “can be used”); *United States v. Carver*, 916 F.3d 398, 403 (4th Cir. 2019) (rejecting a usability standard); *United States v. Popovski*, 872 F.3d 552, 554 (7th Cir. 2017) (“The district judge therefore was entitled to rely on the rule in Application Note 3(F)(i) without requiring card-by-card proof of functionality while the scheme was in operation.”); *United States v. Moon*, 808 F.3d 1085, 1091–92 (6th Cir. 2015) (the \$500 minimum applies to each device regardless of whether the device was in fact useable, and collecting cases); see also *United States v. Thomas*, 841 F.3d 760, 764–65 (8th Cir. 2016) (in light of circuit split, district court did not commit plain error by not requiring proof of usability).

¹²² *United States v. Gainza*, 982 F.3d 762, 765–66 (9th Cir. 2020).

¹²³ USSG §2B1.1, comment. (n.3(F)(ii)).

¹²⁴ *United States v. Rivera-Ortiz*, 14 F.4th 91, 103 (1st Cir. 2021) (affirming the district court’s use of the face value of the defendant’s total benefits as the starting and end point for the loss calculation, where the government had produced payment history and beneficiary list evidence and the defendant had not put forth any additional evidence).

¹²⁵ *Id.*

A sentencing judge should not calculate loss based on the total amount of benefits received if a portion of those benefits would have been received absent the fraud.¹²⁶ For example, the Third Circuit reasoned that the loss derived by a defendant's fraudulent receipt of worker's compensation benefits was "the difference between the amount of benefits actually obtained . . . and the amount the government intended him to receive during the relevant period."¹²⁷ However, where the government shows the fraud to be "so extensive and pervasive that separating legitimate benefits from fraudulent ones is not reasonably practicable, the burden shifts to the defendant" to identify which benefits were legitimate.¹²⁸ Absent such a showing by the defendant, the district court may reasonably treat the entire claim as intended loss.¹²⁹

Courts have disagreed about whether to apply this special rule where defendants have improperly received benefits pursuant to a set-aside or similar program that awards a certain percentage of government procurement contracts to socially or economically disadvantaged businesses. A number of courts have held that because the purpose of the programs is to benefit minority-owned or small businesses, they are effectively "benefits" and loss cannot be reduced by the value of services actually rendered.¹³⁰ More recently, the Third, Fifth, Sixth, and Ninth Circuits have disagreed, concluding that procurement fraud involving set-aside programs should be treated under the general rules for loss calculation like any other procurement fraud.¹³¹

¹²⁶ USSG §2B1.1, comment. (n.3(F)(ii)) ("For example, if the defendant was the intended recipient of food stamps having a value of \$100 but fraudulently received food stamps having a value of \$150, loss is \$50."); *see also* *United States v. Harms*, 442 F.3d 367, 379 (5th Cir. 2006).

¹²⁷ *United States v. Tupone*, 442 F.3d 145, 154 (3d Cir. 2006); *see also* *United States v. Catone*, 769 F.3d 866, 876–77 (4th Cir. 2014) (construing Application Note 3(F)(ii) to require courts to distinguish between legitimate and illegitimate benefits in calculating loss; remanding because trial court failed to identify what, if any, portion of unemployment benefits could have been legitimately obtained).

¹²⁸ *United States v. Hebron*, 684 F.3d 554, 563 (5th Cir. 2012).

¹²⁹ *Id.*

¹³⁰ *See, e.g., United States v. Maxwell*, 579 F.3d 1282, 1306 (11th Cir. 2009) (appropriate amount of loss is entire value of contracts that were diverted from the intended recipient); *United States v. Leahy*, 464 F.3d 773, 790 (7th Cir. 2006) (a municipal minority contracting program was a "government benefits" program under §2F1.1, §2B1.1's predecessor); *United States v. Bros. Constr. Co. of Ohio*, 219 F.3d 300, 317–18 (4th Cir. 2000) (fraudulent receipt of Disadvantaged Business Enterprise funds involved the diversion of "government benefits"). *But see* *United States v. Near*, 708 F. App'x 590, 603–04 (11th Cir. 2017) (per curiam) (no error in district court's decision not to apply government benefits rule where contracts were properly awarded to small business but some of the funds were diverted to unintended uses; "*Maxwell* does not speak to whether the value of services provided by an intended recipient can be credited against losses caused by that recipient's unintended use of funds. We are persuaded that such losses can be offset by the value of service provided.")

¹³¹ *United States v. Kousisis*, 82 F.4th 230, 248 (3d Cir. 2023) ("[W]e now expressly hold that the government benefits rule under [§2B1.1,] Note 3(F)(ii) does not apply to [disadvantaged business enterprises ("DBE")] procurement fraud cases such as the one here."), *petition for cert. filed*, No. 23-909 (U.S. Feb. 22, 2024); *United States v. Kozerski*, 969 F.3d 310, 313–14 (6th Cir. 2020); *United States v. Harris*, 821 F.3d 589, 602–04 (5th Cir. 2016); *United States v. Martin*, 796 F.3d 1101, 1110–11 (9th Cir. 2015).

For example, the Fifth Circuit explained that “[t]he mere fact that a government contract furthers some public policy objective apart from the government’s procurement needs is not enough to transform the contract into a ‘government benefit’ akin to a grant or an entitlement program payment.”¹³² Similarly, the Ninth Circuit contrasted fraudulent procurement of set-aside contracts with benefits that unilaterally benefit the recipient, like food stamps, explaining that loss to the government should not be the full value of the contracts where those contracts were fully or partially performed.¹³³ Recently, the Sixth Circuit cited to both the Fifth and Ninth Circuits in holding that the government benefits rule does not apply to the loss associated with a defendant’s fraudulent procurement of set-aside contracts for veterans.¹³⁴

The Third Circuit has held that regardless of whether loss is calculated under typical loss rules or under the government benefit rules, the appropriate measure of loss is the value of the contracts less the fair market value of the services rendered under those contracts.¹³⁵ In explaining its ruling, the court determined that where the government benefits rule applied, it was not inconsistent to also apply Application Note 3(E)(i), which requires that the fair market value of the property returned and services rendered be credited against the loss.¹³⁶

3. *Davis-Bacon Act Violations*

The loss involving a violation of the Davis-Bacon Act,¹³⁷ concerning the payment structure under employment contracts for government-funded projects, will be “not less than the difference between the legally required wages and the actual wages paid.”¹³⁸

¹³² *Harris*, 821 F.3d at 604.

¹³³ *Martin*, 796 F.3d at 1109–12 (remanding and suggesting possible methods to consider loss, including potential premium paid by the government above what it would have paid in competitive bidding process, non-pecuniary harm to the integrity of the program, and harm to legitimate contractors that might otherwise have been awarded the contract).

¹³⁴ *Kozerski*, 969 F.3d at 313–14.

¹³⁵ *United States v. Nagle*, 803 F.3d 167, 179–183 (3d Cir. 2015) (loss calculation “is the face value of the contracts [the company] received minus the fair market value of the services they provided under the contracts” because the special rule only supplants Application Note 3(A)’s definition of “loss” and, therefore, under Application Note 3(E)(i), a loss reduction for services rendered is nonetheless required); *see also* *United States v. Shulick*, 18 F.4th 91, 114 (3d Cir. 2021) (holding that regardless of whether the defendant’s management of school district budgeting was a “fee-for-service business deal” or a case involving government benefits, the proper loss amount was the difference between the face value of the contracts and the value of services the defendant actually provided).

¹³⁶ *Nagle*, 803 F.3d at 179–83. The Seventh Circuit is the only circuit to apply Application Note 3(F)(v) (relating to, among other things, cases where regulatory approval by a government agency is obtained by fraud) in this context. *See infra* Section IV.C.5 (citing *United States v. Giovenco*, 773 F.3d 866, 870–71 (7th Cir. 2014)).

¹³⁷ 40 U.S.C. § 3142; 18 U.S.C. § 1001.

¹³⁸ USSG §2B1.1, comment. (n.3(F)(iii)); *see also, e.g.*, *United States v. Clark*, 787 F.3d 451, 464–65 (7th Cir. 2015) (district court properly applied loss enhancement because defendant “caused” actual loss to employees

4. Ponzi and Other Fraudulent Schemes

In a case involving a fraudulent investment scheme, “loss shall not be reduced by the money or the value of the property transferred to any individual investor in the scheme in excess of that investor’s principal investment.”¹³⁹ For example, in Ponzi scheme cases, where payments routinely are made to some or all of the victims, the defendant will receive no credit for payments that exceeded the investor’s principal investment.¹⁴⁰

As discussed in Section V.A, losses, whether actual or intended, “shall not include . . . [i]nterest of any kind, finance charges, late fees, penalties, amounts based on an agreed-upon return or rate of return, or other similar costs.”¹⁴¹ In the context of a Ponzi scheme, however, courts have recognized a distinction between the general prohibition on interest and the earnings reinvested by victims of a Ponzi scheme. The Second Circuit joined the Eighth Circuit in holding that “a federal sentencing court can include as part of its ‘intended loss’ determination those earnings that victims reinvested in a Ponzi scheme, even though those ‘earnings’ were invented as part of the scheme itself.”¹⁴² The court noted that “[w]hen an investor in a Ponzi scheme faces the choice either to withdraw or to reinvest, the choice to reinvest—an act frequently necessary to maintain the scheme itself—transforms promised interest into realized gain that can be used in the computation of loss for the purposes of federal sentencing.”¹⁴³ The court further stated, that, “[i]n such a case, only the most recent promised or reported interest gains are excluded from sentencing consideration as per the [g]uidelines’ exclusion of interest or rates of return from the loss calculation.”¹⁴⁴

5. Certain Other Unlawful Misrepresentation Schemes

When defendants falsely pose as licensed professionals, represent that products are approved by the government when they are not, fail to properly obtain approval for

by false statements regarding wages; government’s ability to stop payments to subcontractors meant that defendant’s lies caused “loss” within the meaning of the guidelines).

¹³⁹ USSG §2B1.1, comment. (n.3(F)(iv)).

¹⁴⁰ See *id.*; see also *United States v. Snelling*, 768 F.3d 509, 512–13 (6th Cir. 2014) (remanding case where district court failed to credit against loss amounts repaid that were *not* in excess of amounts invested); *United States v. Hartstein*, 500 F.3d 790, 797–800 (8th Cir. 2007) (it is the government’s burden to provide evidence of the “defendant’s intent as to any particular victim or group of victims” before it can be proved that any scheme was intended to be a “Ponzi scheme,” and thus apply the provisions of Application Note 3(F)(iv)). The Eighth Circuit has explained that the government “need not present direct evidence about the circumstances of each alleged victim” when a defendant “never contended that he accepted money for any purpose other than his fraudulent scheme.” *United States v. Hatchett*, 622 F.3d 984, 987 (8th Cir. 2010).

¹⁴¹ USSG §2B1.1, comment. (n.3(D)).

¹⁴² *United States v. Hsu*, 669 F.3d 112, 120, 121 n.4 (2d Cir. 2012) (citing *United States v. Alfonso*, 479 F.3d 570 (8th Cir. 2007) and *Hartstein*, 500 F.3d at 800).

¹⁴³ *Id.* at 121.

¹⁴⁴ *Id.*

regulated goods, or fraudulently obtain approval for goods from the government, the loss shall include “the amount paid for the property, services or goods transferred, rendered, or misrepresented, with no credit provided for the value of those items or services.”¹⁴⁵ For example, a defendant received no credit for the value of the misbranded prescription drugs he sold to victims even where there was no evidence that the drugs that were delivered did not perform as promised.¹⁴⁶ Nor will a defendant receive credit for legal services rendered where he or she falsely claimed to be a licensed attorney.¹⁴⁷ Similarly, the Seventh Circuit has held that Application Note 3(F)(v) applies to some circumstances in which defendants falsely claim qualifications to participate in set-aside programs.¹⁴⁸

6. Value of Controlled Substances

The loss in a case involving controlled substances is the estimated street value of the substances involved.¹⁴⁹

7. Value of Cultural Heritage Resources or Paleontological Resources

The value of a “cultural heritage resource” or “paleontological resource” shall include the archaeological value, the commercial value, or the cost of restoration.¹⁵⁰ The court “need only make a reasonable estimate of the value of the resource based on available information.”¹⁵¹

8. Federal Health Care Offenses Involving Government Health Care Programs

In federal health care fraud offenses involving a government health care program, “the aggregate dollar amount of fraudulent bills submitted to the Government health care program shall constitute prima facie evidence of the amount of the intended loss, *i.e.*, is evidence sufficient to establish the amount of the intended loss, if not rebutted.”¹⁵²

¹⁴⁵ USSG §2B1.1, comment. (n.3(F)(v)).

¹⁴⁶ *United States v. Milstein*, 401 F.3d 53, 74 (2d Cir. 2005) (per curiam).

¹⁴⁷ *See, e.g., United States v. Kieffer*, 621 F.3d 825, 834 (8th Cir. 2010).

¹⁴⁸ *See United States v. Giovenco*, 773 F.3d 866, 870–71 (7th Cir. 2014) (relying on Application Note 3(F)(v); counting as loss entire amount improperly paid under contract without credit for services provided when defendants obtained contract based on false claims that they were a minority-owned business).

¹⁴⁹ USSG §2B1.1, comment. (n.3(F)(vi)).

¹⁵⁰ USSG §2B1.1, comment. (n.3(F)(vii)); USSG §2B1.5, comment. (n.2(A)); *see also United States v. Shumway*, 112 F.3d 1413, 1424–26 (10th Cir. 1997) (affirming the district court’s calculation of loss based on testimony regarding the archeological value and cost of repair of archeological sites that the defendant unlawfully excavated).

¹⁵¹ USSG §2B1.5, comment. (n.2(B)); *see also United States v. McCarty*, 628 F.3d 284, 290–91 (6th Cir. 2010) (discussing commentary regarding the value of a cultural heritage resource in the context of stolen antique books).

¹⁵² USSG §2B1.1, comment. (n.3(F)(viii)).

However, objections to the loss amount alone do not constitute competent rebuttal evidence.¹⁵³ A defendant instead must put forth evidence of legitimate services rendered¹⁵⁴ or other specific evidence that a lower loss amount was intended.¹⁵⁵

Courts have discounted the loss amount by the services rendered only if those services are medically necessary and otherwise in compliance with regulations.¹⁵⁶ For example, in a kickback scheme between a doctor and home healthcare agencies (HHAs), the services billed by the HHAs to Medicare were properly included in the overall loss amount attributed to the doctor, who had falsely certified the need for home healthcare for non-homebound patients, but the services the doctor provided that Medicare would have covered absent the fraud were excluded from the loss amount.¹⁵⁷

V. EXCLUSIONS FROM LOSS

A. INTEREST, FINANCE CHARGES, LATE FEES, PENALTIES AND SIMILAR COSTS

The loss calculation excludes any interest, “finance charges, late fees, penalties, amounts based on an agreed-upon return or rate of return, or other similar costs.”¹⁵⁸

¹⁵³ See, e.g., *United States v. Iwuala*, 789 F.3d 1, 14–15 (1st Cir. 2015) (“[T]here is no evidence in this record that would have compelled the district court to find that the defendant knew that the amount billed was more than the scheduled amounts that Medicare routinely paid.”); *United States v. Ohia*, 618 F. App’x 225, 226 (5th Cir. 2015) (per curiam) (defendant’s objections to the loss amount did not constitute competent rebuttal evidence).

¹⁵⁴ See *United States v. King*, 93 F.4th 845, 852 (5th Cir. 2024) (“The government here proved by preponderance of the evidence that [the doctor’s] entire operation was fraudulent [and] provided no legitimate medical care [The defendants], in contrast, failed to offer rebuttal evidence of any legitimate medical expenses billed to Medicare that should be set off from the \$537,992.55 paid to [them] for ‘treatment’ provided.”); *United States v. Karie*, 976 F.3d 800, 804 (8th Cir. 2020) (affirming loss calculation where defendant did not present evidence of legitimate daycare services); *United States v. Bikundi*, 926 F.3d 761, 797–98 (D.C. Cir. 2019) (per curiam) (affirming \$80 million loss calculation because defendants “did not produce evidence of [legitimate] services with any specificity”); cf. *United States v. Adebimpe*, 649 F. App’x. 449, 452 (9th Cir. 2016) (“In calculating the amount of the intended loss, the district court was not required to discount the value of any wheelchairs that happened to be medically necessary, because the medical examinations mandated to determine medical necessity were not performed.”).

¹⁵⁵ Compare *United States v. Valdez*, 726 F.3d 684, 696 (5th Cir. 2013) (district court committed error in failing to consider audiotape demonstrating that defendant anticipated being paid far less than what he billed to Medicaid), with *United States v. Elliot*, 600 F. App’x 225, 228–30 (5th Cir. 2015) (per curiam) (district court did not err in calculating loss at full amount billed where it considered, but did not find credible, defendant’s evidence that he intended a lower loss amount).

¹⁵⁶ See, e.g., *United States v. Hamilton*, 37 F.4th 246, 264–66 (5th Cir.), cert. denied, 143 S. Ct. 450 (2022).

¹⁵⁷ *Id.*; see also *United States v. Emordi*, 959 F.3d 644, 652–53 (5th Cir. 2020) (defendant was not entitled to discount in loss amount because Medicare and Medicaid would not have paid for services rendered because defendant was excluded from working as a provider).

¹⁵⁸ USSG §2B1.1, comment. (n.3(D)(i)).

B. COSTS TO THE GOVERNMENT AND COSTS INCURRED BY VICTIMS

In addition, the costs to the government and the costs incurred by victims to aid in the investigation and prosecution of a defendant are not included in any loss calculation.¹⁵⁹ By contrast, costs incurred by a bank for investigating its own employee (the defendant) may be considered because the investigation was an “immediate response” to the defendant’s conduct and was not conducted primarily to aid the government in prosecution.¹⁶⁰ Amounts reimbursed to victims by insurance companies are not excluded from loss because this “merely shifts the loss to another victim (the insurance company).”¹⁶¹

VI. CREDITS AGAINST LOSS

A. MONEY AND PROPERTY RETURNED/SERVICES RENDERED

Loss shall be reduced by “money returned, and the fair market value of the property returned and the services rendered, by the defendant or other persons acting jointly with the defendant, to the victim *before* the offense was detected.”¹⁶² Failure to credit such value may constitute reversible error.¹⁶³ However, where the fraud is so pervasive that it is not reasonably practicable to separate legitimate from fraudulent conduct, the burden shifts to the defendant to prove the legitimate amount.¹⁶⁴

Detection of the offense occurs at “the earlier of (I) the time the offense was discovered by a victim or government agency; or (II) the time the defendant knew or reasonably should have known that the offense was detected or about to be detected by a

¹⁵⁹ USSG §2B1.1, comment. (n.3(D)(ii)); *see also* United States v. Schuster, 467 F.3d 614, 618–20 (7th Cir. 2006) (reversing loss figure that included such costs).

¹⁶⁰ United States v. DeRosier, 501 F.3d 888, 895 (8th Cir. 2007); *see also* United States v. Levy, 18 F.4th 1019, 1022 (8th Cir. 2021) (district court did not err in including cost of hospital’s “lookback” review of defendant’s pathology cases in loss amount because it was conducted for the benefit of the business, not the criminal investigation, and would have been done regardless of whether there was a criminal investigation).

¹⁶¹ *See, e.g.*, United States v. Kitts, 27 F.4th 777, 789 (1st Cir. 2022) (quotations and citation omitted).

¹⁶² USSG §2B1.1, comment. (n.3(E)(i)) (emphasis added); *see also* United States v. Campbell, 765 F.3d 1291, 1305 (11th Cir. 2014) (although court may be justified in treating all money transfers as loss when conduct is “permeated” with fraud, “value may be rendered even amid fraudulent conduct” and defendant appropriately received credit for such value (internal citation and punctuation omitted)); United States v. Klein, 543 F.3d 206, 214–15 (5th Cir. 2008) (district court erred by failing to offset loss to insurers by value of drugs that patients actually needed).

¹⁶³ *See, e.g.*, United States v. Alphas, 785 F.3d 775, 784 (1st Cir. 2015) (remanding case to allow determination as to amounts, if any, that would have legitimately been paid for insurance claims that were artificially inflated but may have contained genuine claims; “void-for-fraud” clauses in insurance policy did not change analysis and “intended loss”).

¹⁶⁴ *See, e.g.*, United States v. Mazkouri, 945 F.3d 293, 304 (5th Cir. 2019) (rejecting defendant’s argument that some of the billings to Medicare were not fraudulent without specific evidence); *Alphas*, 785 F.3d at 784.

victim or government agency.”¹⁶⁵ Property returned after detection will not be credited against the loss figure.¹⁶⁶ For example, a sentencing judge declined to subtract the value of money returned after discovery of the offense, reasoning that “[t]he fact that a victim has recovered part of its loss after discovery of a fraud does not diminish a defendant’s culpability for purposes of sentencing.”¹⁶⁷ Additionally, services rendered before discovery may not qualify for a credit against loss if the defendant was not authorized to provide or the beneficiaries were ineligible to receive those services.¹⁶⁸

Timing is not the only consideration when determining whether a credit applies against the loss figure. For example, a personal injury lawyer received kickbacks from a chiropractor to whom he referred clients and argued at sentencing that the loss figure should be reduced by the “valuable free services” and legal fee reductions he provided the victim clients.¹⁶⁹ The court declined to adopt this approach because the lawyer routinely provided these services to all of his clients, not just those defrauded, and the “net detriment” to those victims was not lessened relative to the other clients.¹⁷⁰

Courts also have found that a defendant is not entitled to a credit when the defendant’s objective in repaying a victim is to perpetuate ongoing fraud. For example, the Eighth Circuit held that a defendant should receive no credit for amounts he had returned to a victim only to prevent discovery of his fraud.¹⁷¹ The defendant had encouraged his cousin to allow him to invest his money in an organization that would supposedly provide substantial yields with little risks but instead appropriated the funds for his own use. Over several years, he returned about one-third of the money, but “only when repeatedly confronted with [the victim’s] desperate medical needs or threats of legal action by third parties, either of which could have foreseeably led to discovery of the scheme.”¹⁷² Under the circumstances, the court concluded that the defendant should receive no credit because he had effectively intended to defraud his relatives of the entire amount invested.¹⁷³

¹⁶⁵ USSG §2B1.1, comment. (n.3(E)(i)).

¹⁶⁶ See *United States v. Gordon*, 37 F.4th 767, 775 (1st Cir.) (defendant is not entitled to a credit for refunds to victims made after he received a demand letter from the state Attorney General’s Office, which put him on notice that his offenses had been detected), *cert. denied*, 143 S. Ct. 340 (2022).

¹⁶⁷ *United States v. Merriman*, 647 F.3d 1002, 1005 (10th Cir. 2011) (quoting *United States v. Swanson*, 360 F.3d 1155, 1168–69 (10th Cir. 2004)).

¹⁶⁸ See *supra* notes 156–57 and accompanying text (discussing loss calculation in the healthcare fraud context).

¹⁶⁹ *United States v. Hausmann*, 345 F.3d 952, 959–60 (7th Cir. 2003).

¹⁷⁰ *Id.* at 960.

¹⁷¹ *United States v. Callaway*, 762 F.3d 754, 759–60 (8th Cir. 2014).

¹⁷² *Id.* (payments to victim were “necessary to give [defendant’s] scheme a veneer of legitimacy”); see also *United States v. Stochel*, 901 F.3d 883, 890–91 (7th Cir. 2018) (defendant not entitled to offset where he paid some funds towards genuine receivership expenses because they were made to conceal and “were essentially the cost of perpetuating the scheme”).

¹⁷³ *Callaway*, 762 F.3d at 760.

Additionally, a defendant's loss calculation is not reduced by costs incurred in defrauding victims. Thus, when a defendant engages in fraud to raise money for his business operation, the portion of those funds used for business expenses cannot be credited against loss because nothing of value is conferred on the victims.¹⁷⁴

B. COLLATERAL

"In a case involving collateral pledged or otherwise provided by the defendant," loss will be reduced by "the amount the victim has recovered at the time of sentencing from disposition of the collateral, or if the collateral has not been disposed of by that time, the fair market value of the collateral at the time of sentencing."¹⁷⁵ In cases involving a mortgage loan where the property has not been disposed of by the time of sentencing, there is a "rebuttable presumption that the most recent tax assessment value of the collateral is a reasonable estimate of the fair market value."¹⁷⁶ However, where the property has been disposed, the loss amount remains the difference between the unpaid principal balance and the subsequent sale price of the property.¹⁷⁷ In cases in which the loss determination is based on intended rather than actual loss, courts have examined whether the defendant intended for the victim to receive the value of the collateral.¹⁷⁸

At least one circuit has construed Application Note 3(E)(ii) to mean that the "pledge" of such collateral must, like money and property returned, be done before discovery of the offense.¹⁷⁹ There, the Fifth Circuit reasoned that allowing collateral to be "pledged" as late as sentencing "would be totally at odds with the principles embodied in subsection (i) and would alter the long-standing, well-recognized rule that post-detection

¹⁷⁴ See *United States v. Byors*, 586 F.3d 222, 225–26 (2d Cir. 2009); see also *United States v. Alfaro*, 30 F.4th 514, 519 (5th Cir. 2022) ("[B]ecause the investors did not receive any value or benefit from [the defendant's] legitimate business expenditures, there is no reason to credit those amounts against the actual loss amount."); *United States v. Evans*, 744 F.3d 1192, 1198 (10th Cir. 2014) (same).

¹⁷⁵ USSG §2B1.1, comment. (n.3(E)(ii)); see also *United States v. Cavallo*, 790 F.3d 1202, 1232–40 (11th Cir. 2015) (district court correctly used property value at the time of sentencing, rather than value of property years earlier, the time at which the defendant claimed, without substantiation, that he withdrew from mortgage fraud conspiracy).

¹⁷⁶ USSG §2B1.1, comment. (n.3(E)(iii)).

¹⁷⁷ See *United States v. Foley*, 783 F.3d 7, 23 (1st Cir. 2015) (in mortgage fraud cases, the actual loss is "always the difference between the original loan amount and the final foreclosure price (less any principal repayments)"; accordingly, "actual loss usually can be calculated by subtracting the value of the collateral—or, if the lender has foreclosed on and sold the collateral, the amount of the sales price—from the amount of the outstanding balance on the loan" (quoting *United States v. Appolon*, 695 F.3d 44, 67 (1st Cir. 2012))).

¹⁷⁸ See, e.g., *United States v. Lacey*, 699 F.3d 710, 720 (2d Cir. 2012) (allowing the sentencing court to draw an inference, where supported by appropriate evidence, that the intended loss in the case of a loan secured by real property should include an offset for the value of the property); *United States v. McCoy*, 508 F.3d 74, 79 (1st Cir. 2007) ("The guideline makes clear that intended loss—" 'expected' " would be a better term—is to be used where it is higher than actual loss, that expectation being a measure for the defendant's culpability."); *United States v. McCormac*, 309 F.3d 623, 629 (9th Cir. 2002).

¹⁷⁹ *United States v. Austin*, 479 F.3d 363, 369 (5th Cir. 2007).

repayments or pledges of collateral do not reduce the loss.”¹⁸⁰ Additionally, at least one circuit has adopted a rule where an intentional loss figure cannot be reduced by the return of property, even before discovery, if no property was pledged before or during the actual fraud. In a Seventh Circuit case, the defendant secured a fraudulent loan with collateral four months after originally receiving the loan proceeds but before discovery of the fraud.¹⁸¹ The court declined to credit the defendant for the value of the collateral when calculating intended loss, because at the time he received the loan, the defendant had no intention of repaying any part of it.¹⁸²

In mortgage fraud cases, courts often are met with the question of how to calculate actual loss where the defendant fraudulently obtained a loan from one lender who then sold the mortgage to a second lender. The key consideration in such cases is whether the transfer from the original lender to the successor lender was foreseeable to the defendant at the time he or she fraudulently obtained a loan.¹⁸³ Courts have typically found that mortgage reselling was reasonably foreseeable, and thus, the composite loss¹⁸⁴ is the proper measure of actual loss.¹⁸⁵

Several circuits have held that Application Note 3 applies the concept of reasonable foreseeability only to its calculation of “actual loss,” and not to the calculation of “credits against loss.”¹⁸⁶ These courts therefore have rejected arguments that mortgage fraud defendants should receive credits against loss because they could not have reasonably foreseen the economic downturn that led properties to be worth less than they expected. Instead, defendants could receive credit only for the actual value of the collateral to the

¹⁸⁰ *Id.*

¹⁸¹ *United States v. Severson*, 569 F.3d 683, 689–90 (7th Cir. 2009).

¹⁸² *Id.* at 690.

¹⁸³ *Compare* *United States v. James*, 592 F.3d 1109, 1115 (10th Cir. 2010) (where district court determined that successor lender victims were not foreseeable to the defendant, the proper loss amount was initial loan minus transfer price between initial lender and successor lender), *with* *United States v. Smith*, 705 F.3d 1268, 1276 (10th Cir. 2013) (because successor lender victims were foreseeable victims to the defendant, the proper measure of loss was initial loan minus foreclosure sale price). *See also* *United States v. Howard*, 784 F.3d 745, 748 (10th Cir. 2015) (reiterating that total loss may include both original and downstream loans); *United States v. Crowe*, 735 F.3d 1229, 1242 (10th Cir. 2013) (“‘[W]here losses to both original and successor lenders is foreseeable,’ a district court can calculate loss simply by subtracting the foreclosure sales price from the amount of the outstanding balance on the loan.”).

¹⁸⁴ “Composite loss” means the foreclosure proceeds subtracted from original loan amount, adjusted for principal repayments and foreclosure expenses.

¹⁸⁵ *See, e.g., Howard*, 784 F.3d at 748–49; *United States v. Hymas*, 780 F.3d 1285, 1293 (9th Cir. 2015); *Smith*, 705 F.3d at 1276; *United States v. Appolon*, 695 F.3d 44, 67–68 (1st Cir. 2012).

¹⁸⁶ *United States v. Cavallo*, 790 F.3d 1202, 1235 (11th Cir. 2015); *United States v. Morris*, 744 F.3d 1373, 1375 & n.1 (9th Cir. 2014); *United States v. Wendlandt*, 714 F.3d 388, 393–94 (6th Cir. 2013); *Crowe*, 735 F.3d at 1236–37; *United States v. Turk*, 626 F.3d 743, 748–51 (2d Cir. 2010); *accord* *United States v. Mallory*, 461 F. App’x 352, 361 (4th Cir. 2012) (per curiam).

lenders. These courts are at odds with the Eighth Circuit, which has held that the concept of reasonable foreseeability applies to credits against loss as well as to actual loss.¹⁸⁷

¹⁸⁷ *United States v. Parish*, 565 F.3d 528, 535 (8th Cir. 2009); *see also Morris*, 744 F.3d at 1375 n.1 (“[W]e join the Second Circuit in rejecting” *Parish*); *Crowe*, 735 F.3d at 1241 & n.5 (same).