Metrick Schmelzing, Banking-Crisis Interventions Across Space and Time.

February 2024

Appendix D: Full Intervention Chronology, 1,946 Cases, 33 A.D. – 2019.

Key to categories (column 5):

Guarantees:

- **♦ BG:** Blanket guarantees
- **♦ AG:** Account guarantees
- ♦ **ASG**: Asset guarantee
- ♦ **OLG**: Other liability guarantee

Lending:

- ♦ **AHEL:** Ad hoc emergency liquidity
- ♦ **BBEL:** Broad-based emergency liquidity
 - ♦ MLA Market liquidity assistance

Capital injections:

- ♦ **BBCI:** Broad based capital injection Program
 - ♦ **AHCI:** Ad hoc capital injection Program

Asset management:

- ♦ AHAM: Ad hoc asset management program/asset purchases
- ♦ **BBAM:** Broad based or individual asset management Program/asset purchases

Restructuring:

- ♦ **RES:** Restructuring/resolution, or liquidation
- ♦ **BAIL:** forced bail-in, stakeholder intervention program

Rules:

- ♦ **SBH**: Stock market closures/bank holidays/suspension of convertibility
 - ♦ **DPM:** Debt or other payment moratoria
 - ♦ CRL: Capital and regulatory rules
 - ♦ **ORL:** Other rules

Other:

♦ ST: stress testing
 ♦ MC: major communication
 Other: other intervention, suasion, coordination

NO/I: no intervention found, or "laissez faire"/"hands-off" approach by authorities

Conduit (column 6):

ASSOC: Intervention via the involvement of a private banking industry association, fund, or body.

Industry: Intervention via resources targeted at the non-banking industry, for instance to address business NPLs.

Market: Intervention via resources targeted at the wider financial market, rather than banking institutions directly.

SPV: Intervention via the establishment of a new or use of existing Special Purpose Vehicle.

SWF: Intervention via the use of a Sovereign Wealth Fund.

Flags (column 7):

PRI-PRI: intervention with participation of the private sector, either exclusively or partially. **STOW**: intervention into (majority) state-owned entity, or intervention using primarily a state-owned bank as a vehicle.

"Reinhart/Rogoff" – always refers to Reinhart and Rogoff (2009). "Schularick and Taylor" – always refers to Schularick and Taylor (2012). "Baron/Verner/Xiong" – always refers to Baron, Verner, and Xiong (2021). "Laeven and Valencia" – always refers to Laeven and Valencia (2020).

Crisis code	When	Where	Monetary/government response	What	Conduit	Flags	Literature		
PRE-MODERN ERA, 33 A.D1693									
IT-33 A.D.	33 A.D.	Roman Empire	Financial crisis triggered by Caesar's new usury law: widespread calling of loans and plunge in real estate values; banking commission decides to make available 100M sesterces to distressed landowners. Crisis subsides afterwards.	other			Frank 1935.		
IT-1257	January 1257	Genoa	Series of high-profile bank failures over 1256-1259, including Nicola Calvo, Oberto di Nizza, and Leccacorvo Bank. From 1257, Boccanegra government intervenes actively in the crisis, overseeing arbitration between creditors and debtors, organizing the recall of debtors from abroad. Aim is to "soften the blow and save what can be saved" ("ammortizzare le cadute e salvare il salvabile").	other			Lopez 1956, 88ff.		
IT-1259	March 1259	Genoa	Boccanegra government mandates liquidation of Lercari, Ghisolfi and Rovegno Banks, and appoints liquidation committee to oversee dissolution, creditor satisfaction.	RES, other			Lopez 1956, 90f. [and docs. no. 25, 27].		

UK-1290	1290	England	Riccardi Bank difficulties. O'Sullivan (1962) posits a stealth bailout by Irish exchequer payments to firm. Kaeuper (1973) disputes such a bailout.	AHEL	Re 1914; O'Sullivan 1962; Kaeuper 1973, 212f.
IT-1298	1298	Siena	Buonsignori Bank on brink of default: repeated requests to Comune of Siena for help in debt haircuts, interventions at Papacy. But Comune rebuffs requests.	NO/I	Cassandro 1987, 128f.

ES-1299	November 1299	Barcelona	Banking crisis instigated by war with Sicily and crown financial problems, spilling over to Berenguer de Finestres and other merchant bankers. Crown reacts with debt moratoria and pardons granted to some bankers, and (weak form of) deposit insurance (via Cortes 1300).	AG, DPM	Bensch 1989, 325ff.
IT-1307	1307	Siena	Bankruptcy of Buonsignori Bank. Philip IV of France guarantees selected deposits, including a 58,000 livres deposit by Franzesi Bank.	AG	Davidsohn, IV/2, 1925, 331.
	November 1308	Siena	Franzesi Bank defaults itself, with significantly above 12,000fl liabilities. City of Siena grants three-year moratorium on all liabilities, including Franzesi's guarantors.	DPM	Davidsohn, III, 1912, 350f.
BEL-1309	November 1309	Bruges	Hanseatic Leagues receives full guarantee on all subsequent banking system losses from city council. Provision not honored until 1359.	AG, OLG	De Roover 1948, 336; Greve 1996, 7-10.
IT-1309	1309	Florence	T.S. de Mozzi default: Florentine state buys out selected assets, injecting capital (incl. 14,000fl. real estate portfolio). Eventual default in 1321.	AHAM, AHCI	Meltzing 1906, 35.

IT-1312	April 1312	Siena	Run on Tolomei Bank: Sienese Podesta (city council) grants several debt moratoria until July 1313 and aids attempted reconstruction efforts.	DPM		English 1988, 84ff.
IT-1326	August 1326	Florence	Scali Bank default (liabilities ca. 400,000fl.). Bankruptcy proceedings in four countries; Charles Duke of Calabria declares four-month debt moratorium from Aug. 1326; Edward II arrests bank representatives and confiscates assets. Public mediation yields 44.2% liability settlement.	BAIL, DPM	PRI-PRI (partly)	Davidsohn III, 1912, 778f.; Meltzing 1906, 23f.
IT-1342	October 1342	Florence	Banking panic. Walter of Brienne enacts three-year moratorium on all bank debt, announced on 26 October.	DPM		Barbadoro 1929, 622f.
BEL-1351	1351	Bruges	City covers bankruptcy of Van der Buerze money exchanger (reimbursement only for local merchants).	AG, OLG		Greve 1996, 7- 10.
BEL-1359	June 1359	Bruges	City provides full guarantee for all Hanseatic League merchants for losses arising from banking and innkeeper failures, extending 1309 provisions.	AG		De Roover 1948, 338.

ES-1360	June 1360	Barcelona	Default of major municipal banker, Jaume dez Vilar: city offers 100 Pound to competitors Aymeric d'Usay and Jaume de Gualbes to take over accounts.	AHEL, RES			Roustit 1954, 150.
BEL-1359	January 1362	Bruges	June 1359 provisions extended to include Nuremberg merchants suffering any banking and exchange losses.	AG			De Roover 1948, 336.
BEL-1368	1368	Bruges	Sconebergh innkeeper default: city reimburses creditors with 520 pounds groot.	AG			Greve 1996, 7- 10.
IT-1370	1370s	Venice	Selective assistance to bank depositors: at Baffo-Trevisan Bank, authorities cover 35% of deposit liabilities outstanding (ca. 7,000 ducats). Other systemic banks not covered (Alvise Viario). Regulatory response: prohibitions for banks to speculate in commodities market, or to finance in silver, lead, fustian, saffran, and honey. Prohibitions for banks to act as a straw man ("tanxare") in commodity speculation.	AG, other			Mueller 1997, 140-154.
1T-1374	August 1374	Venice	Default of Zancani and Brothers: Consoli dei Mercanti (private sector body) takes over orderly liquidation, audit, and resolution of bank (total liabilities: 208,000 ducats).	RES	ASSOC	PRI-PRI	Mueller 1997, 151ff.

ES-1380	1380	Catalonia	Bank default wave in Barcelona, Girona, and Perpinan: Caus y Olivella Banks, Pascual y Esquerit, Ramon Madir, and Bartomeu Gari Banks default. Authorities reign in on FX speculation, i.e. by 1395 trading in florin prohibited.	ORL			Feliu 2000, 131.
BEL-1398	1398	Bruges	Van den Walle innkeeper default: city reimburses creditors with 107 pounds groot.	AG			Greve 1996, 7- 10.
BEL-1411	December 1411	Bruges	June 1359 provisions extended to include all Portuguese merchants suffering any banking and exchange losses.	AG			De Roover 1948, 336.
IT-1453	September 1453	Venice	Soranzo Bank suspension by city <i>Provveditori</i> — moratorium and various liquidity measures, including decree to force existing debtors to directly reimburse Bank, under penalty of 200 ducat fines.	AHEL, DPM			Ferrara ed. 1871, no. 12-15.
IT-1465	April 1465	Florence	Wave of bank defaults. Medici Bank provides 12,000fl emergency loan to Salviati Bank to prevent bankruptcy.	AHEL	F	PRI-PRI	De Roover 1963, 359f.
IT-1466	1466-1474	Naples	Bankruptcy of Di Gaeta Bank: King Ferrante of Naples guarantees deposits after failure. ⁱⁱ	AG			Silvestri 1953, 91.

IT-1478	1478	Florence	Medici Bank troubles: Lorenzo de Medici diverts 74,498fl in public <i>Monte</i> funds to prevent bankruptcy.	AHEL		De Roover 1963, 366f.
NL-1480	December 1480	Amsterdam	Death of Duke Charles the Bold triggers default wave of creditors and moneychangers across Burgundy. City of Amsterdam in response implements deposit guarantee for Hanse merchants of up to 6,000 crowns. Guarantee revoked 1486.	AG		De Roover 1948, 336.
FRA-1490	December 1490	Lyon	Bardi Bank default: King Charles VIII and Lorenzo de Medici reimburse individual depositors and lenders from state funds upon appeal. I.e. Etienne d'Andrea's 510 ecus advance.	AG, OLG		Pelicier (ed.,) 1905, no. DLXXXIX.
	February 1499	Venice	Government Revenue Office grants "surety" on 50,000 ducats of liquid and illiquid assets of Garzoni Bank, to help with restructuring. Additional 20,000 ducat loan and pledge of "other sums to be given in the future". ⁱⁱⁱ	AHEL, ASG		Ferrara ed. 1871, no. 136; Mueller 1997, 249.
IT-1499	May 1499	Venice	Signoria grants 10,000 ducat emergency loan to Lippomano Bank amid deposit run – but bank fails. Venetian authorities set up 320,000 ducat public-private "guarantee fund" for Venetian deposits, which restores confidence. Banks granted moratorium and put into 1-year restructuring/receivership: 92,000/285,000 ducats recovered, but both ultimately wound down.	AG, AHEL, DPM, RES	SPV	Lattes 1869, 16f.; Mueller 1997, 60, 230-241, 243.

IT-1514	January 1514	Sicily	Bank of Battista Lambardi collapses, with 70,000fl liabilities: authorities fear revolt from depositors and guarantee reimbursements of all deposits <2 ounces.	AG		Cusumano 1887, 292.
IT-1518	June 1518	Florence	Imminent default of Frescobaldi Bank: Cardinal Campeggio intervenes at Court in London (Cardinal Wolsey) to "protect" Frescobaldi from creditors; intervention successful, accord struck, default around 1530.	other		BL, Cotton Vitellius B/III, no. 221, f.127; Ehrenberg 1922, 280f.
GER-1529	June 1529	Augsburg	Hochstetter Bank default (40,000fl losses) after attempt to corner world mercury market. Augsburg authorities confiscate all bank and personal property of partners, organize breakup and takeover by competitors.	BAIL, RES	PRI-PRI (partly)	Ehrenberg 1922, 215ff.; Roessner ed., 2012.
IT-1550	September 1550	Sicily	Bank of Antonio Xirotta fails: Senate issues decree ordering all bank debtors to immediately pay back debts.	other		Cusumano 1887, 295.
IT-1552	July 1552	Naples	Ravaschieri Bank on brink of default: viceroy of Naples passes decree that bans capital exports until August 1552, and enacts debt moratorium on bills of exchange.	DPM, other		Delumeau 1959, II, 906.
ES-1553	1553	Sevilla	Lizzarazas Bank difficulties: private Sevillian banks provide 200,000 ducats in guarantees, but bank still fails.	OLG	PRI-PRI	Steele 1991, 199.
UK-1564	January 1564	England	First Thomas Lodge conglomerate bankruptcy: "great alarm" and fear of spread to "whole merchant community"; appeal to Lords of the Council is successful – GBP 600 payment moratorium until 1571 on City debts.	DPM		Sisson ed. 1933, 32ff.; Ramsey 1962, LVIf.

GER-1564	April 1564	Augsburg	Manlich merchant-bank default (uncovered liabilities: 39,500fl.): various interventions by city authorities to seize international assets of the company, and confiscate personal property.	BAIL	PRI-PRI	Seibold 1995, 108ff.
UK-1569	March 1569	England	Second Thomas Lodge conglomerate bankruptcy: Aldermen provide GBP 200 emergency loan and collateral.	AHEL		Sisson ed. 1933, 33f.
GER-1572	March 1572	Stettin	Major bankruptcy of Bankhaus Loitz (~2m Thaler liabilities): confiscation of goods and coordination of liquidation by Stettin city authorities.	BAIL, other		Papritz 1957.
	1573	Strassbourg	Fallout from Israel Minckel collapse: Mathieu and Isaac Wicker, Strassbourg financiers, seek help from Strassbourg Magistrate. Magistrate grants 7,000 livres emergency loan for four years. Wicker Bros. still default on 36,312 l. debts.	AHEL		Fuchs 1974, 123f.
	June 1574	Augsburg	Second bankruptcy of Manlich merchant-bankers: Augsburg City Council coordinates European-wide confiscation of assets of Manlichs and associates. Failure leads to creation of new bankruptcy code. Ca. 730,000fl total liabilities.	BAIL, ORL	PRI-PRI	Seibold 1995, 146ff.
ES-1576	March 1576	Seville	Espinosa and De Morga Banks fail in Seville: rival private banks help De Morga with guarantees via "fiador" guarantee system. Both banks still fail.	OLG	PRI-PRI	Steele 1991, 190f., 199.

IT-1576	July 1576	Venice	After bank run, Mint is ordered by Supreme Venetian Council to make 3-month emergency loan to Pisani-Tiepolo Bank of 65,000 ducats at 4%.	AHEL		Mueller 1997, 126f.; Ugolini 2017, 129.
IT-1583	November 1583	Bologna	Major Gandolfi Bank collapses with 103,000 lire in uncovered liabilities; local authorities refuse to rescue Bank, and seize all Gandolfi assets, incl. personal assets.	BAIL	PRI-PR	Carboni and Fornasari 2013, 115f.
IT-1584	1584	Venice	Major merchant-broker Andrea Dell'Oste defaults, with debts amount to 15% of total PT bank assets; run of depositors of Pisani-Tiepolo Bank ensues. Venetian state solicits transfer of deposits to new public state bank, <i>Banco della Piazza di Rialto</i> (est. April 1587).	AG, RES		Pullan 1973, 384- 386.
IT-1588	February 1588	Rome	Panzani Bank defaults "with considerable liabilities": Grand Duke (Juan de Zuniga) sends "more than 100,000 ecus" in early repayment of debts to stimulate business.	AHEL		Delumeau 1959, II, 899;
IT-1595	October 1595	Bologna	Lucchini and Scappi banks on the brink of collapse: authorities float special 500,000 monte fund to "prevent financial meltdown"; guarantee recapitalization, debt restructuring, and cover interest payments for banks.	AHEL, DPM		Carboni and Fornasari 2013, 116f.
IT-1597	February 1597	Tuscany	Spanish sovereign default triggers severe bank crisis in Northern Italy, high-profile defaults at fairs of Lisbon and Plaisance (Carnesecchi Bank), and in Milan. Grand Duke of Tuscany distributes 500,000 ecus among bank-merchant community to ease strains.	BBEL		Delumeau 1959, II, 902f.

	May 1597	Genoa	Genoese Senate grants debt moratorium to August 31 amid ongoing bank crisis: 20 banks accept help.	DPM		Delumeau 1959, II, 903.
GER-1603	November 1603	Nuremberg	Looming default of Werdemann Bank: Imperial Chamber intervenes to unfreeze various assets in Baden, to provide emergency liquidity. Ca. 93,500fl. Volume.	AHEL		Peters 2011, 243ff.
GER-1613	December 1613	Augsburg	Looming default of Welser merchant-bank. Augsburg city council grants 14,000fl emergency loan in Dec-1613; in Jan-1614 maturity is prolonged by council; but council then rejects further requests for emergency lending.	AHEL		Mueller 1903, 217ff.
IT-1622	March 1622	Naples	Looming wave of bank defaults after mint reform and conversion requests. 4.4M ducats in bank losses. Viceroy Zapato issues moratorium, limiting creditor payments. Bail-in and bail-out measures between Nov. 1622 – Apr, 1623. Banco del Popolo is nationalized ("municipalized"), with two-thirds of bank losses eventually paid back.	AHCI, BAIL, DPM	PRI-PRI (partly) STOW	Constabile and Nappi 2018, 41ff.
GER-1631	1631	Augsburg	Looming Fugger default on ca. 550,000 ducats: King Philip IV grants debt moratorium for one year, renewed in 1632, to protect Fugggers from creditors.	DPM		Ehrenberg 1922, 185f.
GER-1635	January 1635	Nuremberg	Bankruptcy of Nuremberg Bancho Publico: joint public- private restructuring, including mandatory 6-month interest-free deposits required from merchant community. City commits to early repayment of 80,000fl. debts.	AHEL, ORL, RES	PRI-PRI (partly)	Denzel 2012, 128f.

IT-1639	November 1639	Genoa	Bankruptcy of Moneglia Bros. on 242,000 Ecus: Genoese Senate issues debt moratorium and decides to cover interest payments to creditors until settlement is reached.	AHEL, DPM		Marsilio 2018, 40f.
IT-1648	May 1648	Venice	Bancogiro suspends convertibility amid war outbreak with Candia. Resumes convertibility 1666.	SBH	STOW	Roberds and Velde 2016, 338.
ES-1652	July 1652	Spain	Spanish sovereign debt suspension, heavy bank stress: Crown agrees to partly reimburse depositors whose deposits were used for sovereign loans – others are largely wiped out. Banks receive permit to repay creditors in depreciated currency (vellon).	AG, ORL		Dominguez Ortiz 1960, 104.
UK-1665	July 1665	England	Run on Edward Backwell's bank. Navy Treasury provides GBP 4,000 in cash emergency liquidity to satisfy creditors.	AHEL		Clark 1938, 48f.
UK-1667	June 1667	England	"Financial panic", run on goldsmith bankers in London following Raid on the Medway: Charles II issues statement that "he will make good all their assignments"; various goldsmiths who suspend convertibility are indemnified by additional royal decree.	ASG, DPM		CSP, Charles II, Vol. 7 – SP 29//207, fol. 128; Milevsky 2017, 128ff.
SWE-1668	September 1668	Sweden	Collapse of Palmstruch Bank: purchase by Riksdag and reorganization forms public central bank, Riksbank. Total covered losses put at 200,000 dalers specie.	AHCI, RES		Flux 1910, 15; Brisman 1918.
NL-1672	June 1672	Holland	Massive capital flight, bank runs amid French advance. Bank of Amsterdam saved by "prompt action of the municipal government". Guilders 890,000 est.	AHEL		Barbour 1963, 57ff.; Quinn and

						Roberds 2014, appendix, 16.
GER-1673	June 1673	Hamburg	Senate restricts private withdrawals at Bank of Hamburg to 100 Taler to protect liquidity amid financial instability.	SBH		Sieveking 1934, 134f.
IT-1691	1691	Venice	Senate orders Bancogiro (de facto central bank) to suspend convertibility amid war outbreak (attacks on Morea, Candia).	SBH	STOW	Dunbar 1892, 332.
ES-1691	1691	Naples	Looming default of Banco dello Spirito Santo after embezzlement, accounting fraud: authorities grant two week bank holiday and emergency aid from Banco della Pieta to resume operations.	AHEL, SBH	STOW	Avallone 2013, 102f.; Avallone 2017, 9ff.
	May 1696	United Kingdom	Goldsmiths run on newly-established Bank of England. Government sanctions temporary limits to deposit withdrawals.	SBH		Gup 2003, 6.
UK-1696	June 1696	Scotland	Run on Bank of Scotland, instigated by Darien Company, and general financial uncertainty. No intervention reported in Checkland ("crisis dissipates").	NO/I		Checkland 1975, 33ff.
	July 1696	United Kingdom	Additional bill prohibiting protestation of Bank bills for 14 days; "rapid distribution" of newly issued Exchequer bills across country to substitute scarce metallic currency.	MLA, ORL		Acres 1931, 72.

ES-1701	December 1701	Naples	Emergency lending by Banco dei Poveri, Banco della Pieta, and Banco di San Giacomo to tumbling Annunziata Bank – 262,000 ducats granted.	AHEL	PRI-PRI ^v	Demarco and Nappi eds. 1985, 19; Demarco 2000, V, 31ff. Ferrandino 2009, 87.
	1702	Naples	Default of Annunziata Bank (largest bank in Naples by market share) amid outbreak of War of Spanish Succession: Viceroy Medina Coeli orders remaining assets to be transferred to Banco dei Poveri, after persuasion attempts do not stop broader bank runs.	MC, other		Balletta, Balletta, and Nappi 2018, 100f.
GER-1703	April 1703	Austria, Germany	Default of Oppenheimer bank: Leipzig authorities extend Easter trade fair by eight days to support emergency efforts; Austrian authorities decide to establish Wiener Stadtbank to support market liquidity post-default (actually incepted: 1706).	ORL, RES		Bidermann 1859, 352ff.
FRA-1704	September 1704	France	Severe liquidity crunch after money debasements, run on Caisse d'Escompte (CdE): royal order suspends CdE until April 1705, recaps bank via new tax assignments.	SBH, AHCI	STOW	Felix 2018, 59.
UK-1704	December 1704	Scotland	Run on Bank of Scotland, suspension on Dec. 18: Scottish government inspects books and decides to guarantee note issuance and interest payments until liquidity crisis abates (GBP 50,847). Bank reopens May 1705.	OLG		Checkland 1975, 38f.

UK-1707	1707	United Kingdom	Run on Bank of England upon rumors of French invasion. Queen Anne and Godolphin/Marlborough government provide emergency loans.	AHEL		STOW	Gup 2003, 6.
AT-1708	February 1708	Austria	Liquidity crisis at Wiener Stadtbank, looming default. Emergency decree in Jun-1708 enables liquidity assistance (333,000fl advanced by end-1710); decree by end 1708 prolongs guaranteed assigned income by three years ("Gefaelle", ca. 1.55M fl.).	AHEL, OLG		STOW	Fuchs 1998, 53ff.
SWE-1709	1709	Sweden	Riksbank's loan bank freezes deposits after run on bank.	SBH		STOW	Fregert 2014, 361.
FRA-1709	April 1709	France	Banking crisis in Paris, Lyon, and Geneva, amid weakening of King's credit, and default of Barnard & Nicolas. Various bankers receive provincial assignment letters and public rentes as liquidity assistance. Barnard himself receives total of 24.3M livres in assignments and aid in "one of the most costly bail-outs in history" (Rowlands 2015, 159).	AHEL			Luethy 1959, I, 222ff.; Flandreau et al. 2009, 189; Rowlands 2015, 158ff.
UK-1711	January 1711	United Kingdom	Heavy discounting of public and private securities amid fear of wider financial crisis. BoE receives GBP 45,000 from Treasury to buy exchequer bills at face value.	MLA	Market		Scott 1912, 384ff.
	1711	United Kingdom	"A particular person', being a large discounter with the Bank, whose possible failure would 'occasion more disorders in General Credit', receives GBP 20,000 for six months, on 'sufficient security'.	AHEL			Bindseil 2019, 141.

SZ-1712	1712	Switzerland	Solothurn magistrate extends 20,000Fr. loan to Facio banking house amid bankruptcy wave.	AHEL		Buechi 1916, 81.
UK-1715	September 1715	Scotland	Bank runs during panic of Jacobite rising. Bank of Scotland suspends convertibility, resuming payments by May 1716.	SBH		Checkland 1975, 47.
FRA-1715	September 1715	France	Standstill on French government debt, financial crisis. Not clear if specific interventions occurred.	NO/I		Flandreau et al. 2009, 189.
ES-1714	September 1714	Spain	Bourbon troops invade Barcelona: (partial) bank suspensions, Old Bank of Deposit of Barcelona is forced to suspend and liquidated.	SBH, RES		Usher 1943, 501.
ES-1/14	1715	Spain	Banking crisis coinciding with end of War of Succession: additional key public banks, including Taula di Canvi di Cervera fail. No evidence of interventions.	NO/I		Esteve 1991, 976f.
IT-1717	June 1717	Venice	Senate orders Bancogiro (de facto central bank) to suspend convertibility amid war outbreak (to 1739).	SBH	STOW	Dunbar 1892, 332.
UK-1720	September 1720	United Kingdom	South Sea Bubble causes some bank failures (i.e. Sword Blade Company): BoE "lends freely, very freely on its own stock", draws down vault reserves by 25%, assumes parts of South Sea portfolio. GBP 3.7M total capital raise, advances to South Sea suggested by Clapham (1958, 83ff.).	BBEL		Clapham 1958, 1, 84ff., 228-230.
SZ-1720	September 1720	Switzerland	South Sea crash spills over to Berne: Malacrida & Comp. Bank of Berne applies for public help, but is rejected (at	AG, NO/I		Landmann 1903, 31ff.

			least 893,000 Taler liabilities). Berne authorities partly reimburse private creditors from liquidation receipts.				
FRA-1721	January 1721	France	Technically, French Indies Company is the French bank of issue (minority state-owned) and is bailed out by Louis XV, who assumes 1M Livres debt at par Jan-1721. Restructuring and new share issuance via "Operation of the Visa".	OLG, RES	SPV (partly)		Velde 2018, 126ff.
AT-1727	June 1727	Austria	Wiener Stadtbank on the brink of collapse: Viennese city council and Upper Austrian Estates provide emergency liquidity (at least 100,000fl).	AHEL		STOW	Mensi 1890, 598f.; Fuchs 1998, 76f.
IT-1739	May 1739	Venice	Venetian Senate recapitalizes Bancogiro in order to end long suspension of convertibility, with 250,000 Ducats.	АНСІ		STOW	Rota 1874, 116; Dunbar 1892, 333f.
UK-1745	September 1745	United Kingdom	Bank runs amid advance of the Highlanders. BoE convenes meeting between city merchants, who sign declaration to accept BoE notes in lieu of all payments due. Temporarily, the Bank "block[s] up the doors with its own friends to gain time". Scottish banks close temporarily.	ORL, SBH		PRI-PRI	Westminster Review 1847, 245; Culloch 1858, 456; Checkland 1975, 72f.
SWE-1745	1745	Sweden	Bank run forces Riksbank's exchange bank to make deposits and notes inconvertible.	SBH		STOW	Fregert 2014, 349.

DK-1745	October 1745	Denmark	King declares suspension of convertibility for Kurantbank (de facto privately-owned central bank), amid financial volatility. In effect till spring 1747.	SBH		Rasmussen 1955, 277; Maercher 2010, 130f.
IT-1746	September 1746	Genoa	Austrian occupation of Genoa during War of the Austrian Succession: Casa di San Giorgio suspends payments indefinitely.	SBH	STOW	Roberds and Velde 2016, 329.
DK-1757	October 1757	Denmark	Suspension of convertibility at Kurantbank (almost 2M rix-dollars liabilities) with royal assent, given Seven Years War instability. Only fully revoked by 1845.	SBH		Rasmussen 1955, 279; Maercher 2010, 131.
FRA-1759	November 1759	France	Major financial crisis ensuing after de facto bankruptcy of French state: leading banks including <i>Beaujon</i> , <i>Goossens & Cie</i> . fail. Government declares bank debt moratorium.	DPM		Bosher 1986, 127ff.
IRL-1760	April 1760	Ireland	Banking crisis: La Touche and Son, Gleadowe & Co., and Finlay & Co. are deemed "solvent" and receive GBP 50,000 Treasury emergency aid (as indemnification), with notes made partial legal tender.	OLG, ORL		Hall 1949, 11.
UK-1762	June 1762	Scotland	"Major liquidity crisis" in Scotland as English funds are recalled from Scotland in context of Seven Years War. Scottish banks activate "optional clauses" in note issuance, preventing convertibility for six months.	SBH	PRI-PRI	Checkland 1975, 108f.
NL-1763	August 1763	Holland	Liquidity crisis in aftermath of Seven Years War among leveraged exchange dealers. Amsterdam public bank	BBEL, CRL		Quinn and Roberds 2015;

			provides (limited) additional secured loans, and widens range of acceptable collateral.				Ugolini 2017, 130.
GER-1763	August 1763	Prussia	Spillover from Dutch/British crises: King Frederick bails out important merchant-banker Gotzkowsky, via 500,000 gulden emergency loan and inflated asset purchase.	AHEL, BBAM			Henderson 1962, 99.
	August 1763	Hamburg	Spillover from Amsterdam crisis: after 84 merchant and merchant bank failures, Hamburg Senate establishes 1M Mark lending fund for six months, to lend against durable goods.	BBEL	SPV		Soetbeer 1866, 39.
FRA-1770	February 1770	France	Severe financial crisis: some major royal financiers go bankrupt, others (Le Maitre, Baudard de Vaudesir, Bouret de Vezelay) apply for emergency help to Treasury.	AHEL			De la Cour 1788, 62f.; Bosher 1972, 25f.
IRL-1770	December 1770	Ireland	Looming panic after downfall of George Colbrook & Co.: Lord Lieutenant of Ireland, merchants, and private banks declare full acceptance of all major bank notes as cash in joint public announcement.	ORL		PRI-PRI (partly)	Gilbart 1836, 15f.; Hall 1949, 13.
UK-1772	June 1772	England	BoE "discounts heavily" and has to hire additional clerks. Government loan of GBP 1.4M to East India Company. Lovell (1957, 9) suggests ca. GBP 580,000 extra BoE discounting.	BBEL, MLA			Lovell 1957; Brunnermeier and Schnabel 2016; Kosmetatos 2019.

	June 1772	Scotland	Failure of Ayr Bank, wave of subsequent failures in Edinburgh. Scottish de facto public banks offer emergency lending on good collateral, including Ayr notes. At least GBP 487,000 in public/private emergency capital raising.	BBEL		PRI-PRI (partly)	Clapham 1958, I, 245ff; Checkland 1975, 131f.
NL-1773	January 1773	Holland	Bank crisis: establishment of <i>Fonds tot Maintien van het Publiek Crediet</i> , jointly administered by Nederlandsche Bank and City of Amsterdam to lend freely against collateral. Fonds liquidated by September. 500,000fl total advances.	BBEL	SPV		De Jong 1934, 332.
DK-1773	March 1773	Denmark	Kurantbank fully nationalized by official purchase of all equity with state bonds.	АНСІ			Rasmussen 1955, 284f.; Maercher 2010, 132.
FRA-1774	May 1774	France	Severe financial crisis in Marseilles: King Louis XVI grants debt moratoria to several bankers (i.e. 6 months to Pierre Verdilhon in late May 1774).	DPM			Emmanuelli 1979, 86ff.
UK-1778	August 1778	United Kingdom	Controversies over existence of actual panic: Lovell (1957, 15): "not a real panic". Joslin (1960): "panic". But clear uptick in BoE discounting ca. GBP 1.2M.	BBEL			Lovell 1957, 15; Joslin 1960, 173;
NL-1781	1781	Holland	Establishment of City Chamber of Loans during crisis, providing mutual liquidity assistance among private banks. Wisselbank provides backstop. By 1795, 1.2M guilders on loan. Moratorium for Dutch East India debt.	BBEL, DPM	SPV (partly)	PRI-PRI (partly)	Van der Borght 1896; De Jong 1934, 323; Van der Kroef 1948, 132; Ugolini 2017, 130.

FRA-1783	October 1783	France	Run on <i>Caisse d'Escompte</i> , Paris banking crisis. Official decree allows Caisse to suspend convertibility until January 1 st . Some key financiers in difficulties are supported by Treasury (i.e. E-N. Landry by 1784).	AHEL, SBH		Bigo 1927, 76- 94; Bosher 1970, 192; Flandreau et al. 2009, 189.
ES-1784	November 1784	Spain	Rumors of impending default of Magon Le Fer Bank, early-stage bank runs in Cadiz: Magon decides to repay all outstanding credit liabilities immediately to demonstrate liquidity. Bank runs ease afterwards.	other	PRI-PRI	Gazeta Madrid, November 19, 1784, 963.
RUS-1787	1787	Russia	Looming bankruptcy of Russian court banker Richard Sutherland after surging bad debts: Hope & Co. of Amsterdam provides "substantial credit" to bail firm out.vi	AHEL	PRI-PRI	Buist 1974, 94f.; Munro 1989, 329.
FRA-1787	January 1787	France	Five major bankruptcies of financiers: inc. JF. Harvoin, Claude Baudard, LRM. de Sainscy, Megret de Serilly; Royal Treasury under Calonne underwrites various liabilities, incl. Harvoin's (at least 600,000 LT est.).	AHEL		Bosher 1970, 183ff.
UK-1788	March 1788	Scotland	Wave of bankruptcy among distillers provokes bank runs and threatens houses of William Forbes & Co. and Allan the Stewart: Royal Bank provides emergency assistance to the former.	AHEL	PRI-PRI	Checkland 1975, 217f.
FRA-1788	August 1788	France	Further instability at <i>Caisse d'Escompte</i> : Necker grants bank right to suspend payments if run occurs (run and suspension materializes September 1789). Bank notes made legal tender.	SBH, ORL		White 1995, 234ff.

US-1791	August 1791	United States	Bank Scrip Bubble: Alexander Hamilton authorizes USD 348,985 in open market Treasury purchases via BONY (face value USD 560,000), to stabilize bond markets.	MLA		Sylla, Wright, and Cowen 2009, 71f.
NL-1792	February 1792	Holland	City of Amsterdam grants loan to Bank of Amsterdam amid heavy deposit withdrawals.	AHEL		Van Dillen 1934, 114f.
US-1792	March 1792	United States	Alexander Hamilton instigates BONY (Bank of New York) to provide emergency liquidity along Bagehotian lines. Up to USD 1M authorized (ca. USD 250,000 actually spent).	BBEL		Sylla, Wright, and Cowen 2009, 77ff.
IRL-1793	January 1793	Ireland	Amid volatility, "young Bank of Ireland refuse[s] to discount any paper whatever" for months prior to March, given war fears.	SBH		Clapham 1958, I, 263.
SAF-1793	March 1793	South Africa	Financial crisis: Dutch authorities establish Cape Lombard Bank to provide collateralized emergency credit.	BBEL	SPV	Havemann and Fourie 2015, 12.
	April 1793	Scotland	Two de facto public banks (Royal Bank, Bank of Scotland) provide GBP 25,000 emergency loan to Sterling, Hunters & Co. amid wave of bank failures.	AHEL		Checkland 1975, 218.
UK-1793	May 1793	United Kingdom	Sharp rise in bank failures after French declaration of war: Bank of England gives selective assistance (i.e. to Lord Mayor of London partnership); by May, Pitt adopts a large- scale issuance of GBP 5M commercial exchequer bills to create discountable assets, at recommendation of Bank directors. One-fifth allocated for Scotland.	AHEL, BBEL		Lovell 1957; Clapham 1958, I, 262ff; Checkland 1975, 219.

			Lovell (1957, 15) suggests ca. GBP 3.3M extra discounting by Bank of England in market accommodation.				
IT-1796	September 1796	Naples	Bank runs ("depositor panic") connected to French invasions: Ferdinand IV decrees that seven public banks of Naples freeze existing deposits. Withdrawals only on the basis of newly accepted (post-decree) deposits.	SBH		STOW	Demarco 2000, IV.I, 240f.
UK-1797	February 1797	United Kingdom	BoE stops gold conversion on 25 February 1797, but lends freely on government securities. Meeting between "hundreds" of bankers and merchants at Mansion House establishing BoE notes as circulating medium instead of gold. BoE issues high volumes of low-denomination notes to replace guinea demand. "Restriction period" lasts until 1821.	BBEL, ORL, SBH	Market (partly)		Feaveryear 1931, 170ff.
	February 1797	Scotland	Scottish banks under "grave threat"; at their own initiative, banks decide to suspend specie convertibility, even though suspensions illegal under Scottish law.	SBH		PRI-PRI	Checkland 1975, 220f.
IRL-1797	March 1797	Ireland	Bank of Ireland restriction along BoE lines enacted on March 2, at the order of the Privy Council.	SBH			Hall 1949, 65.
IT-1798	January 1798	Venice	Bancogiro suspends payments, which are partially lifted August 1799. Closed for good October 1800.	SBH		STOW	Roberds and Velde 2016, 339.
IT-1798	February 1798	Rome	Rome's banks are closed amid capital flight surrounding French military intervention, including <i>Banco di Santo Spirito</i> . Significant restructuring of liabilities, including	BAIL, DPM, RES, SBH		STOW (partly)	De Matteo 2001, 50ff.

			extinction of coupons and debts, prior to regular resumption in July 1814.				
GER-1798	May 1798	Hamburg	Collapse of Dorner Bank, following death of founder. Fears of panic: eight Hamburg banks establish 1M Mark banco guarantee fund to keep Dorner in existence.	BG	SPV	PRI-PRI	Buist 1974, 173.
	September 1799	Hamburg	Wave of bankruptcies among acceptance houses and merchant-bankers, including <i>Milow & Henckel</i> , and <i>De Dobbeler & Hesse</i> : Hamburg Senate establishes private rescue fund in September 1799, but "measure comes too late" to stem panic. London merchants organize private GBP 1.5M emergency loan, but ship sinks in October.	BBEL	SPV (partly)	PRI-PRI (partly)	Beerbuehl 2007, 362ff.
NL-1802	1802	Holland	City of Amsterdam and Batavian Republic jointly recapitalize Bank of Amsterdam via forced loan. De facto, restructuring as Bank of Netherlands from 1815, with 1M guilders new capital injection by government.	AHCI, AHEL, RES			Van der Borght 1896; Van Dillen 1934, 115.
	1802	Holland	Cohen Bank of Amsterdam on brink of collapse: Prussian Seehandlung (state bank) negotiates debt moratorium on liabilities on Gulden 2M credit, Tomasachi & Co. guarantees part of liabilities (Gulden 400,000).	DPM, OLG		PRI-PRI (partly)	Schnee 1953, 198f.
FRA-1802	April 1803	France	Forced merger of major commercial bank, <i>Caisse d'Escompte du Commerce</i> , with Banque de France, to centralize French note issuance. Liesse (1909, 26): "slight panic" as pretext for government.	RES			Liesse 1909, 26f.; Reinhart/Rogoff

UK-1803	August 1803	Scotland	Bank runs across country given French invasion rumors: petitions by Scottish banks to be allowed suspension of convertibility (denied). Royal Bank suspends silver conversion. No government interventions.	SBH	PRI-PRI	Checkland 1975, 224.
FRA-1805	September 1805	France	Run on Banque de France after rumors that French silver reserves exhausted by Napoleon's wars. Banque forced into partial suspension. Napoleon de facto nationalizes Banque de France operations, recaps with Fr. 45M private capital. Treasury provides bank with "some" extra specie.	AHCI, AHEL, RES, SBH	PRI-PRI (partly)	Des Essars 1896, 59; Liesse 1909, 29f.; Reinhart/Rogoff
FIN-1808	February 1808	Finland	Run on banks as Russia invades Finland: Swedish Bank of the Estates provides emergency assistance to Turku Discount Office, but quasi-central bank liquidated later.	AHEL	STOW	Kuusterae and Tarkka 2011, I, 60.
	October 1810	Prussia	By decree, business of Royal Bank of Prussia is suspended given war outbreak and default wave. Interest payments for existing bank obligations covered by Treasury.	AHEL, SBH	STOW	Poschinger 1878, I, 215ff.
GER-1810	October 1810	Prussia	After bankruptcy of Seehandlung Bank in October 1806, edict of October 1810 recapitalizes Bank with Taler 15.7M (forced conversion of private liabilities), nationalizing it.	AHCI, BAIL		Schrader 1911, 6f.
FRA-1810	December 1810	France	Wave of industrial and bank failures from Sep1810: ad hoc assistance, including Francs 1.5M loan to Bank of Tourton & Ravel, granted in Dec. by Napoleon personally.	AHEL		Darmstaedter 1904, 605f.
UK-1810	April 1811	United Kingdom	Volatility related to tightening of Allies' blockade and Napoleonic Continental System; Brickwood & Co. fails with GBP 600,000 liabilities in July 1810; GBP 600,000 in	MLA		Conant 1915, 615f.; Checkland 1975, 225;

			exchequer bonds extended to merchants upon good security by Treasury.			Ishhizu 2013; Reinhart/Rogoff
SWE-1811	1811-1814	Sweden	Kärrlander (2013, 174) indicates pre-1815 lending of last resort to Stockholm discount banks by Treasury, but exact timing unclear.	AHEL		Reinhart/Rogoff; Kärrlander 2013, 174.
DK-1813	January 1813	Denmark	State bankruptcy 1813. End of <i>Specie Bank/Depositokasse</i> , founding of Rigsbank with centralized note-issuance. Some quasi state banks are closed, incl. Schleswig-Holstein Specie Bank.	BAIL, other, RES		Maercher 2010, 135f.; Reinhart/Rogoff
FRA-1814	April 1814	France	Banque de France raises Fr. 6M emergency loan from private bankers amid panic, to prevent full suspension.	SBH, AHEL	PRI-PRI (partly)	Liesse 1909, 41f.
	May 1814	Norway	Amid monetary and banking chaos, Rigsbanken's Norwegian branch issues Riksbank Dollar 14M, guaranteed by National Assembly ("Eidsvollsgarantien").	MLA		Eitrheim 2005, 4.
NOR-1814	June 1816	Norway	1814 crisis unveils deep problems over monetary centralization, LLR functions: longer-term remedy by founding of Bank of Norway in 1816 – incl. centralization of note issuance.	other		Grytten and Hunnes 2010, 10; Reinhart/Rogoff
US-1814	April 1814	United States	Widespread bank runs in New Orleans (Planter's Bank, Bank of New Orleans): specie suspension from bank side.	SBH		Nolte 1854, 184ff.

	August 1814	United States	Heavy bank runs across East Coast after British set Washington on fire: invoking New Orleans interventions, general specie suspension announced.	SBH	STOW	Adams 1978, 45ff.; Reinhart/Rogoff
ES-1814	1814-1817	Spain	Suspension of Bank of San Carlos during French occupation; actual restructuring occurs 1829 (s.b.).	SBH		Reinhart/Rogoff
UK-1815	1815	United Kingdom	No interventions reported in Conant (1915) or Clapham (1958).	NO/I		Reinhart/Rogoff
GER-1815	April 1815	Prussia	Prussia guarantees deposits in Royal Bank of Prussia, and other liabilities, upon re-opening of Bank and continued financial volatility. Total assets ca. 17.3M Thaler.	BG	STOW	Poschinger 1878, I, 217ff.
FRA-1815	June 1815	France	After defeat at Battle of Waterloo, severe volatility on Parisian markets. French Treasury "loans freely" to speculators, with emergency loans.	MLA		Conant 1915, 619.
SWE-1815	November 1815	Sweden	New bank runs in Stockholm, centered on Malmoe Diskont and Gothenburg Diskont: Treasury grants 700,000 daler emergency loan to Malmoe to meet redemptions. Further 500,000 daler loan granted in Sep. 1817, after which bank is liquidated.	AHEL, RES		Kärrlander 2013,168ff.
FRA-1818	1818	France	Banque de France engages in emergency discounting during financial crisis, with Leclercq (2010, 267) suggesting 0.21% of GDP provided.	BBEL		Leclercq 2010, 267.

NL-1819	1819-1829	Netherlands	No interventions reported in Conant (1915, 287ff.) and others.	NO/I		Reinhart/Rogoff
	October 1819	United States	Liquidity measures to aid Bank of the United States: including de facto US\$ 1.8M Treasury loan on Louisiana stock. Aid from Sinking Fund Commission and 3-year payment moratorium for BUS creditors.	AHEL, DPM	STOW (de facto)	Browning 2019, 168ff.
US-1818	January 1820	United States	Bank of Kentucky notes de facto declared legal tender, Bank of Kentucky issues US\$ 768,000 in "own relief effort" and suspends specie payments. Kentucky independent bank law repealed: 40 banks forced to close amid banking volatility.	RES, SBH		Sumner 1896, 122; Royalty 1979, 94.
	February 1820	United States	Charters of five Pennsylvania banks are declared void.	RES		Sumner 1896, 112.
IRL-1820	May 1820	Ireland	Severe banking panic throughout Cork, Limerick, Dublin, Belfast. Lord Lieutenant approves up to GBP 500,000 in emergency loans for merchant and bank concerns: eventual bank aid limited to GBP 80,000 loan to Cork-based Leslie & Co. Select banks receive accommodation from Bank of Ireland upon good bills or gvt. stock.	AHEL		Hall 1949, 130- 133.
US-1818	July 1820	United States	Establishment of Tennessee State loan office amid banking defaults to provide general liquidity, up to USD 1.75M note issue.	BBEL	STOW	Moore and Foster 1923, 453f.; Rothbard 1962, 125ff.; Browning 2019, 259f.

	November 1820	United States	Kentucky senate establishes state-owned Bank of the Commonwealth, up to USD 3M note issue granted.	ORL			Rothbard 1962, 136f.; Browning 2019, 261.
	February 1821	United States	State Bank of Illinois established via takeover of private Bank of Illinois, to provide general liquidity after bank closures, up to USD 300,000.	BBEL, RES		STOW	Rothbard 1962, 133f.; Browning 2019, 259f.
	June 1821	United States	Missouri sets up state loan office, authorized to issue USD 300,000 to ease money and bank strain.	AHEL	Market (partly)		Rothbard 1962, 118f.
BRL-1821	March 1821	Brazil	Looming default of Banco do Brazil: government decree assumes all bank liabilities as public debt, against guarantee for diamond deliveries. Later repudiated.	BG			Cardoso 2010, 173f.
UK-1825	December 1825	United Kingdom	Crisis of country banks. BoE restrictive on collateral, raises rates in Dec-1825, providing some general emergency liquidity through advance window in 1Q-1826 – after commercial defaults have already peaked. Selected extra BoE liquidity assistance for banks, including GBP 400,000 for Peter Pole. Ca. GBP 4M in total lending. Ackrill and Hannah (2001, 30f.) suggest LLR extensions among Quaker banking community.	BBEL		PRI-PRI (partly)	Neal 1998; Ackrill and Hannah 2001, 30f.; Reinhart/Rogoff; Anson et al 2017.
AUS-1826	May 1826	Australia	Bank of New South Wales receives pounds 20,000 government loan after troubles. Repaid by 1827.	AHEL			Fitz-Gibbon and Gizycki 2001, 11.

	December 1828	Australia	Bank of New South Wales applies for further pounds 15,000 government loan, which is granted.	AHEL			HRA, I, Vol. 14, 549; Fitz-Gibbon and Gizycki 2001, 12f.
PT-1828	1828	Portugal	Banco do Lisboa suspension. No government intervention reported in Conant (1915) or Reis (1994).	NO/I			Reis 1994, 821; Reinhart/Rogoff
US-1829	April 1829	United States	Establishment of New York "Safety Fund" to co-insure noteholders among member banks. Places limits on total note issuance (200% of paid-in capital). Establishment of quarterly member bank inspection & audit mechanism.	OLG, ST	SPV (partly)	PRI-PRI	Bodenhorn 2002, chapter 7.
ES-1829	July 1829	Spain	Collapse of Bank of San Carlos: government offers restructuring and Reales 40M in capital, in exchange for write-down of old state liabilities. Rebranded as "Bank of San Fernando".	AHEL, BAIL		PRI-PRI (partly)	Reinhart/Rogoff; Martin-Acena 2018, 174f.
FR-1830	July 1830	France	State provides FRF 30M for "relief of houses in difficulties" after outbreak of Revolutionary crisis. Partly channeled through new "Discount Bureau" at BdF.	BBEL	Industry (partly)		Des Essars 1896, 62.
IRL-1831	January 1831	Ireland	Banking crisis, especially affecting Cork and Waterford. Bank of Ireland unsuccessful in containing spread. Merchant community in Waterford jointly declares to fully accept private bank notes, containing crisis.	ORL		PRI-PRI	Hall 1949, 152f.

GER-1832	December 1832	Prussia	350,000 Taler emergency loan by Prussian authorities to Ritterschaftliche Privatbank Stettin. Further 125,000 loan in Feb. 1833.	AHEL		Poschinger 1878, I, 249.
	November 1833	United States	Bank runs and suspensions in various states, including NY, Pennsylvania, Georgia, New Jersey, Virginia.	SBH		Jalil 2015, A-4.
US-1833	Spring 1834	United States	Run on Baltimore banks, "local monetary panic": Alexander Brown declares publicly full support for solvent banks, assists Union Bank of Maryland in search for funds.	BBEL	PRI-PRI	Perkins 1975, 31.
IRL-1836	November 1836	Ireland	Agricultural and Commercial Bank crash. Bank of Ireland advances ca. GBP 500,000 in emergency funds to Agricultural itself and other banks. Liberal discounting against private bills and government stock.	BBEL		Hall 1949, 160ff.; O Grada 2010; Reinhart/Rogoff
UK-1837	December 1836	United Kingdom	Northern and Central Bank of Manchester close to default: Bank of England grants GBP 1.37M emergency assistance, upon condition that bank is gradually wound down.	AHEL		Hunt's Magazine, 1850, VI, 607f.
CAD-1837	July 1837	Canada	Per legislative act in July, banks ordered to suspend convertibility beyond value of own capital stock until 1839, amid runs in Canada and New York. Lower Canada banks suspend at own initiative in May.	SBH		Redish 1983, 406ff.; Reinhart/Rogoff
US-1837	March 1837	United States	Indiana State Bank Insurance Fund suspends convertibility; bank runs and suspensions of specie payments in New York, New Orleans.	SBH	PRI-PRI	Calomiris 1990, 287; Jalil 2015, A-5.

UK-1837	April 1837	United Kingdom	Bank of England bailout of Wildes & Co., which liquidates; Other banks receive liquidity assistance without usual collateral requirements (Wilson & Co.; Wiggins & Co.).	BBEL, CRL, RES			Lepler 2013, 171ff.; Reinhart/Rogoff
SZ-1838	1838	Switzerland	Wider banking crisis engulfs Berne Kantonalbank: state more than doubles deposits at bank to ease liquidity squeeze.	AHEL		STOW	Leuenberger 1912, 33.
BEL-1838	January 1839	Belgium	Bank of Belgium on verge of collapse, suspends payments. January 1839 government credit of 4M Bel. Francs to meet note and deposit redemptions.	AG, AHEL, SBH		STOW (part)	Conant 1910, 14; Reinhart/Rogoff
IRL-1839	February 1839	Ireland	Run on Provincial Bank: Bank of Ireland grants emergency assistance, including GBP 150,000 to Provincial, GBP 80,000 to National Bank, GBP 10,000 to Royal Bank. Further GBP 25,000 aid in Dec. 1839.	AHEL			Hall 1949, 170f.
	October 1839	United States	Specie payment suspensions at Unites States Bank of Philadelphia, followed by suspensions in U.S. West and South, including Indiana.	SBH		PRI-PRI	Hammond 1957, 511; Calomiris 1990, 287.
US-1839	February 1840	United States	New York "Safety Fund" intervenes in City Bank of Buffalo failure, reimbursing creditors and noteholders.	OLG	SPV ASSOC	PRI-PRI	Bodenhorn 1996, 24f.
	November 1841	United States	Further bank failures and recapitalization of New York "Safety Fund". By October 1842 Fund "effectively	OLG	SPV (partly)	PRI-PRI	Bodenhorn 1996, 24f.

			bankrupt". Over 1840-2 Safety Fund outlays ca. US\$ 2.571M, see Bodenhorn (1996, 25).		ASSOC		
	February 1842	United States	New runs on banks in Pennsylvania, including on Moyamensing Bank. Private banks form "league" to provide mutual liquidity (unclear if actual payments occurred).	AHEL	ASSOC	PRI-PRI	New York Herald, February 2, 1842.
BEL-1842	1842	Belgium	Bank of Belgium temporarily closes all branches except Antwerp to preserve liquidity, government approves.	SBH			Conant 1910, 15; Reinhart/Rogoff
GER-1842	May 1842	Hamburg	Major Fire of Hamburg threatens survival of numerous merchant and banking houses. Bank of Hamburg restricted in LLR provision. Private banker Salomon Heine steps in to offer full bill discounting at pre-crisis rates (at least Mark 0.3M volume).	BBEL		PRI-PRI	Faulwasser 1892, 41; Baecker and Hecker 2017, 6f.
AUS-1843	May 1843	Australia	Bank of Australia fails, after private loans from other banks help creditor repayments. State guarantees for depositors and (fwd) loans to NSW Savings Bank, at least Apounds 50,000.	AG, AHEL, OLG		PRI-PRI (partly)	Fitz-Gibbon and Gizycki 2001, 14ff.; Reinhart/Rogoff
PT-1846	November 1846	Portugal	Banco do Lisboa (private de facto central bank) on brink of collapse amid general bank runs: arranged merger with Companhia Confianca Nacional to form Bank of Portugal.	RES			Reis 1994, 821, 834; Reinhart/Rogoff
ES-1846	1846-1847	Spain	Liquidity crisis spills over from London: Bank of Isabel II and Bank of San Fernando on verge of bankruptcy, with latter restricting operations to protect reserve. Treasury oversees merger of both banks to stave off crisis.	RES, SBH			Reinhart/Rogoff; Martin-Acena 2018, 176.

	February 1847	Spain	Cabinet approves extra issuance of Reales 20M by new bank amid liquidity squeeze in Madrid.	MLA	Tedde de Lorca 1999, 202.
UK-1847	January 1847	United Kingdom	Default wave and bank runs accelerating in October. BoE, after lending freely over the course of Jan-Sep 1847, decides to no longer lend on stocks and exchequer bills: "widespread panic" as a result. Bank Act suspended late Nov: afterwards, BoE once more lending freely. Selective attempts to rescue important firms by BoE such as Copper Miners Co. (GBP 150,000 – failed attempt).	AHCI, MLA, SBH	Evans 1848; Clapham 1958, II, 204-210; Reinhart/Rogoff
MAU-1847	August 1847	Mauritius	Severe spillover from U.K. volatility to Mauritian banks and merchants: Bank of Mauritius alongside multiple others fails; no interventions reported.	NO/I	Evans 1848, XVIff.
FRA-1848	June 1847	France	Law of June 1847 reduces lowest denomination bills (100 and 200 Franc notes), to increase general liquidity. Forced merger of nine regional banks of issue; founding of new discount bank <i>Comptoir d'Escompte</i> .	MLA, RES	Liesse 1909, 54ff., 109ff.
	February 1848	France	Paris stock exchange closes amid financial crisis and revolutionary panic. Banque de France suspends payments by March, before and after BdF and branches facilitate discounting and widen collateral, at least Fr 153M over Feb-Mar.	BBEL, SBH	Liesse 1909, 59; Bonin 1997.
	March 1848	France	Continued runs on savings banks: government issues decree pledging to protect deposits in coin and treasury bills.	AG	The Economist, March 18, 1848, 314.

BEL-1848	March 1848	Belgium	Bank of Belgium and Societe Generale suspend payments. Authorities temporarily make bank notes of affected institutions legal tender, and guarantee BEF 30M of note issue. Main private banks to deploy BEF 4M in sector aid.	AHEL, OLG, ORL, SBH	PRI-PRI (partly)	The Economist, March 18, 1848, 316; Buyst and Maes 2008, 157f.; Reinhart/Rogoff
AT-1848	March 1848	Austria	Short moratorium on FX and other exchange debts amid political volatilities and bank runs.	DPM		Pressburger 1966, 52.
	May 1848	Austria	Nationwide restrictions on convertibility amid bank runs and reserve drain. Attempts at public suasion.	SBH		Pressburger 1966, 55.
	May 1848	Austria	Austrian Central Banks grants ca. 400,000fl emergency lending to Kosice Savings Bank and Savings Bank of Brastislava amid bank runs.	AHEL		Jobst 2014, 16f.
GER-1848	March 1848	Prussia	Default of A. Schaaffhausen Bank: restructuring, recapitalization, and 10-year public dividend guarantee (on 5.2M Taler equity stock) for re-organized "A. Schaaffhausen'sche Bankverein".	OLG, RES	PRI-PRI (partly)	Feldenkirchen 1982, 89.
ES-1846	1848	Spain	Further troubles at Bank of San Fernando: bank restricts operations, government declares its notes partial legal tender for payment of taxes, and "arranges loan" to replenish reserves.	AHEL, ORL, SBH		Martin-Acena 2018, 176.

TK-1848	1848	Ottoman Empire	Unspecified government "assistance" to Banque de Constantinople as French backers are impacted by financial crisis at home. ix	Other		Baster 1935, 78f.
FRA-1851	December 1851	France	Banque de France grants assistance to Paris Bourse which faces liquidity crisis, discounts Bons de Tresor.	AHEL		White 2011, 79f.
AUS-1852	June 1852	Australia	Government of South Australia declares private bank notes legal tender for one year to support liquidity, rescue Bank of South Australia.	ORL		Fitz-Gibbon and Gizycki 2001, 17.
IRL-1856	February 1856	Ireland	Tipperary Bank failure – Bank of Ireland grants ad hoc assistance over course of year, incl. GBP 30,000 to La Touche's Bank in August 1856.	AHEL		Hall 1949, 230f.; Reinhart/Rogoff
IT-1856	1856	Italy	Amid loss of confidence, Papal government guarantees note issue of Banco dello Stato Pontifico.	OLG	STOW	Magee 1911, 432.
FRA-1856	May 1856	France	Henri Place of Noel Place & Cie defaults with 19M Francs liabilities. Rival Pereire Bros. intervenes to make creditors full – prompting Commerce Tribunal to revoke default.	AHEL	PRI-PRI	Vitu 1882, 450.
CB-1857	August 1857	Cuba	Banking panic threatening El Banco Espanol de la Habana. Governor Gutierrez de la Concha orders early repayment of public loan and 500,000 pesos emergency loan to prevent suspension.	AHEL		Montaud 1995, 287.

	September 1857	United States	Amid panic and bank failures, including Welsey & Co., Board of Brokers restricts time sales to 80 days.	ORL	ASSOC	PRI-PRI	NY Press ed. 1857, 40f.
US-1857	October 1857	United States	Supreme Court declares suspension of deposit convertibility during bank panics as legal. Various interbank assistance schemes via state bank insurance funds (inc. Ohio).	BBEL, ORL		PRI-PRI (partly)	Calomiris 1990, 288; Gorton and Tallman 2018, 31.
	November 1857	United Kingdom	Scotland bank runs: private assistance to Western Bank, but bank fails together with City Bank of Glasgow (which suspends temporarily). BoE refuses direct aid.	AHEL		PRI-PRI	The Economist, November 14, 1857, 1259.
UK-1857	November 1857	United Kingdom	Panic of 1857: BoE first tightens credit to prevent own reserve drain (from 5.5 to 10% for bill discounts Oct-Nov). Then 1844 Bank Act suspended, allowing BoE to lend freely. Major banks are not rescued (Borough Bank of Liverpool, Western Bank), but BoE assists some discount houses and Overend Gurney (total advances: 35m GBP).	BBEL, SBH			Hughes 1956; Calomiris and Schweikart 1991.
AT-1857	November 1857	Austria	Central bank grants liquidity assistance to Creditanstalt and Niederoesterreichische Escompte-Gesellschaft, at least 5M Gulden.	AHEL			Pressburger 1966, 89f.
DK-1857	1857	Denmark	Government sets up "Temporary Loan Fund for the Kingdom" as Nationalbank hesitant to act as a LLR. Loan Fund grants assistance to deposit banks, local governments, and merchants. Eventual ca. 4.5M DKR peak lending via Nationalbanken, including Hamburg's Pontoppidan.	BBEL	Industry (partly) SPV (partly)		Hansen 1968, 257ff.; Abildgren et al 2011, 6; Reinhart/Rogoff

SWE-1857	November 1857	Sweden	In November, Bank of Sweden declares support for credit market: to adhere to silver standard, BoS cooperates with Swedish Stock Exchange to issue foreign bills of exchange via Hamburg, which BoS then buys or discounts. BoS mandate amended to include foreign bills of exchange as official reserves. State Loan Fund (<i>Statslånefonden</i>) is set up with 12M SEK to provide short-term loans to banks. Special 500k SEK loan to <i>Skånes Enskilda Bank</i> .	BBEL, ORL			Oegren 2018, 54ff.
BEL-1857	December 1857	Belgium	NBB de facto provides emergency liquidity by supporting newly-established private discounting SPV, <i>Comptoir de prêts sur marchandises</i> .	AHEL	SPV	PRI-PRI (partly)	Buyst and Maes 2008, 165.
GER-1857	November 1857	Prussia	Wave of bank and merchant failures in Stettin, and house of Hirsch & Moses in Berlin: Prussian state suspends usury laws to enable Bank of Prussia to grant emergency lending, on bonds shares and merchandise, at penalty rates.	BBEL, ORL			Mori et al. 2017, 123.
	November 1857	Hamburg	Spillover from global crisis. Hamburg merchant community creates public exchange guarantee fund (5M Bancomarc).	AG	SPV	PRI-PRI	Ahrens 1978, 9f.
	December 1857	Hamburg	Public authorities stabilize eight merchant-bank houses via 10M Bancomarc loan. Eventual net fiscal cost: 180,000 BM. Some additional private discounting initiatives.	BBEL			Ahrens 1978; Reinhart/Rogoff; Baecker and Hecker 2017, 8f.

FIN-1857	1857	Finland	Liquidity strains from intl. 1857 crisis: Bank of Finland pursues "active lending policy" via discounts and hypothecary fund; approves debt moratoria and lengthening of credit repayments.	BBEL, DPM		Kuusterae and Tarkka 2011, I, 254.
NOR-1857	December 1857	Norway	Multiple bank failures in December: Norwegian government approves USD 1M in assistance, approves (unspecified guarantees) to merchant and bank community.	BBEL, OLG		Grytten and Hunnes 2010, 13; Mori et al. 2017, 141.
SZ-1859	April 1859	Switzerland	Run in Geneva on Banque Générale Suisse de Crédit International Mobilier et Foncier: bank has to meet withdrawal of 75% of all deposits. Bank receives unspecified "help" to meet depositor demands. Bank is liquidated by 1871 after continued losses.*	AHEL	PRI-PRI	Jöhr 1915, I, 162ff.
RUS-1859	June 1859	Russia	1857 crisis leads to collapse of old banking system, wave of defaults, and eventually to founding of new Russian State Bank by 1860 via liquidation of State Loan Bank, and Credit Note Bureau. Partial deposit conversions into state bonds. Up to 100M Rubles granted in public funds to cover deposit withdrawals in June 1859.	BBEL, BAIL, RES	PRI-PRI (partly)	Garvy 1972, 878f.; Hoch 1991, 805; Kuusterae and Tarkka 2011, I, 217ff.
CAD-1861	1861	Canada	After heavy losses in railroad business, <i>Upper Canada Bank</i> on brink of collapse: government commits to holding minimum 1.2M CAD deposits at bank going forward.	AHEL		Baskerville (ed.), 1987, CXXXVII.
US-1861	December 1861	United States	Banks in New York, Philadelphia, and Boston suspend gold convertibility after weeks of war-related "panic" among depositors. Implicit backing of Chase/Treasury.	DPM		Hammond 1970, 140ff.

	December 1861	United States	Upon outbreak of Civil War, banking panic looms. NYCH member banks agree to pool reserves to avert bank runs. Total paid-in pool (Sep. 30, 1861): US\$ 383.4M.	BBEL	ASSOC	PRI-PRI	Camp 1892, 687; Wicker 2005, 44.
CL-1862	August 1862	Chile	Emergency loan to <i>Mortgage Bank</i> from Treasury amid financial sector volatility.	AHEL		STOW	Brock 2016, 15.
RUS-1862	1862-1863	Russia	Various restructurings of banks (i.e. St. Petersburg and Moscow Savings Banks) and forced conversions of demand deposits from mid-1859, to prevent withdrawals; temporary ban on new loans.	BAIL, ORL, RES, SBH		PRI-PRI (partly)	Hoch 1991, 805ff.; Reinhart/Rogoff
CN-1863	1863	China	No interventions found in standard literature or contemporary news (i.e. Horesh 2009).	NO/I			Reinhart/Rogoff (updated)
TK-1863	February 1863	Ottoman Empire	Founding of Imperial Ottoman Bank to battle recurring financial turbulence and capital flight. De facto recap.and restructuring of existing Ottoman Bank.	AHCI, RES			Autheman 1996, 22ff.
RUS-1863	November 1863	Russia	Run on banks in St. Petersburg, rumors of impending war against Britain, France, and Austria. Suspension of convertibility at Russian State Bank as reserves bled.	SBH			Kuusterae and Tarkka 2011, I, 224.
IN-1863	1863-1866	India	Spillover from Overend & Gurney, and separate Bank of Bombay failure. Subsequent parliamentary inquiries, but no evidence of immediate policy action.	NO/I			House of Commons 1869; Conant 1915, 574ff.; Reinhart/Rogoff

BRL-1864	September 1864	Brazil	Failure of J. Souto Bank and widespread financial panic – Bank of Brazil suspends convertibility. 60-day general bank suspension. Bank of Brazil provides Milreis 30M interbank emergency liquidity. Bank of Brazil and others are granted authority to boost private note issuance, reaching up to four times fundo disponivel.	BBEL, CRL, MLA, SBH	PRI-PRI (partly)	Baster 1935, 138; Mettenheim 2010, chapter 3; Villela 2020, 147.
ES-1864	October 1864	Spain	Two large bank failures including Banca de Valladolid, and Banca Castellano, sharp stock market fall. No intervention by BdE or Treasury.	NO/I		Tortella 1975, 243ff.
CL-1865	1865	Chile	Run on <i>Banco de Chile</i> and others leads government to declare bank note issue legal tender for tax purposes.	ORL		Brock 2016, 29.
SZ-1865	1865	Switzerland	Banque Cantonale de du Valais is supported with at least 2.77M SFR in exchange bills over 1865-1869 from Canton Wallis treasury, amid liquidity problems. Bank fails in Dec. 1870, when Canton refuses further aid.	AHEL		Jöhr 1915, I, 173.
SAF-1865	1865-1869	South Africa	Bank crisis triggered by drought and overexpansion: multiple failures and liquidations (i.e. Montagu Bank Nov 1868, Frontier Commercial and Agricultural Bank 1869).	NO/I		Arndt 1928, 271ff.; Reinhart/Rogoff
IRL-1866	March 1866	Ireland	Spillover from Overend crisis. La Touche, Royal Bank, Munster Bank, Hibernian Bank request extra GBP 180,000 overdrafts at Bank of Ireland, which are granted. Union Bank of Ireland and European Bank fail.	AHEL		Hall 1949, 248ff.; O Grada 2010.

UK-1866	May 1866	United Kingdom	Overend-Guerney crisis: BoE lends freely upon "legitimate" collateral via advances and discounts (GBP 4m on May 11 th), until reserves dangerously low. Bank Act suspended May 1866, BoE lends freely at penalty rate, and once more to bill brokers, but in fact carefully manages collateral and counterparty risks (Flandreau and Ugolini).	BBEL, SBH		Clapham 1958, 1; Flandreau and Ugolini 2011.
IT-1866	May 1866	Italy	Government declares inconvertibility of bank notes ("corso forzoso") in May 1866 after heavy runs and doubts over sovereign debt.	SBH		Toniolo and White 2015, 9f.; Reinhart/Rogoff
UG-1866	June 1866	Uruguay	Widespread bank runs after Overend Gurney collapse: Maua Bank on brink of collapse. Government aids Maua by allowing suspension of convertibility for six months.	SBH		Joslin 1963, 56; Marchant 1965, 185f.
GER-1866	June 1866	Saxony	Major bank runs and stock market crash upon outbreak of Austro-German war. Saxonian government advances 430,000 Thaler to Chemnitz Stadtbank to ease credit strain, Leipziger Bank offers systemic discounting.	BBEL		Poschinger 1877, 79, 92ff.
AUS-1866	July 1866	Australia	Spillover of volatility from U.K.: amid run on savings banks, public Treasury issues public guarantees (rhetorically, not in legal form).	BG, MC	STOW (partly)	Fitz-Gibbon and Gizycki 2001, 18.
ES-1866	July 1866	Spain	Bank of Spain on verge of suspending payments: restriction of withdrawals and negotiation of Rothschild loan to replenish metallic reserve.	AHEL, SBH	PRI-PRI (partly)	Martin-Acena 2018, 180.

BEL-1866	August 1866	Belgium	Spillover from Overend: private banks set up joint discounting facility, <i>Caisse d'avances sur marchandises</i> , but reject need for public involvement.	AHEL	SPV	PRI-PRI	Buyst and Maes 2008, 165.
EG-1866	1866	Egypt	Viceroy of Egypt provides assistance to Anglo-Egyptian Bank by repayment of previous loans at par prices; 50,000 GBP additional compensation for crisis losses.	AHEL			Baster 1935, 68.
BRL-1866	1866	Brazil	Government authorizes help for London Bank amid run from Overend volatility spillover, via Bank of Brazil and by discounting own Treasury notes at London Bank.	AHEL			Baster 1935, 140; Joslin 1963, 72.
CB-1866	December 1866	Cuba	Multiple suspensions of banks, threatening Banco Espanol de la Habana: captain general Joaquin de Manzano authorizes imposition of withdrawal limits and relaxes note coverage requirements. In 1867, permission to increase note issuance, capital raises.	CRL, SBH			Montaud 1995, 293ff.
CN-1866	1866-1867	China	At least six major banks fail in Hong Kong after Overend crash, including Agra and Masterman Bank, and Asiatic Bank. Accounts taken over by HSBC, CMBILC, and CBIAC. Agra Bank restructured. Shanghai banking guild engages in emergency lending to members, ca. 60-70,000 Tls.	AHEL, RES		PRI-PRI	McElderry 1976, 83; King 1987, 78ff.; Reinhart/Rogoff; Horesh, 2014, 151f.
IRL-1867	February 1867	Ireland	Concerns over La Touche Bank: Bank of Ireland grants several emergency loans, starting with GBP 45,000 advance in Feb. 1867. Eventual sale to Munster Bank.	AHEL			Hall 1949, 255ff.

CAD-1867	September 1867	Canada	Run on Commercial Bank: government persuades Montreal Bank to grant CAD 300,000 emergency loan.	AHEL		PRI-PRI	Breckenridge 1895, 307; Reinhart/Rogoff
FRA-1867	September 1867	France	Credit Mobilier bankruptcy: Banque de France "reluctantly" supports bank prior to demise, but demands FRF 10M owner participation.	AHEL, BAIL		PRI-PRI (partly)	Stoskopf 2002, 5.
IT-1868	1868	Italy	Upon declaration of Austro-German War, National Bank granted authority to suspend specie payments, but required to provide circulating notes to rest of banking system free of charge. In 1868, commercial banks' note issuance liberalized and made legal tender.	BBEL, ORL, SBH			Conant 1915, 19f.; Reinhart/Rogoff
	September 1869	Austria	Central bank grants liquidity assistance to Anglo- Oesterreichische Bank (400,000 Gulden).	AHEL			Pressburger 1966, 135f.
AT-1869	September 1869	Hungary	Liquidity crunch in Hungary: banker's association of Pest demands Gulden 3M emergency assistance, but central bank refuses broader assistance for Hungary.	NO/I			Popper 1911, 26.
BEL-1870	July 1870	Belgium	National Bank of Belgium affected by Franco-German war outbreak. Specie convertibility restricted to Brussels and Antwerp branches. Significant public suasion to prevent conversions.	SBH, other		STOW	Conant 1910, 20ff.; Reinhart/Rogoff
SZ-1870	August 1870	Switzerland	Establishment of private market mutual guarantee funds to sustain liquidity (i.e. <i>St. Gallische Garantie-Verein</i>). Crisis abates with end of Franco-German war.	AHEL	SPV	PRI-PRI	Gygax 1907, 171ff.; Reinhart/Rogoff

GER-1871	March 1871	Alsace- Lorraine	Credit crisis of savings banks after German annexation of Alsace-Lorraine: German authorities declare 7-month moratorium on all bills, then provide banks with FRF 4.2M in emergency funds.	BBEL			Des Essars 1896.
US-1871	December 1871	United States	Ocean Bank fails: New York Clearing House provides assistance, up to USD 2.6M.xi	AHEL		PRI-PRI	NY Tribune, December 13, 1871; Gorton and Tallman 2018, 77.
PR-1872	1872-1876	Peru	Gold coinage suspended; switch to silver. Legislation restricting issuance of bank notes, and requiring domestic debt coverage of bank bills. Banks are granted nitrate sales income in exchange for loans; Banco de Lima fails 1878.	BBCI, ORL			Camprubi Alcazar 1957, 142ff., 175ff.; Greenhill and Miller 1973, 117f.; Reinhart/Rogoff
BEL-1872	December 1872	Belgium	Fear of bankruptcy of Banque de l'Union: private banks establish discounting fund, with BEF 5M capital. NBB guarantees 20% of potential SPV losses.	AHEL, OLG	SPV	PRI-PRI (partly)	Crombois 1994, 15; Buyst and Maes 2008, 168.
AT-1873	May 1873	Austria	Central bank and leading Viennese banks establish assistance fund with 18M Gulden capitalization (central bank: 5M share), to provide emergency bank loans. Vienna stock exchange closed in May. Maerz (1982, 188): up to 88M Gulden discounting advances by "Aushilfs-Comite".	BBEL, SBH	SPV	PRI-PRI (partly)	Pressburger 1966, 140; Maerz 1982, 188; Charwarth 2011.

	May 1873	Austria	Government suspends Bank Act to enable full emergency lending by central bank (equivalent to Peel Act suspension). Suspension ends Oct-1874.	ORL			Pressburger 1966, 141.
	June 1873	Austria- Hungary	Public-private consortium founded to stabilize equity prices via joint purchases (12M Gulden fund, 1M central bank share), including Boden-Credit Anstalt equity.	BBEL	SPV	PRI-PRI (partly)	Pressburger 1966, 143f.; Baron, Verner, Xiong 2021.
	September 1873	United States	Amid bank runs, from September 1873, Treasury offers to redeem government bonds in bank portfolios at price not exceeding par in currency, ca. US\$ 13M volume taken up.	MLA			Sprague 1910, 40ff.; Reinhart/Rogoff
US-1873	September 1873	United States	New York Clearing House suspends publication of bank data between September-December 1893, and issues loan certificates. NY stock exchange closed for 19-29 th September.	BBEL, ORL, SBH		PRI-PRI	Gorton and Tallman 2018, 47, 50.
GER-1873	1873	Germany	Multiple high-profile bank failures over 1873-1875 amid "Gruenderkrise", including Rheinische Effektenbank. Latter is not saved. No evidence of specific interventions.	NO/I			Krueger 1925, 83; Schularick and Taylor 2012.
IT-1873	1873	Italy	Credit and deposit contractions noted in De Bonis and Silvestrini (2014) – but no evidence of interventions.	NO/I			Schularick and Taylor; De Bonis and Silvestrini 2014.

CN-1873	1873	Canada; China	Crisis in Shanghai reported in McElderry (1976, 84f.), but no indications of interventions, including in King (1987) and others.	NO/I			McElderry 1976, 84f; Reinhart/Rogoff
SZ-1873	1873	Switzerland	Global crisis affects Swiss banks and commerce: Berne Kantonalbank creates CHF 1M in 6-month "sola bills" to aid markets and meet surge in (emergency loan) demand.	MLA	Industry (partly)		Leuenberger 1912, 59.
BRL-1875	May 1875	Brazil	Financial crisis in Brazil: government extends Milreis 16M emergency loans to "salvageable" banks (Banco de Brazil, Banco Rural e Hypothecario, and Deutsch-Brasilianische), lets others fail.	AHEL			Summerhill 2015, 193.
CL-1875	July 1875	Chile	Banking crisis: government declares four-month suspension of payments and changes in accounting practices.	SBH, ORL			The Economist, Sep 18, 1875, 1107f.
RUS-1875	October 1875	Russia	"Strousberg failure", default of Commerce and Loan Bank of Moscow. Assistance from Russian Treasury amid runs.	AHEL			The Economist, Nov 6, 1875, 1307f.; Reinhart/Rogoff
UG-1875	November 1875	Uruguay	Severe banking turbulence after suspension of debt payments and May decree on legal tender: all but two major banks survive. Private "compact" between Comercial, London and River Plate banks and merchants to transact in gold only and refuse new government money.	ORL		PRI-PRI	Joslin 1963, 58f.

BEL-1876	March 1876	Belgium	Crisis around collapse of "Philippart industrial empire": private "Consortium d'assistance" formed to channel aid partly via Societe de Construction (BEF 17.2M), and directly to Banque de Belgique (BEF 9M). Treasury provides some guarantees on losses.	AHEL, OLG		PRI-PRI (partly)	Crombois 1994, 18f.; Buyst and Maes 2008, 168f.
PT-1876	April 1876	Portugal	"Several smaller financing houses" in Oporto receiving assistance by Bank of Portugal after loss of confidence (300,000 GBP). <i>Caxia Geral de Depositos</i> founded as additional public lender and state-guaranteed deposit bank.	AG, AHEL, ORL			Reis 1995, 474; Silva 2019; Baron, Verner, and Xiong 2021.
ARG-1876	May 1876	Argentina	Bank runs in Buenos Aires and Santa Fe: Banco de la Provincia suspends convertibility; Rosario government liquidates London Bank branch. Banco Nacional and Banco de la Provincia notes made legal tender.	SBH, ORL, RES			Baster 1935, 133ff.; Joslin 1963, 43ff.
SWE-1876	1876-1879	Sweden	Riksbank engages in heavy commercial bill and bond discounting in first phase of crisis; by mid-1879, bank recapitalization fund (financed by BoS) established to swap bad railroad bonds for public capital (Jernvägshypoteksfonden), SEK 23M volume.	BBAM, BBCI, BBEL	SPV (partly)		Oegren 2018, 58ff.; Reinhart/Rogoff
DK-1877	1877	Denmark	Danmark's Nationalbanken provides emergency loans to "a few" banks. Ca. DKr 6.7M total.	AHEL			Svendsen et al. 1968, 333f.; Abildgren et al 2011, 6; Reinhart/Rogoff

SAF-1877	1877	South Africa	General depression in South Africa and multiple bank failures. Some private consolidation, i.e. absorption of London and South Africa Bank by Standard Bank in 1877.	RES		PRI-PRI	Arndt 1928, 276ff.; Reinhart/Rogoff
CL-1878	July 1878	Chile	Government declares all bank notes legal tender amid run on <i>Banco Nacional de Chile</i> .	ORL			Brock 2016, 29.
UK-1878	October 1878	United Kingdom	City Bank of Glasgow crash. BoE acts as LLR through purchase of private securities, lends cash to individual banks upon collateral in Consols (London and County Bank 1879). Some ongoing debate over extent of LLR.xii	BBEL			Collins 1989, 523-525; Kynaston 2017, 211f.
AUS-1879	May 1879	Australia	Associated Banks of Victoria (industry body) aids Australian and European Bank, City of Melbourne Bank: at least 90,000 pounds lending offered.	AHEL	ASSOC	PRI-PRI	Fitz-Gibbon and Gizycki 2001, 19ff.
LUX-1879	1879	Luxemburg	Bankruptcy of Banque Nationale de Luxembourg in 1881, and subsequent bank failures during 1880s, but no reports of interventions in Lehners (1994).	NO/I			Lehners 1994;
GER-1880	1880	Germany	Some broad preferential lending by Reichsbank.	MLA	Market		Bopp 1953, 17ff.; Reinhart/Rogoff
SAF-1881	1881	South Africa	Collapse of Oriental Bank in 1879 includes South African subsidiaries. Reorganized locally as Bank of Africa in 1880. Multiple other bank failures in 1881 as diamond bubble bursts (i.e. Cape Commercial Bank, South African Bank).	RES		PRI-PRI	Arndt 1928, 281ff.; Jones 1996, 33f.; Reinhart/Rogoff

FRA-1882	January 1882	France	Collapse of railroad underwriters amid speculative boom, Union Generale and near-collapse of Suez. Banque de France refuses aid to Lyon Bourse, but aids Bourse de Paris, FRF 80M loan, with private risk-sharing.	AHEL	PRI-PRI (partly)	Liesse 1909, 176f.; Reinhart/Rogoff; White 2011, 81f.
	January 1882	France	Lyon Bourse forms private guarantee syndicate to calm fallout and enable loss-sharing: participation of Rothschild, Demachy, and Seilliere banks, at least FRF 60M volume.	OLG	PRI-PRI	Vitu 1882, 458ff.; Juglar 1889, 327.
EG-1882	January 1882	Egypt	For remainder of year, Egyptian international banking heavily distressed and almost wholly suspended given British invasion, rebellions.	SBH		Baster 1935, 71.
CN-1883	January 1883	China	Silk sector crisis and outbreak of Sino-French War destabilizing banks. Failure of Hu-Kwang Yung banker in December 1883 and collapse of up to 88 local Shanghai banks; by May 1884, Oriental Bank fails in China. Some private emergency lending for healthier banks, incl. HSBC.	AHEL	PRI-PRI	King 1987, 311; Reinhart/Rogoff; Sheehan 2018, 46ff.
MX-1883	March 1883	Mexico	Run on Banco Nacional Mexicano: bank saved by continued support from Banco de Londres and Banco Mercantil via pledge to keep accepting notes.	ORL	PRI-PRI	McCaleb 1920, 21.
ES-1883	June 1883	Spain	Heavy capital outflows threaten Bank of Spain and other banks after French stock market crash. Spain in response leaves gold standard and floats FX.xiii	SBH, other		Martin-Acena 2018, 183.
CB-1884	1884	Cuba	De facto suspension of convertibility and debt moratoria, amid major currency-cum-banking crises.	DPM, SBH		Fernandez 1987, 109ff.

IN-1884	1884	India	Default of Oriental Bank Corporation (OBC). Various intl. guarantee programs at counterparties: Indian guarantee for Chartered Mercantile Bank; Colonial governments in Ceylon, Burma, and Mauritius guarantee OBC notes to limit local crisis fallout.	AG, OLG		Horesh 2009, 51f.; Sheehan 2018, 61f.
	April 1884	Mexico	Prior to Monte Piedad collapse, Banco Nacional Mexicano loans Pesos 232,000 in final attempt to stem reserve drain at competitor.	AHEL	PRI-PRI	McCaleb 1920, 23.
MX-1883	May 1884	Mexico	Suspension of Monte Piedad. Forced merger of Banco Nacional and Banco Mercantil into Banamex.	RES		Maurer and Gomberg 2004; Reinhart and Rogoff.
US-1884	May 1884	United States	New York Clearing House facilitates US\$ 3m private stabilization loan to Metropolitan National Bank; Clearing House suppresses release of bank-specific data in May 1884, and issues extra loan certificates.	BBEL, MLA, ORL	PRI-PRI	Sprague 1910; Reinhart/Rogoff; Gorton and Tallman 2018, 52f.
AT-1884	December 1884	Austria	Default of Prager Bank and crisis at Niederoesterreichische Escomptegesellschaft: central bank relaxes collateral requirements to prevent bank runs, and assistas with ca. 15M Gulden total escompte (discount) expansion.	BBEL		Pressburger 1966, 194ff.
BEL-1885	1885	Belgium	No intervention reported in Buyst and Maes (2008) or contemporary news accounts.	NO/I		Schularick and Taylor 2012

DK-1885	1885	Denmark	"Liberal lending" on the part of the Danish central bank, amid wave of bankruptcies.	BBEL			Abildgren et al 2011, 6; Reinhart/Rogoff
IRL-1885	July 1885	Ireland	Munster bank crisis. Bank of Ireland grants special overdrafts of GBP 400,000, but bank fails by July 1885, with shareholders and creditors wiped out. (Later reestablished as <i>Munster and Leinster Bank</i>).	AHEL			Hall 1949, 282ff.; O Grada 2010.
FIN-1887	1887	Finland	No interventions reported in Kuusterae and Tarkka (2012).	NO/I			Schularick and Taylor 2012.
IT-1887	November 1887	Italy	Real estate bust in Rome area: Tiber Bank, Naples Building Association and Italian Mortgage Bank Society receive at least Lira 103M in emergency loans from National Bank.	AHEL			Des Essars 1896, 167; Reinhart/Rogoff
NZL-1888	1888	New Zealand	At present, no evidence of interventions.	NO/I			Baron, Verner, Xiong 2021.
FRA-1889	March 1889	France	Comptoir crisis. Banque de France (BdF) "lifeboat operation": direct 140m Francs BdF loans to Comptoir to satisfy depositors; Est. 195m Francs additional liquidity provision to Paris market by BdF in March-April 1889 (ibid., 113).	AHCI, BBEL, RES	SPV (partly)		Hautcoeur, Riva, and White 2014.
	March 1889	France	At insistence of BdF, creation of private bank syndicate to guarantee first 40m Francs of potential BdF loan losses;	AG	ASSOC	PRI-PRI	Hautcoeur, Riva, and White 2014.

			orderly liquidation of <i>Comptoir</i> over the medium term, under BdF supervision (Hautcoeur, Riva, and White 2014).				
BRL-1890	January 1890	Brazil	Emergency credits to Banco do Brazil and other banks by Barbosa Treasury amid liquidity squeeze.	BBEL			Mettenheim 2010, chapter 3.
ARG-1890	March 1890	Argentina	Bank runs on Banco Nacional and Banco de la Provincia de Buenos Aires. Government provides assistance, authorizes additional note issuance. By August, assistance extended to National Mortgage Bank and others.	AHEL			Della Paolera and Taylor 2001, 70ff.; Reinhart/Rogoff
	April 1890	Argentina	Suspension of Argentine Bank Act amid continued heavy runs centered around National Bank, Provincial Bank of Buenos Ayres.	SBH			The Economist, July 19, 1890, 920f.
JP-1890	May 1890	Japan	Major credit contraction, wave of bank failures: from May 1890, BoJ relaxes collateral requirements and significantly increases discounting activity. Est. JPY 36M extra discounts.xiv	BBEL			Schularick and Taylor 2012; Nakabayashi 2017, 233f.
UK-1890	November 1890	United Kingdom	Baring's crisis: GBP 15.7m in unfunded liabilities at bank, speculative assets in Argentine debt. BoE funds 7.5m credit line in Nov. 1890, after government agrees to share losses.	AHEL			Reinhart/Rogoff; White 2016.
	November 1890	United Kingdom	"Guarantee Fund" syndicate set up to share wind-down of bad assets (White 2016: essentially "good bank, bad bank" model).	BBAM	SPV	PRI-PRI	White 2020.

US-1890	November 1890	United States	New York Clearing House suspends publication of weekly data in November over Baring crisis spillovers; approves issuance of clearing house certificates (ca. USD 12.5M).	BBEL, ORL	PRI-PRI	Gorton and Tallman 2018, 45, 51.
SWE-1890	November 1890	Sweden	Riksbank aids commercial banks amid liquidity squeeze, by discounting freely. Est. at SEK 880k (net).	BBEL		Fregert 2018, 114ff.
FIN-1890	November 1890	Finland	Bank of Finland rescues Kansallis Bank via LLR operation, along Bagehotian lines. Peak est. at FIM 3.5M.	AHEL		Pipping 1969, 291; Kuusterae and Tarkka 2011, I, 325f.
ES-1890	1890	Spain	At present, no crisis interventions identified: BdE balance sheet broadly unchanged.	NO/I		Schularick and Taylor; Martin- Acena 2018, 182ff.
PG-1890	1890	Paraguay	Political revolts and general volatility over 1890-91. Financial panic reported at Asuncion in June 1891. At present, no specific crisis interventions identified.	NO/I		Annual Register 1891, 421; Reinhart/Rogoff
PT-1890	1890	Portugal	Financial crisis ending in state default by 1892: Treasury extends bank guarantees via Banco do Portugal to aid commercial banks (at least 1,044 <i>contos</i> by 1892); Twomonth moratorium declared May 1891.	BBEL, DPM, OLG		Lains 2008, 501; Reinhart/Rogoff; Branco, Sousa, and Valerio 2012, 7.
ARG-1890	July 1891	Argentina	Further heavy bank runs and wave of failures: general debt moratorium declared.	DPM		Baster 1935, 147; Reinhart/Rogoff

SAF-1890	July 1890	South Africa	Bubble bust related to gold market speculation, toppling Union Bank in July, and Paarl Bank. Rescue attempts for Cape of Good Hope Bank from De Beers in conjunction with government and Standard Bank – some minor support of bank's share price, but bank fails. Private emergency recap for Stellenbosch District Bank to enable re-opening.	AHCI	PRI-PRI	Arndt 1928, 288ff.; Reinhart/Rogoff
IT-1891	1891	Italy	Real estate bust, taking some banks with it. Tariff war with France. Interventions follow in 1893-4 (s.b.).	NO/I		Reinhart/Rogoff
FRA-1891	March 1891	France	Failure of <i>Societe des Depots et Comptes Courants</i> : Private banker syndicate advances 15m Francs; Banque de France rediscounts 50m Francs of Societe's loans to secure depositors and creditors.	AHEL, AG, OLG	PRI-PRI (partly)	Liesse 1909, 190;
BRL-1890	1891	Brazil	More than GBP 2M in emergency loans to four private regional banks by Lucena Treasury.	AHEL		Mettenheim 2010, chapter 3.
GER-1891	November 1891	Germany	Bank runs triggered by default of <i>Hirschfeld & Wolff</i> , and <i>E. Maass</i> after speculative bets on contracts for difference. Government reacts belatedly (over 1892-1896) with stock market reforms and curbs on futures speculation.	ORL		Reinhart/Rogoff; Tilly 2013, 189ff.
HK-1892	1892	Hong Kong	Major bank failures from April 1891 (B. and A. Hormusjee, Dickson & Co. and Browne & Co. of Penang); New Oriental Bank failure by 1892; HSBC assists some affected local shareholders, i.e. in Kechang Filature Association.**	AHEL	PRI-PRI	King 1987, 404ff., 438ff; Baron, Verner, and Xiong 2021.

AUS-1893	March 1892	Australia	Associated Banks of Victoria (industry body) declares full mutual assistance during bank crisis in March 1892.	BG	ASSOC	PRI-PRI	Fitz-Gibbon and Gizycki 2001, 24; Merrett 2013.
	May 1893	Australia	Victorian state government declares bank holiday in May 1893; several banks receive permission to restructure by converting deposits into preference shares. Government of New South Wales declares bank notes legal tender via 'Bank Issue Act' of May 1893. In April, New South Wales declares no further banks in the state will be allowed to fail; 50% of deposits at suspended banks reimbursed in Treasury notes.	SBH, BG, ORL			Hickson and Turner 2002, 162ff.; Reinhart/Rogoff
	May 1893	Australia	Government makes large deposit into City Bank of Sydney for six months.	AHEL			Hickson and Turner 2002, 162ff.;
US-1893	June 1893	United States	New York Clearing House issues loan certificates in August 1893 amid market turbulence (USD 37.4M by Aug.17). In August, New York banks suspend deposit convertibility.	BBEL, SBH	Market	PRI-PRI	Gorton and Tallman 2018, 55, 113; Reinhart/Rogoff
IT-1893	August 1893	Italy	Banca Romana is liquidated through founding of new Banca d'Italia, which takes over all assets and liabilities. Total government costs ca. 60M lire to bail out creditors, asset write-downs.	AG, AHCI, RES			Toniolo 1995, 297; Pani 2017.

	August 1893	Italy	Amid bank runs, banks are allowed to issue notes above existing legal limits, paying a tax below the discount rate. Metallic reserve requirement upheld. Several failures.	MLA, ORL	Magee 1911, 436.
NL-1893	1893	Netherlands	Spillover from global panic in Amsterdam, but no evidence of interventions at present.	NO/I	Schularick and Taylor 2012.
MX-1893	1893	Mexico	Sovereign debt crisis and domestic agrarian stress, some market spillover from New York financial fallout - but no interventions mentioned in Marichal (1995, 369ff.) and others.	NO/I	Marichal 1995, 369ff.
UG-1893	1893	Uruguay	Failure of the National Bank. Various legal responses, including renunciation of private banks to issue notes, restriction of further bank establishments.	ORL	Conant 1915, 516f.; Reinhart/Rogoff
CB-1893	September 1893	Cuba	Widespread bank suspensions (incl. Banco del Comercio), liquidity squeeze since June; Havana City Council provides Pesos 4M loan guarantee to Banco Español de la isla de Cuba, inducing private recap, as well as partial (1/3) note guarantee.	OLG	Montaud 2004, 151ff.
NZL-1893	June 1894	New Zealand	Government guarantee on BNZ's GBP 2M preference shares issued in London.	AHCI	David (ed.) 1894, 4ff.; Hunt 2009, 30; Reinhart/Rogoff.

CAD-1894	December 1894	Canada	Collapse of Commercial Bank and Union Bank of Newfoundland: via passing of emergency Bank Note Act, Union Bank notes are guaranteed at 80 cents on Dollar, Commercial notes at 20 cents on Dollar.	AG, OLG		Boston Globe, December 11, 1894.
CL-1895	February 1895	Chile	Widespread bank runs amid Chilean transition to gold standard. Government extends Pesos 8M to banks of issue to stabilize situation.	BBEL		Financial Times, July 12, 1898.
TK-1895	1895	Ottoman Empire	Run on Ottoman Imperial Bank by Armenians in Constantinople: debt moratorium and suspension of convertibility declared.	DPM, SBH		Baster 1935, 99.
NZL-1893	September 1895	New Zealand	Recapitalization of BNZ with GBP 500,000 government participation. Asset Realization Board (ARB) established to outsource bad assets.	AHCI, BBAM	SPV	Hunt 2009, 30; Reinhart/Rogoff.
	October 1895	New Zealand	"Good assets" at troubled institution, Colonial Bank, taken over by BNZ with tacit government involvement.	АНАМ		HRNZ 1896, LIXff.
FRA-1896	February 1896	France	Banque de France extends emergency liquidity on good collateral to brokers after gold crash, financial volatility, ca. FRF 30.493M.	BBEL		White 2011, 84f.
IN-1897	March 1897	India	Reports of severe financial crisis resulting from the closure of the Mint. Unclear if interventions occurred.	NO/I		Financial Times, March 22, 1897.

RUS-1896	1896	Russia	[other literature dates crisis from 1899, c.f. below]				Reinhart/Rogoff
BRL-1897	1897	Brazil	Triner (2000) and Summerhill (2015) report no interventions.	NO/I			Reinhart/Rogoff
CN-1897	1897	China	Refers to "Discount Storm" that sees bankruptcy of up to 26 discount houses. No government intervention reported.	NO/I			Zhaojin 2002, 91f.; Reinhart/Rogoff.
NL-1897	1897	Netherlands	No interventions found in standard literature.	NO/I			Reinhart/Rogoff
AUS-1897	November 1897	Australia	Queensland issues one-year deposit guarantee, fearing bank run on Queensland National Bank.	AG			Fitz-Gibbon and Gizycki 2001, 32.
UG-1898	1898	Uruguay	Bank runs from September 1898, but no reports of interventions in Conant (1915, 517f.), Yaffe (2003) and others.	NO/I			Reinhart/Rogoff
NOR-1898	July 1898	Norway	"Kristiana Crash": Norges Bank over 1889-1901 provides LLR support, organizes restructuring and liquidation process for banks: Lie (2020, 102) suggests peak provision of NOK 117M. Reimbursement of depositors and other creditors of <i>Depositobanken</i> and later <i>Industriebanken</i> .	AG, BBEL, RES			Reinhart/Rogoff; Gerdrup 2003, 18f; Lie 2020.
	July 1899	Norway	Private guarantee on NOK 1.2M of troubled <i>Den Nordiske Aktienbanken</i> liabilities, as precondition for public liquidity support.	OLG	F	PRI-PRI	Lie 2020, 103.

	December 1899	Norway	Separate attempts over 1899-1901 to save <i>Industriebanken</i> : overnment provides support partly via placement of deposits (NOK 4M). Norges Bank provides ca. NOK 3.25M in extra discounting. Eventual liquidation. ^{xvi}	AHEL, RES			Lie 2020, 104.
CL-1898	August 1898	Chile	Heavy bank runs in Santiago; moratoria granted to banks in July; by August, government guarantees all bank note issuance. Switch to paper money and USD 50M legal tender note issuance to stabilize banks.	BG, MLA, SBH	Market (partly)		Subercaseaux 1911, 683f.; Reinhart/Rogoff; Brock 2016, 29.
SWE-1897	1899-1909	Sweden	Riksbank established special lending facility to aid note- issuing banks (enskilda banks) in transition to withdraw own notes. Not associated with runs on banks.	BBEL			Reinhart/Rogoff; Fregert 2014, 357.
RUS-1896	June 1899	Russia	Systemic banking crisis: Russian State Bank provides extensive LLR support (ca. 2.7BN Roubles to 1902), as well as direct liquidity provision to private investor community (call loans) and own security purchases.	BBCI, BBEL, MLA		STOW (partly)	Lychakov 2018, 82ff.
CN-1900	June 1900	China	Wave of capital flight from Shanghai after Boxer Rebellion outbreak: Shanghai officials, Bankers guild, and foreign banks strike "compact" to prevent financial collapse by issuing non-redeemable paper money, committing to continued private liquidity provision (via "chop loans").	BBEL, other		PRI-PRI (partly)	McElderry 1976, 92f.
BRL-1900	September 1900	Brazil	GBP 900,000 emergency loan and restructuring of Banco da Republica amid runs, including swap of bank debt with Treasury notes (ownership remains mixed public-private).	AHEL, RES			Reinhart/Rogoff; Mettenheim 2010, chapter 3.

FIN-1900	November 1900	Finland	Bank of Finland intervenes in Bank of Agriculture and Industry: special Lombard credits and management change in autumn 1900; enforced shut-down in winter 1902 after orderly liquidation fails. At least 1.5M Markka public losses by 1917. xvii	AHEL, RES		Kuusterae and Tarkka 2011, I, 348f.
GER-1901	June 1901	Germany	Crisis at Prussian and Pfandbrief banks. Private emergency help for Pomeranian Mortgage Bank from Deutsche Bank and Darmstaedter Bank; Prussian mortgage banks provide 15M Mark aid to Preussische Hypothekenbank and Deutsche Grundschuld Bank. Bopp (1954, 202) suggests RM 323M extra lending by Reichsbank at height of volatility in June to stop runs.	BBEL	PRI-PRI	Kritzler 1903, 4ff.; Financial Times, June 11, 1902; Bopp 1954; Reinhart/Rogoff
JP-1901	April 1901	Japan	Wave of failures in Osaka and Central/Southern provinces, including run on Yokohama Specie. Suasion by government to encourage mergers among smaller banks; unspecified "assistance" from Bank of Japan to banks.	other	PRI-PRI (partly)	Financial Times, April 27, 1901; Patrick 1999; Reinhart/Rogoff
DK-1902	1902	Denmark	Abildgren et al (2011, 6) and others do not report interventions. Nationalbanken lending y-o-y actually down.	NO/I		Reinhart/Rogoff
US-1905	December 1905	United States	Failure of Chicago National Bank, Home Savings Bank, and Equitable Trust Companies: Clearing House announces full guarantee for depositors (vol. ca. USD 27.1M) to prevent banking panic.	AG	PRI-PRI	Financial Times, December 19, 1905.

RUS-1905	1905	Russia	Amid revolutionary upheaval, run on Savings Banks. Government issues order limiting gold withdrawals for all funds at State Bank and branches.	SBH		Bernatzky 1928, 349.
NOR-1905	August 1905	Norway	Dissolution decision with Sweden leads to spike in uncertainty: "fairly large cash withdrawals at banksbanks had to resort to loans from Norges Bank".	BBEL		Gjedrem 2005, 4.
CAD-1906	1906	Canada	Fraudulent Ontario Bank is arranged to be taken over by Bank of Montreal, which guarantees deposits. Other banks in turn jointly guarantee Bank of Montreal (CAD 4.3M vol.). Royal Bank of Canada coordinates.	AHCI, BG, other	PRI-PRI	Ferrier 1913, 39ff.; Reinhart/Rogoff; Martin 2014, 5f.
EG-1907	January 1907	Egypt	Runs on banks ensue from January1907 (prior to NY troubles), including failure of Alexandria Bank. Stock exchange limits trading permits in April to curb speculation.	ORL		The Economist, April 27, 1907; Noyes 1909; Reinhart/Rogoff
IT-1907	August 1907	Italy	"Ramifera affair" and general sharp financial volatility: Banca d'Italia intervenes from autumn 1906 to support money markets, and over 1907 guarantees equity of sliding consortium (SBI), with private participation. Pledges to ensure general market liquidity. At least Lira 140M fiscal aid, of which 100M advance coupon payments.	BBEL, MLA, OLG	PRI-PRI (partly)	Bonelli 1982, 56ff; Valeria 2016, 15ff.; Reinhart/Rogoff
SWE-1907	September 1907	Sweden	Banks under strain since May 1907; Riksbank steps in as lender of last resort and discounts bills freely from	BBEL		Schoen 2000, 263f.; Reinhart/Rogoff; Grodecka-Messi,

			September 1907 (est. SEK 320M in extra support via domestic bills). At least 16 banks still allowed to fail.			Kenny, and Oegren 2021.
US-1907	October 1907	United States	Treasury shores up balances of New York City national banks amid Knickerbocker panic: US\$ 36M in gold. "Arrangement" between Treasury and large banks to facilitate cash disbursements to trust companies.	AHEL, other		Gorton and Tallman 2018, 69.
	October 1907	United States	New York Clearing House issues up to US\$75M in loan certificates from Oct.	BBEL	PRI-PRI	Gorton and Tallman 2018, 47.
NL-1907	October 1907	Netherlands	Severe spillover to Amsterdam market from Knickerbocker failure; "numerous failures and liquidations" but no evidence of relevant interventions.	NO/I		The Economist, October 19, 1907; Schularick and Taylor.
GER-1907	October 1907	Germany	Severe spillover of Knickerbocker crisis in Hamburg ("biggest crisis since 1857"); failure of Haller & Soehle Bank. No reported interventions.	NO/I		The Economist, October 26, 1907; Schularick and Taylor.
FRA-1907	October 1907	France	Banque de France discounts French commercial paper in return for own gold reserves, accepting 80M Francs in gold outflows to stabilize London and French markets. Additional domestic emergency lending from Banque de France, ca. 0.2% of GDP.	BBEL, MLA		Liesse 1909, 230f.; Reinhart/Rogoff; Leclercq 2010, 267; Rodgers and Payne 2014, 424ff

JP-1907	1907	Japan	Severe instability in aftermath of Russo-Japanese War. Bordo and Eichengreen (1999) report BoJ "interventions" into several banks, but exact nature unclear. No interventions reported in Tamaki (1995).	BBEL		Bordo and Eichengreen 1999, 65f.; Reinhart/Rogoff
SZ-1907	October 1907	Switzerland	Knickerbocker crisis spills over: multiple small banks fail. Newly-established SNB discounts freely, at comparatively low rates ("leaning against unruly waves").	BBEL		Bachmann, Schnyder, Weber 1932, 52, 62ff.
CAD-1906	October 1907	Canada	Government offers CAD 10M in emergency credit for banks amid panic spillover from U.S. (CAD 5.1M drawn).	BBEL		Martin 2014, 10f.
CL-1907	December 1907	Chile	Looming default of Mobiliario Bank. Government "grants facilities" to stem deposit runs: short-term public bill issuance forwarded to troubled banks.	BBEL		Financial Times, December 9, 1907; The Economist, December 21, 2907; Reinhart/Rogoff
MX-1907	1907-1908	Mexico	Spillover from U.S. volatility: intervention by National Bank of Mexico and Banco Central into Yucatan Banks, forced mergers and forced balance sheet clean-up.	RES		Conant 1910, 90f.; Reinhart/Rogoff
	1908	Mexico	Ca. Pesos 0.47M emergency lending by Banamex to Banco de Michocan and Banco de Campeche.	AHEL	PRI-PRI	Maurer 2002, 58f.

	June 1908	Mexico	Government establishes <i>Caja de Préstamos para Obras de Irrigación y Fomento de Agricultura</i> , capitalized with Pesos 50M, which aids banking system amid continued financial volatility. Direct purchases of bad loans.	BBAM, BBEL	SPV		Conant 1910, 97; Maurer 2002, 66ff.
	February 1908	Denmark	"Lending fund" for struggling banks established by Treasury and Nationalbanken, 20M crown volume.	BBEL	SPV		Svedsen and Hansen 1968, 377.
DK-1907	February 1908	Denmark	Failure of Freeholder's Bank, looming failure of Detailhandlerbank. Treasury and leading private banks provide guarantee for liabilities at both banks, 20M crown volume (50:50 split).	BG		PRI-PRI (partly)	Conant 1915, 300f.; Abildgren et al 2011, 6; Reinhart/Rogoff
ID-1908	April 1908	India	"Crop failures and excessive obligations to European banks". Indian government "freely offers" Sterling drafts on London to help merchants, drawing down London gold reserve. GBP 8M taken up by August, when crisis subsides.	BBEL			Conant 1915, 583ff.; Reinhart/Rogoff
CAD-1906	January 1908	Canada	Sovereign Bank asks for CBA member bank "open door liquidation" and advances, triggering multi-year liquidation process.	AHEL	ASSOC	PRI-PRI	Carr, Mathewson, and Quigley 1995, 1139f.
US-1909	September 1909	United States	Failure of Columbia Bank and Trust, largest bank in Oklahoma. Bank taken into bank board management, orderly liquidation. Oklahoma banks recap guarantee fund, fully cover deposits, and bear USD 580k losses.	AG, RES	SPV	PRI-PRI	Robb 1921, 43ff.; Warburton 1959, 30.

SZ-1910	1910	Switzerland	No reports of interventions in Bachmann, Schnyder, and Weber (1932) or others.	NO/I		Reinhart/Rogoff
CN-1910	July 1910	China	Multiple bank failures in Shanghai threatening wider crash: Chinese public authorities, Chamber of Commerce, and private banks jointly broker GBP 400,000 (Tls. 3.5M) foreign emergency loan for native banks. Shanghai Taotai guarantees loan. Separate Tls. 7M public assistance to Yen I-Pin banks.	BBEL, OLG	PRI-PRI (partly)	Financial Times, July 27, 1910; McElderry 1976, 105ff.; Reinhart/Rogoff;
UK-1911	August 1911	United Kingdom	Looming default of Yorkshire Penny Bank: Bank of England coordinates recapitalization and guarantee commitment from private banks: BoE contributes GBP 250,000 to guarantees.	AG, AHCI	PRI-PRI (partly)	Clapham 1958, II, 412.
GER-1911	September 1911	Germany	Agadir Crisis sparks severe bank runs in Berlin and stock market plunge. Reichsbank assists banks with "considerable resources", two banks in Goettingen fail. Exact extent is unclear, but estimated at "far above Mark 4M".	BBEL		Gooch and Temperley eds. 1932, 796ff.; Feldman 1993, 30.
EG-1911	September 1911	Egypt	Failure of Bank of Egypt, coupled with Italian invasion of Tripolis creates fears of major banking panic: private consortium, led by National Bank of Egypt, forms to ensure orderly liquidation of Bank of bank Egypt, and reimbursement of depositors, other creditors.	AG, OLG	PRI-PRI	Baster 1935, 77f.
CN-1910	October 1911	China	Revolution breaks out in October – sharp tightening of money, wave of capital flight to foreign banks. Nanking Mint ordered to mint extra ca. Chinese \$ 4M to ease money	DPM, MLA, other	PRI-PRI (partly)	McElderry 1976, 118f.

			tightness – restrictions on interest rates, lengthening of repayment dates.				
SZ-1912	July 1912	Switzerland	Looming default of Thurgauische Hypothekenbank: central bank coordinates CHF 60.6M in emergency loans, with private participation.	AHEL		PRI-PRI (partly)	Bachmann, Schnyder, Weber 1932, 415f.
AT-1912	November 1912	Austria	Austrian Central Bank lends freely in Bagehotian fashion, given bank volatility during First Balkan War. Ca. 400M crowns extra banknote issuance.	BBEL			Jobst and Rieder 2016, 146-149.
MX-1913	September 1913	Mexico	From September, various banks join to provide emergency assistance to stumbling Banco Central: Banamex provides Pesos 2.55M, others further Pesos 3.8M.	AHEL		PRI-PRI	Maurer 2002, 141.
	December 1913	Mexico	Bank runs focusing on London and Mexico Bank; bank holidays announced. Bank notes declared legal tender January 1914; "Guaranty Fund of the Fiduciary Commission" established to guarantee private notes (total 1910: Pesos 295M), financed by private contributions.	OLG, ORL, SBH	SPV	PRI-PRI (partly)	Banker's Magazine 3/1914, 403ff.; INEGI 1985, ii, 797; Reinhart/Rogoff
IN-1913	1913-1916	India	Recurrent bank failures, including Indian Specie Bank and Credit Bank of India, ca. GBP 300,000 of suspensions in Oct-1913 alone. Delayed regulatory response in new Companies Act. Reports of provincial bank assistance to weaker members via bill accommodation, credit easing.	AHEL		PRI-PRI	Financial Times, November 25, 1913; Reinhart/Rogoff
CAD-1914	January 1914	Canada	Bank of Vancouver receives emergency credits from CBA association, but bank liquidated by December.	AHEL	ASSOC	PRI-PRI	Carr, Mathewson, and

							Quigley 1995, 1141.
SZ-1914	March 1914	Switzerland	Collapse of Banca Popolare Ticinese: emergency loan of CHF 1.5M granted by SNB, but bank fails by March.	AHEL			Bachmann, Schnyder, Weber 1932, 416.
	June 1914	Switzerland	Looming default of Ersparniskasse Kanton Uri: Association of Swiss Kantonalbanks, and SNB jointly assist with CHF 5M. Erparniskasse survives and is restructured as Urner Kantonalbank.	AHEL	ASSOC (partly)	STOW	Bachmann, Schnyder, Weber 1932, 416f.
BEL-1914	July 1914	Belgium	Brussels stock exchange closed in late July, capital flight upon declaration of war. Banque de Reports, de Fonds Publiques et de Dépôts d'Anvers receives unspecified NBB help in split-up, amid fears of wider panic.	RES, SBH			Sprague 1915, 509; Reinhart/Rogoff; Buyst and Maes 2008, 169, 171.
	August 1914	Belgium	Belgian private banks form BEF 100M lending consortium upon German invasion, to provide mutual help.	BBEL	SPV	PRI-PRI	Crombois 1994, 21.
IRL-1914	July 1914	Ireland	Dublin stock exchange closed until January 1915.	SBH			Thomas 1986.
FRA-1914	July 1914	France	Paris stock exchange closed in late July.	SBH			Sprague 1915, 509; Reinhart/Rogoff

BRL-1914	August 1914	Brazil	Conversion Office closed upon war outbreak; Treasury lends 100,000 contos to banks directly; special commercial paper rediscount facility at Banco do Brazil established by 1915. State of San Paulo intervenes into Bchasp Bank, acquiring 30% stake (fully nationalized by 1926).	AHCI, BBEL, SBH	Triner 2000, 52f., 168; Baron, Verner, Xiong 2021.
EG-1914	August 1914	Egypt	Run on deposit banks upon war outbreak in Europe, capital flight; government decree on August 2 makes currency inconvertible and bank notes legal tender. National Bank of Egypt accommodates emergency liquidity upon application, meeting demand "with full sense of the public office required of them". Commercial bill moratorium, postponing debts to November; bank holidays enacted.	AHEL, DPM, ORL, SBH	Economic Journal 1915, 84ff.; Baron, Verner, Xiong 2021.
JP-1914	1914	Japan	Tokyo stock exchange remains open during war.	NO/I	Reinhart/Rogoff
NL-1914	July 1914	Netherlands	Amsterdam stock exchange closed from July, until February 9, 1915.	SBH	Jopp 2014, 3; Reinhart/Rogoff
GER-1914	July 1914	Germany	Stock exchanges closed to January 1918.	SBH	Fischer 2007, 146f.
UK-1914	July 1914	United Kingdom	BoE discounts liberally and supplies funds after war outbreak to cover acceptance bills due (ca. GBP 1.8M extra over Aug-Oct.); "general moratorium" on contracted bank payments (freezing deposits); moratorium for acceptance house bills in August via Postponement of Payments Act.	BBEL, DPM	Roberts 2013; Anson et al. 2017; O' Sullivan 2018, 111; Reinhart/Rogoff

US-1914	July 1914	United States	New York stock exchange closed Jul 31st amid war outbreak. Aldrich-Vreeland Act triggered which enables banks to issue own notes against 3% tax. Act is further amended in August to remove issuance limits, with USD 510M estra issuance to October 31st. New York Clearing House issues some USD 125M extra loan certificates. Treasury provides USD 500M for emergency loans upon application, particularly for state-charted banks and trust companies.	SBH, BBEL, ORL	PRI-PRI (partly)	Sprague 1915, 513, 517f; Wicker 2005, 44ff.; Silber 2014, 66ff.
ROM-1914	July 1914	Romania	Bucharest stock exchange closed to October 1919.	SBH		Stoenescu et al. 2014, 245.
RUS-1914	July 1914	Russia	Run on private banks upon war outbreak, massive deposit withdrawals. State Bank extends substantial emergency liquidity: est. at RUB 428M over Jul-Aug. alone.	BBEL		Bernatzky 1928, 374ff.
	July 1914	Russia	Multiple regional-level bank debt moratoria and deposit withdrawal limits announced, esp. in Polish provinces.	DPM, SBH		Bernatzky 1928, 374ff.
AT-1914	July 1914	Austria	Vienna stock exchange closed in late July. Central bank restricts convertibility of foreign FX. Moratorium on debt issued prior to August 1, 1914. Kronen 17M in private bank mutual emergency assistance to clear frozen contracts amid fears of broader panic.	AHEL, DPM, ORL	PRI-PRI (partly)	Sprague 1915, 509; Pressburger 1966, 282; Baltzarek 1973, 109.
	August 1914	Austria	Suspension of Bank Act to enable emergency assistance for state and banking sector. Extension of acceptable collateral, to include industrial equity.	BBEL, ORL		Pressburger 1966, 288, 297.

NOR-1914	August 1914	Norway	In August, Norway suspends gold standard, but stock markets are not closed. "Speculative mania" from 1915.	SBH	Knutsen 1991, 46ff.; Reinhart/Rogoff
PR-1914	August 1914	Peru	"Temporary" closure of major banks of issue and financial distress; decree of August 27, 1914, permits free minting of silver for 30 days to boost circulation.	MLA	Banker's Magazine, 5/1915, 574f.; Baron, Verner, Xiong 2021.
GRE-1914	August 1914	Greece	Fearing bank collapses, NBG fixes stock market prices of listed banks (and other companies): all private sector liabilities required to adjust; government suspends deposit withdrawals.	ORL, SBH	Eulambio 1924, 49ff.
TK-1914	August 1914	Turkey	Most international banks suspend payments from early August; domestic banks, including Imperial Ottoman as de facto central bank, restrict withdrawals.	SBH	Financial Times, August 14, 1914; Baron, Verner, Xiong 2021.
IT-1914	August 1914	Italy	Moratorium on debt payments and limits on deposit withdrawals as bank runs on several institutions ensue from August; Banca d'Italia supplies liquidity freely to reduce risk of bank failures.	DPM, SBH, BBEL	Toniolo 2018, 305f.; Reinhart/Rogoff
ARG-1914	August 1914	Argentina	Severe banking crisis: Banco de la Nacion is equipped with LLR powers via emergency Rediscount Law (Ley 9479), engaging in heavy rediscounting below market rates. Est. Pesos 72M extended in 1914. Bolsa stock market closed in August, September.	BBEL, SBH	Della Paolera and Taylor 2001, 174ff.; Nakamura and Zarazaga

							2001; Regalsky 2015, 53f.
ES-1913	September 1914	Spain	Barcelona stock exchange closed in 1914; in 1914 widespread bank runs, and Banco de Espana provides wider system liquidity after suspension of Credito de la Union Minera, which receives direct Reales 20M loan.	BBEL, SBH			Alonso Olea 2002, 326f.; Martin-Acena 2012, 104f.; Schularick and Taylor 2012.
CL-1915	1915	Chile	Budget strains and geopolitical volatility, but no evidence of bank sector interventions.	NO/I			Reinhart/Rogoff
UK-1914	1915-	United Kingdom	During War, Bank of England guarantees various acceptance bill issuances, including GBP 1.6M Anglo-Austrian bills to "save a panic".	OLG			Jones 1993, 228.
AT-1916	1916	Austria- Hungary	Government establishes "Geldinstitut-Zentrale" to "protect the interest of the Hungarian financial institutions": public-private corporation is allowed to provide emergency assistance, discount assets, or arrange liquidations/amalgamations of banks.	BBEL, RES	ASSOC	PRI-PRI (partly)	LoN 1931, 172.
CN-1916	May 1916	China	After government defaults on loans made by Bank of China, banking consortium props up Bank of China to avoid full government intervention.	AHEL		PRI-PRI	Ji 2003, 104.
JP-1916	December 1916	Japan	Securities market collapses in Osaka and Tokyo following German peace proposal. Industrial Bank and Bank of Japan	BBEL			Tamaki 1995, 122; Reinhart/Rogoff.

			provide emergency lending to stock markets and brokers, up to JPY 15M (2x).			
US-1917	July 1917	United States	Upon U.S. entering of World War I, amendment to Federal Reserve Act (1916) allowing member banks wider discounting, with preferential discount rates. Non-member bank notes with proper indorsement conditionally accepted.	BBEL		Bordo and Wheelock 2010, 75, 97.
	July 1917	United States	Federal Reserve pledges "reasonable accommodation" to savings banks and trust companies in case of deposit withdrawals.	AG		Federal Reserve Bulletin 1917, 497ff.
CN-1917	October 1917	China	Expropriation and liquidation of Deutsch-Asiatische Bank (DAB) after Chinese declaration of war against Germany.	RES		Moazzin 2015, 57ff.
RUS-1917	December 1917	Russia	Full nationalization of banking system following Bolshevik Revolution. "Small depositors" to be "fully protected".	AG, RES		Bunyan and Fisher 1934, 323.
SZ-1917	1917	Switzerland	Joint rescue of Hypothekenbank Basel and Schweizer Bodencredit-Anstalt via de facto SNB guarantees on CHF 37M portfolio, with lead in rescue from private banks.	AHEL, OLG	PRI-PRI (partly)	Bachmann, Schnyder, Weber 1932, 417.
PT-1919	1919-1920	Portugal	Bank of Portugal makes few direct loans to weak institutions, including GBP 100,000 loan in 1919 to BEP (defunct by 1925).	AHEL		Reis 1995, 484; Reinhart/Rogoff
NOR-1919	1919	Norway	At present, no evidence of interventions distinct of 1921 (s.b.).	NO/I		Baron, Verner, Xiong 2021.

	1920	United States	Cotton price bubble bust and financial panic: Atlanta Fed deploys separate liquidity assistance in district, "rushing cash to the afflicted region".	BBEL			Richardson and Troost 2006, 6.
	December 1920	United States	North Dakota bank runs: private banker convention agrees to pool resources to stem heavy withdrawals.	AHEL		PRI-PRI	Dana ed., 1920, 2284.
US-1920	1921	United States	Fed authorizes reserve banks to discount paper for non- member banks amid bank stress, clear uptick in total bank discounting over 1920-1 amid wider stress.	BBEL			Tallman 2010, 105ff.
	July 1921	United States	Scandinavian American Bank of Seattle crash (USD 15M deposits): SF Fed oversees restructuring attempts - bailing in stakeholders (USD 1M), extra levy of 1.5% of deposit vols. of other banks in guaranty system.	AG, RES	SPV	PRI-PRI	Preston 1922, 352ff.
IN-1920	September 1920	India	"Imperial Bank of India Act" passed after period of severe instability over 1913-18, leading to bank amalgamation and founding of central bank.	ORL			Parameswaran 2001, 7; Reinhart/Rogoff
SZ-1921	November 1920	Switzerland	"Extraordinarily high" emergency credit by SNB to Neuenburger Kantonalbank, to take over troubled Caisse d'Eparge de Neuchatel (est. CHF 107M).	AHEL			SNB 1921, 18; Bachmann, Schnyder, Weber 1932, 417f.
ES-1920	December 1920	Spain	Banco de Barcelona fails. Bank of Spain first resists broader sector aid, then establishes "limited line of credit" after spreading bank runs. Peak of Pesetas 102 M in central bank loans.	AHEL			Martin-Acena 1995, 509; Reinhart/Rogoff; Blasco-Martel

						and Triay 2016, 327ff.
ICE-1920	1920	Iceland	Íslandsbanki and Landsbanki are bailed out via government guarantee on foreign FX loan amounting to 8% of GDP.	BG		Einarsson et al. 2015, 23; Baron, Verner, Xiong 2021.
JP-1920	1920-1927	Japan	Recurrent bank runs and failures in Japan: BoJ "special loan policy" to act as selective LLR provider and mitigate short-term interest rate spikes, providing active consolidation support in industry.	AHCI, RES		Okazaki 2007; Reinhart/Rogoff.
MX-1920	December 1920	Mexico	Compania Bancaria collapse, and runs on Banque France: government approves emergency loans to latter, but refusal to lend to others (i.e. Mercantile Banking Company of Mexico). Total of Pesos 4.6M Treasury loans. New runs in 1922, prompting Banamex emergency assistance. xviii	AHEL		Merchant 2002, 117; Gomez- Galvariatto 2014, 23-28; Reinhart/Rogoff
FIN-1921	March 1921	Finland	Looming collapse of Town Mortgage Fund: Bank of Finland jointly guarantees Fin Markka 7M exchange rate losses, together with Kansallis Bank and Suomi Insurance. Town Mortgage still fails by Jan. 1922. Some central bank and Treasury lending to Mortgage Society of Finland.	AHEL, OLG	PRI-PRI (partly)	Reinhart/Rogoff; Kuusterae and Tarkka 2011, I, 536f.
NOR-1921	1921	Norway	Joint liquidity provisions by Norges Bank, private banks, and Treasury, at least NKR 200M in official provision over 1921-3 according to Knutsen (1991, 57f.);	BBEL	PRI-PRI (partly)	Knutsen 1991, 57ff.; Reinhart/Rogoff

			Centralbanken/Foreningsbanken put under public administration by 1923.				
	1921-22	Norway	Jacobsen (1924, 42) reports granting of NKR 80M in bank guarantees, equally shared between Treasury, Norges Bank, and private banks.	AG		PRI-PRI	Jacobsen 1924, 42.
	March 1922	Norway	Jacobsen (1924, 42) reports NKR 30M capital injection into Norges Bank by government.	АНСІ			Jacobsen 1924, 42.
SZ-1921	1921	Switzerland	Ongoing bank instability: SNB grants special CHF 6M support for Schweizerische Bondenkreditanstalt.	AHEL			Bachmann, Schnyder, Weber 1932, 417f.; Kohli ed. 2007, 90f.; Reinhart/Rogoff
CN-1921	1921	China	Banque de Industrielle de Chine on brink of collapse, suspending convertibility. Chinese domestic banks come to rescue by discounting its notes.	AHEL		PRI-PRI	Horesh 2009, 35.
DK-1921	1921-1924	Denmark	Nationalbanken (central bank) by 1921 begins to help banks ad hoc, to address insolvency as well as illiquidity. Includes support for bank equity prices, and provision of capital for new private bank launches. Extra public aid Dkr 241M over 1922-1925.	AHCI, BBEL			Hansen 1991, 38ff.
	1922	Denmark	Country's largest bank, <i>Landmandsbanken</i> , on verge of bankruptcy. State provides emergency liquidity, and establishes "reserve fund", co-funded with private banks.	AHCI, BG	SPV	PRI-PRI (partly)	LoN 1931, 95; Hansen 1991, 36f.; Sjoergen

			Full de facto state deposit guarantee on Dkr 1BN deposits.xix			and Iversen 2019, 180.
	November 1921-1922	Italy	Banco di Roma rescued by Banca d'Italia. Others (i.e. Banca Italiana di Sconto) are granted intermitted advances, but ultimately fail. Up to 3.36BN lira advances to 1926 via Banda d'Italia and Sezione Sepciale Autominia.	AHCI, AHEL		BdI 1922, 33ff.; Toniolo 1978, 289f.; Toniolo 1995, 299.
IT-1921	December 1921	Italy	Banca d'Italia refuses rescue of Banca Italiana di Sconto, but government grants one-year moratorium to creditors of bank and all joint-stock companies and cooperative credit companies with capital >5m lire.	DPM		The Economist, January 1922.
SWE-1922	March 1922	Sweden	After major credit losses, public fund <i>Kreditkassan</i> established, making 83M SEK in direct bank recapitalizations over 1921-2; additional 77M SEK refinancing of associated portfolio companies. Riksbank/Treasury provide 70M SEK in guarantees.	BBCI, OLG	SPV	LoN 1931, 250; Oegren 2018, 63ff.; Sjoegren and Iversen 2019.
NL-1921	April 1922	Netherlands	DNB refuses to intervene during high-profile bank failures (i.e. Marx & Co.) – but Rotterdam banks (R. Mees and Zoonen, and Rotterdam Bank Assoc.) join to insure full liabilities (Guilders 46.5M) upon Marx & Co. liquidation. Westerhius and van Zanden (2018, 252): DNB does in fact help Marx & Co. with Guilders 27M.	AHEL, BG, RES		Financial Times, April 4 & 8, 1922; Reinhart/Rogoff; Colvin, de Jong, and Fliers 2015; Westerhius and van Zanden 2018, 252.
UK-1922	August 1922	United Kingdom	Special BoE advances (GBP 2.4M) to five acceptance houses impacted by WWI bill liabilities. Treasury extends	AHEL		O'Sullivan 2018, 113ff.

			guarantee on advances. Houses with German links are refused assistance.				
	December 1922	United Kingdom	Rescue of Huths: BoE facilitates takeover of Huths by Koenig Bros., providing loan to Koenig and guaranteeing against foreign claims on Huths. Huths bad assets transferred to SPV. Ca. GBP 2M in public aid.	BBAM, AHEL, OLG	SPV		O'Sullivan 2018, 124f.
JP-1922	September 1922	Japan	After earthquake, government issues debt moratorium and organizes discounting program for "Earthquake Bills": JPY 430.8M extra discounting over 1923-4.	BBEL, DPM			Shizume 2018, 136ff.
MX-1922	October 1922	Mexico	Renewed banking crisis. At least Pesos 793,513 in emergency loans to Banco Credito Espanol and Casa Bancaria Zambrano e Hijos. Liquidation of Banco Frances.	AHEL, RES			Merchant 2002, 126ff.
CAD-1923	March 1923	Canada	Government of Quebec issues CAD 15M in bonds to subsidize merger between Banque du Hochelaga and ailing La Banque Nationale. CAD 3M line of credit by CBA.	AHEL		PRI-PRI (partly)	Carr, Mathewson, and Quigley 1995, 1148f.
NOR-1923	March 1923	Norway	"Bank Administration Act" passed which enables Bank of Norway to place commercial banks into "protective custody" upon application, which involves review of sustainability and possible capital injection or liquidation. By end-1924, 34.8% of system deposits under government administration (ca. NOK 4.89BN).	BBCI, BG, ORL			LoN 1931, 209ff.; Nordvik 1995, 445f.

	May 1923	Norway	Selective deposit guarantee for new depositors at Centralbanken for Norge and Foreningsbanken to protect foreign liabilities.	AG	Nordvik 1995, 446.
BRL-1923	1923	Brazil	No crisis or intervention mentioned in Triner (2000).	NO/I	Reinhart/Rogoff
GRE-1923	June 1923	Greece	Bank panic in Athens: NBG advances at least Dr. 35M to stock brokers, lends freely to banks (Dr. 700-1000M related to "market needs"). Government then aids NBG after "serious illiquidity", including via forced loans.**	BBEL	Eulambio 1924, 158ff.; Dertilis and Costis 1995, 462.
PT-1923	1923	Portugal	"Multiple bank failures occurred". Bank of Portugal "failed to provide the temporary accommodation to bankers which would have enhancedstability of the financial system".	NO/I	Reis 1995, 486; Reinhart/Rogoff
CZK-1923	1923	Czechoslova kia	At present, no crisis interventions identified.	NO/I	Baron, Verner, Xiong 2021.
	July 1923	Columbia	Severe deposit runs, first affecting Banco Lopez: government tries to buy off assets (bank building), but bank has to liquidate.	АНАМ	Caballero Argaez and Montoya 2006, 75f.
COB-1923	July 1923	Columbia	Founding of Banco de la Republica is brought forward to allow emergency lending, which is undertaken via discounting to commercial banks from July 21 in various regions, calming depositors.	BBEL, other	Caballero Argaez and Montoya 2006, 75f.

TW-1923	September 1923	Taiwan	Bank of Taiwan tries to bail out Suzuki & Co. and buys bills of Taiwanese corporates at BoJ discount window in the context of earthquake.	MLA	Market (partly)		Shizume 2018, 137-139; Reinhart/Rogoff
CN-1923	1923-1925	China	Young (1971), R/R's source, and others do not mention interventions, though many banks fail.	NO/I			Reinhart/Rogoff
AT-1924	April 1924	Austria	Public-private establishment of assistance committee to save Depositbank and others, central bank provides 21M Goldkronen in funds.	BBEL	SPV	PRI-PRI (partly)	Pressburger 1966, 392f.
NL-1924	July 1924	Netherlands	Robaver crash: DNB agrees to 50M guilder emergency loans, with Treasury supplying 10M guilder to stabilize equity price via intermediary bank. Subsequent internal portfolio restructurings.	AHEL	Market (partly)		Colvin 2014, 322ff.
MX-1924	1924	Mexico	Various failed structural reform efforts amid continued banking volatility. Banxico founded in 1925, and new banking laws 1925.	ORL, RES			Maurer 2002, 170ff.; Baron, Verner, Xiong 2021.
AUS-1924	October 1924	Australia	During liquidity squeeze, Commonwealth Bank offers up to A.Pounds 15M in bank loans, of which A.Pounds 2.8M are taken out.	BBEL			Fitz-Gibbon and Gizycki 2001, 39.
SWE-1925	1925	Sweden	Public <i>Kreditkassan</i> takes 50% stake in Goeteborgs Handelsbanken.	AHCI, RES			Sjoegren and Iversen 2019.

IT-1925	1925	Italy	Bank of Italy advances 500M Lire to bank consortium to buy industrial stocks and stabilize their own blue chip portfolios.	BBAM, MLA	Market	Toniolo 1995, 303.
CAD-1925	June 1925	Canada	House of Commons decides to cover 35% of public liabilities of Home Bank after fraudulent behavior and loss of trust, despite absence of deposit insurance (CAD 5.45M).	AG, OLG		Carr, Mathewson, and Quigley 1995, 1142f.
POL-1924	November 1925	Poland	Amid banking crisis, <i>Fundusz Pomocy</i> (bank investment fund) established to inject up to 65M Zloty into systemic banks; 1924 Banking Law administers liquidations.	BBCI, RES	SPV (partly)	Landau and Morawski 1995, 363f.
ES-1920	1925	Spain	Bank of Spain assists <i>Banco Central</i> , refuses assistance to others.	AHEL		Martin-Acena 1995, 513f.
BEL-1925	1925-1926	Belgium	No crisis or intervention reported in Van der Wee (2012) and others.	NO/I		Reinhart/Rogoff
NL-1925	December 1925	Netherlands	Secret Guilders 10M state guarantee for ACBM after director threatens to resign amid instability. By 1927, forced merger with Boazbank to create NMB.	OLG, RES		Colvin 2011, 219.
GER-1925	1925	Germany	Default of Girozentrale: At least RM 7.1M assistance from DGZ and Bavarian State Treasury.	AHEL	ASSOC (partly)	Reinhart/Rogoff; Fischer 2007, 168.

BRL-1926	1926	Brazil; Chile	Full nationalization of Banespa and recapitalization in Brazil.	AHCI			Triner 2000, 168; Reinhart/Rogoff
CB-1926	1926	Cuba	Bank runs in Cuba: Atlanta Fed deploys liquidity assistance given branch office presence, "rushing cash to afflicted region".	BBEL			Richardson and Troost 2006, 6.
UK-1926	September 1926	United Kingdom	Bank of England arranges merger between BTC and Anglo-Austrian Bank, and recaps bank with GBP 0.6M.	AHCI, RES		STOW ^{xxi}	Jones 1993, 228ff.
AT-1926	November 1926	Austria	Centralbank der deutschen Sparkassen defaults: government first announces full deposit insurance, but backtracks later; establishment of Schilling 80M public-private "guarantee fund". 3-month moratorium approved.	DPM, OLG	SPV	PRI-PRI (partly)	Pressburger 1966, 412f; Harrer 2011.
	December 1926	Austria	Default of Postsparkasse: Parliament passes special law to compensate depositors.	AG			Pressburger 1966, 413.
TW-1927	1927-1928	Taiwan	Assistance to Bank of Taiwan from Bank of Japan after emergency Japanese government guarantee for up to JPY 200M. Collateral requirements waived.	AHEL, OLG, ORL			Johnes 1928, 76f.; Reinhart/Rogoff
TK-1927	1927	Turkey	Is Bankasi ("Business Bank") in "precarious" situation: government-mandated takeover of National Credit Bank to stabilize situation.	RES		STOW (partly) xxii	Keyder 1981, 105.

JP-1927	March 1927	Japan	Banking Act of 1927 is passed: introducing minimum capital requirements, bank amalgamation, oversight procedures.	ORL, RES		Shizume 2011, 215f.
	April 1927	Japan	Three-week moratorium, April 1927. Peer's Bank receives emergency credits via Bank of Japan.	AHEL, DPM		Johnes 1928, 76ff.
	April 1927	Japan	Consolidation of smaller banks into Showa Bank, with private capital contributions.	AHCI, RES	PRI-PRI	Johnes 1928, 76ff.
	May 1928	Japan	Diet approves JPY 500M guarantee program for financial institutions, administered via BoJ advances.	OLG		Shizume 2009, 3.
IT-1928	1928	Italy	Bank of Italy grants liquidity over two-year period to <i>Banca Agricola Italiana</i> – by 1930 liquidation is arranged.	AHEL, RES		Toniolo 1995, 306f.
DK-1928	April 1928	Denmark	Renewed losses and default fears over Landsmandsbank: April 1928 Law authorizes government to provide Kronor 170M in fresh liquidity aid and 50M in capital injections.	AHCI, AHEL		LoN 1931, 95.
FIN-1928	June 1928	Finland	Emergency lending granted to Atlas Bank. By 1929, bank put into liquidation with debts and assets transferred to Bank of Finland.	AHEL		BoF 1929, 11; Kuusterae and Tarkka 2011, I, 539f. xxiii
CN-1928	October 1928	China	Chinese government recaps <i>Bank of China</i> , to gain 20% stake.	АНСІ		Ji 2003, 176.

SZ-1928	December 1928	Switzerland	Zurich banks Escher Freitz & Co., Wolfensberger & Widmer collapse. Other banks come under pressure: banks around Union Financiere form syndicate assisting Diskontbank, buying shares est. at least CHF 6.1M.	AHCI		PRI-PRI	WSJ, December 18, 1928; Baumann 2007, 143.
IT-1930	1929	Italy	Bank of Italy grants liquidity to "some" ailing Catholic banks, assists in merger or liquidation efforts.	AHEL, RES			Toniolo 1995, 306.
BRL-1929	1929	Brazil	Treasury declares two-week bank holiday in October 1930.	SBH			Triner 2000, 178; Reinhart/Rogoff
GRE-1931	June 1929	Greece	Banking troubles: guarantee syndicate for Bank of Thessaly, incl. Bank of Greece.	AG, OLG	ASSOC	PRI-PRI (partly)	Loizos 2011, 7.
US-1929	July 1929	United States	Florida bank runs related to fly invasion, crop failures. Federal Reserve Bank of Atlanta "rushes" cash to Florida by plane (ca. USD 5M), alleviating runs.	AHEL			Dana ed., 1929, 422.
GER-1929	August 1929	Germany	FAVAG Insurance-Banking group collapses: pressure on Reichsbank to intervene, but support remains limited to assisting in orderly takeover by Allianz. Private banks provide guarantees on part of liabilities (up to RM 100M).	RES, OLG		PRI-PRI	Feldman 2002, 57ff.
COB-1931	December 1929	Columbia	After plunge of Columbian bonds in New York and domestic market rout, from late 1929 to late 1931 "massive" emergency discounting by commercial banks at Banco de la Republica.	BBEL			Caballero Argaez and Montoya 2006, 81, 86.

IN-1929	1929-1931	India	At present, no indications of interventions.	NO/I		Reinhart/Rogoff
ICE-1930	1930	Iceland	Bank volatility – Islandsbanki receives Treasury loan, but as losses spiral, remaining main private bank is taken over by new state-owned entity (<u>Búnaðarbanki Íslands</u> /Útvegsbanka). Full state guarantees for new state banks.	AHEL, OLG, RES		Kjartansson 2011; Einarsson et al. 2015; Baron, Verner, Xiong 2021.
BUG-1930	1930	Bulgaria	State "tries" to save deposits in nineteen failed private banks, transfers assets into new entity, Bulgaria Credit.	AG, BBAM		Berov 1995, 390.
CAD-1930	1930	Canada	Kryzanowski and Roberts (1993) argue multiple Canadian banks are insolvent from 1930, survive through "implicit public guarantees". Weyburn Bank forced merger 1931.	AG, RES		Kryzanowski and Roberts 1993.
GRE-1931	January 1930	Greece	Liquidity support for Bank of Industry by Bank of Greece to prevent default; afterwards further support by BNG for bigger banks; small banks allowed to fail.	AHEL		Dertilis and Costis 1995, 465; Loizos 2011, 7.
ETH-1930	August 1930	Ethiopia	Nationalization of Bank of Abyssinia (formerly subsidiary of National Bank of Egypt).	AHCI		Baster 1935, 74.
FRA-1930	November 1930	France	First French banking panic: Bank Adam fails, triggering further runs. Depositors are bailed out, and Banque d'Alsace et de Lorraine receives FRF 559M emergency liquidity from Banque de France, and FRF 910M from Treasury. Later CIC purchases good assets, liquidates Bank.	AG, AHEL, AHAM, RES	PRI-PRI (partly)	Lacoue-Labarthe 2005, 637f.

IT-1930	February 1931	Italy	Secret 330M Lira loan by Treasury and Banca d'Italia to <i>Credito Italiano</i> . Semi-public holding company established to take over troubled industrial assets from banks (IRI/Societa Finanziaria Italiana).	AHEL, BBAM	SPV		League of Nations 1935, 68; Toniolo 1995, 308.
POL-1931	March 1931	Poland	State decree enables direct capital injections, loans, state guarantees, or relief from obligations to big private sector banks. By 1934, 140M Zlotys in state support disbursed. Smaller banks fail.	BBCI, OLG, MLA			Landau and Morawski 1995, 367.
ES-1931	April 1931	Spain	Bank of Spain provides broad LLR assistance during deposit run, discounting all eligible paper.	BBEL			Martin-Acena 1995, 517.
ARG-1931	April 1931	Argentina	Banco de Nacion allowed to rediscount commercial paper from other banks at Caja de Conversion, amid banking panic. Volume exceeds Pesos 100M by May 1931.	BBEL			LoN 1931, 352; Bernanke 2000, 91; Reinhart/Rogoff
	April 1931	Australia	Commonwealth Bank aids Primary Producers Bank of Australia via unsecured overdrafts and loans, pounds 395k. Ca. pounds 3m assistance to Government Savings Bank.	AHEL			Fitz-Gibbon and Gizycki 2001, 40ff.
AUS-1931	May 1931	Australia	Government gives blanket guarantee to Commonwealth Bank amid withdrawals at Savings Bank division.	BG		STOW	Fitz-Gibbon and Gizycki 2001, 45f.; Reinhart/Rogoff

	May 1931	Austria	Credit-Anstalt crisis: Austrian National Bank lends indirectly to bank via "cross deposits", and provides AS 400M in direct loans to mortgage banks.	BBEL			Weber 1995; Aguado 2001; Reinhart/Rogoff
AT-1931	May 1931	Austria	160M Schilling capital injection into Creditanstalt, with 30M participation from Rothschild. Full credit guarantees (also including foreign creditors by June).	AHCI, OLG		PRI-PRI (partly)	Pressburger 1966, 431.
	June 1931	Austria	Further 30M Schilling credit to Creditanstalt. Treasury by 1932 takes over S 996M in Creditanstalt obligations, to domestic and foreign creditors.	AHEL		STOW (de facto)	JNS 1933, 708; Pressburger 1966, 436.
GER-1931	June 1931	Germany	Spillover from Austrian banking crisis: Reichsbank discounts bills freely until gold reserve position threatened in mid-1931. Treasury gives deposit guarantee for Danat bank.	BBEL, AG			Schnabel 2004; Wixforth 2011.
MX-1931	July 1931	Mexico	General suspension of payments after run on Credito Espanol de Mexico and others.	SBH			Bernanke 2000, 92; Reinhart/Rogoff
HUG-1931	July 1931	Hungary	In Dec., Foreign Creditors Fund established, which covers foreign mortgage debt service for domestic banks. Bank holidays and foreign creditor standstill. HNB meets bank discount demands (est. Pengo 240M over 2H-1931).	BBEL, SBH, DPM	SPV		League of Nations 1935, 62; Reinhart/Rogoff; Macher 2019.
GER-1931	June 1931	Germany	Reichsbank meets heavy liquidity demand by banks given capital flight from June 1931. Until bank holidays, RM 1.5BN increase in "Wechsel" assets. Various additional ad	BBEL	SPV	PRI-PRI (partly)	Born 1967, 65ff.

			hoc emergency lending decisions, including at least RM 374M in liquidity assistance to Dresdner and Hallesche/Kulisch via RKG, RM 50M to Landesbank der Rheinprovinz. Schnabel (2009) and others: Reichsbank discounting overwhelmingly bailout/emergency funding.xxiv				
	June 1931	Germany	RM 500M private guarantee syndicate for Danat Bank/Golddiskontbank, with equivalent discounting window for participating banks. Government coestablishes "Akzept- und Garantiebank" which underwrites bank drafts, making them eligible for discount.	MLA, OLG	SPV	PRI-PRI	Hardach 1995, 285; Schnabel 2009; Wixforth 2011, 78ff.
	July 1931	Germany	RKG assumes 92.5% equity stake in Dresdner, at instructions and financed by Treasury. Further capital injections via Deutsche Golddiskontbank.	АНСІ			Hardach 1995, 285; Schnabel 2009; Wixforth 2011, 78ff.
	July 1931	Germany	Reich Treasury guarantees all Danat liabilities, including deposits, but excluding liabilities vis-a-vis personally liable owners and those associated with corresponding Danat credits. Ca. RM 1.2BN volume.	AG, OLG			Born 1967, 96, 105ff.
	July 1931	Germany	Bank holidays announced, stock exchanges closed to April 1932.	SBH			Born 1967, 99.
BEL-1929	July 1931	Belgium	Threat of default at Noorderbank and Goldzieher & Penso: NBB grants BEF 40M emergency credits, despite doubts over solvency.	AHEL			Van der Wee and Tavernier 1975, 259f.

	December 1931	Belgium	From late 1931, NBB engages in more systematic emergency lending given liquidity crunch: BEF 500M to Banque Diamantaire Anversoise.	BBEL			Van der Wee and Tavernier 1975, 261f.; Buyst and Maes 2008b, 13f.
	July 1931	Switzerland	Private banks form "guarantee syndicate" to enable mutual discounting of assets not accepted by the SNB, after July 1931 emergency laws in Germany freeze Swiss assets.	OLG	SPV	PRI-PRI	Bachmann, Schnyder, Weber 1932, 302.
SZ-1931	July 1931	Switzerland	Federal Council deposits CHF 20M at Diskontbank to provide assistance after failure of Banque de Geneve. Guaranteed by Unifi and BDC.	AHEL		PRI-PRI (partly)	Baumann 2007, 157ff.
	1931	Switzerland	Three major Swiss banks require direct government/SNB assistance amid crash, including <i>Swiss Volksbank</i> (SVB) for CHF 100m – de facto nationalizations.	АНСІ			Meier, Marthinsen, and Gantenbein 2013; Reinhart/Rogoff
LAT-1931	July 1931	Latvia	Bank runs on Bank of Liepaja and Riga International Bank: special law of July 21 restricts deposit withdrawals to 5% of total volume per week - in effect until September 1933.	SBH			Reinhart/Rogoff; Karnups 2012, 30.
UK-1931	July 1931	United Kingdom	BoE aids Lazard, which is at brink of bankruptcy: GBP 4.5M direct loans to Lazard and to Pearson & Sons, for latter to increase investment.	AHEL		PRI-PRI (partly)	O'Sullivan 2018, 209.
UK-1931	July 1931	United Kingdom	Following German and Austrian troubles, run on London merchant banks ensues: in addition to individual assistance (i.e. Pearsons, ASAB), BoE provides emergency liquidity (ca. GBP 30M) and allows rediscounting of German	BBEL			Accominotti 2012, 28ff.

			Standstill Bills by banks (Vol.: ca. GBP 53M in London by mid-1931).			
	September 1931	United Kingdom	BoE aids ASAB with GBP 3M loans, with additional private participations. By 1936, ASAB taken over by BOLSA, with BoE writing down loans.	AHEL	PRI-PRI (partly)	O'Sullivan 2018, 209.
AT-1931	September 1931	Austria	Stock exchange closed amid extreme volatility. In effect to October 27 th .	SBH		Pressburger 1966, 442.
AUS-1931	September 1931	Australia	National Bank of Australasia aids Queensland Deposit Bank during deposit run, with pounds 50,000 loan.	AHEL	PRI-PRI	Fitz-Gibbon and Gizycki 2001, 41.
FIN-1931	September 1931	Finland	Crash of Maakuntain Paaki ("Provincial Bank"): Bank of Finland grants Maarkan 40M emergency loan, and jointly subscribes to Maarkan 60M new shares with Kansallis. Support proves insufficient and Maakuntain is taken over by KOP with further Bank of Finland aid.	AHCI, AHEL, RES	PRI-PRI (partly)	Ikonen, Autio, and Elonen 1992, 70; Reinhart/Rogoff; Kuusterae and Tarkka 2011, I, 540f.
FRA-1930	September 1931	France	Run on BNC, looming crash: Banque de France initially provides FRF 556M, guaranteed by Treasury. Private support syndicate established under Treasury guidance. In October, BdF commits up to FRF 4BN emergency liquidity, private syndicate additional FRF 1.9BN to insure deposits. By Feb-1932, BNC liquidated.	AHEL, OLG, RES	PRI-PRI (partly)	Lacoue-Labarthe 2005, 651.

CN-1931	1931	China	BoC provides various emergency lending lines over 1930- 1932 amid bank runs: to Sinhua Trust Savings in 1930 (with BoCOM), to SHCS in 1931, and to National Industrial Bank of China in 1932.	AHEL	P	PRI-PRI	Peng 2007, 212; Reinhart/Rogoff
DK-1931	1931	Denmark	Capital injections and liquidity assistance from Nationalbank and government sources to several large banks, including Landmandsbanken,	AHCI, AHEL		STOW (partly)	Abildgren et al 2011, 6; Reinhart/Rogoff
TK-1931	1931	Turkey	Turkish Central Bank established June 1931 amid financial volatility.	ORL			Reinhart/Rogoff
EST-1931	1931	Estonia	Temporary moratorium on bank debt declared 1931-2; government interventions via National Mortgage Bank, incl. in <i>Krediitpank</i> (de facto nationalized until 1934).	AHCI, DPM		STOW (partly)	League of Nations 1935, 25.
ROM-1931	July 1931	Romania	"Special Protection Scheme" implemented while consolidation and restructuring efforts ensue. Vorovenci (2015) suggests Lei 1.58BN rediscount support from central bank to Marmorosh to 1930. Purchase of doubtful assets.	AHEL, BBAM, BG			League of Nations 1935, 96ff.; Blejan, Costache, and Aloman 2009, 20; Reinhart/Rogoff
ES-1931	July 1931	Spain	Failure of several Spanish banks: Bauer & Cia relies on heavy BdE assistance leading up to default (ca. 10M pesetas), as well as personal Rothschild emergency loan	AHEL		PRI-PRI (partly)	Jorge-Sotelo 2019, 219ff.

	1931	Spain	Private sector bailout of one savings bank, orchestrated via <i>CECA</i> (Confederation of Spanish Savings Banks).	AHCI	ASSOC	PRI-PRI	Martin-Acena 1995; Reinhart/Rogoff
TN-1931	1931	Tunisia	At present, no indications of interventions.	NO/I			Reinhart/Rogoff
CL-1931	1931	Chile	At present, no indications of interventions.	NO/I			Baron, Verner, and Xiong 2021.
NL-1931	September 1931	Netherlands	Nederlandsche Bank suffers substantial Sterling FX losses after exit from gold in London (ca. 30M guilders); government provides de facto recap, covers losses.	AHCI			De Vries 1994, 727; Baron, Verner, Xiong 2021.
NZL-1931	January 1933	New Zealand	Financial sector volatility after Sterling exit from gold; Bank Indemnity Act of 1933 guarantees bank FX losses. Originally planned GBP 4M guaranteed, but actual funds accumulated ca. 9x higher (Hawke: GBP 36.2M).xxv	OLG			Tocker 1934; Hawke 1973, 24; Baron, Verner, Xiong 2021.
PR-1931	1931	Peru	At present, no indications of interventions.	NO/I			Baron, Verner, Xiong 2021.
IT-1930	October 1931	Italy	1BN Lira loan by Treasury and Banca d'Italia to <i>Banca Commerciale</i> . Semi-public holding company (<i>Sofinfit</i>) takes over industrial assets from <i>Banca Commerciale</i> , after capital injection from Banca d'Italia.	AHEL, BBAM	SPV (partly)		Toniolo 1995, 309.

GRE-1931	November 1931	Greece	Bank of Greece acts as LLR to multiple banks following instability from German banking crisis spilling over, BoG receives aid including USD 5M loan from NBG (=500M drachmas). Ca. 858.9M drachmas extra central bank lending to private sector to end-1932.	BBEL			Mazower 1991, 154ff.; Dertilis and Costis 1995, 467; Reinhart/Rogoff
POL-1931	1931-1932	Poland	Bank of Poland de facto covers deposit withdrawals at major banks via "indirect credits", through 1934ff.	BBEL			League of Nations 1935, 90; Reinhart/Rogoff
PT-1931	1931-1932	Portugal	Support given for "too big to fail" <i>Banco Nacional Ultramarino</i> . Smaller banks fail.	AHEL, AHCI			Reis 1995, 492f.
SWE-1931	1931-1932	Sweden	Krueger crisis: emergency loans from Bank of Sweden (BoS), guaranteed via private banks, to stabilize loan portfolios. Individual exposed banks, <i>Skandinaviska Kreditaktiebolaget</i> , stabilized via emergency credit. "Encouragement" to other private banks to deposit funds at weaker rivals. JNS (1933) suggests SEK 232M fiscal, 200M liquidity costs during 1932.	BBEL, OLG		PRI-PRI (partly)	JNS 1933, 704; Ogren 2018, 66ff.; Reinhart/Rogoff
NOR-1931	December 1931	Norway	3-month suspension of deposit withdrawals in December 1931, guarantee on new deposits.	AG, AHEL, SBH			League of Nations 1935, 84f.; Nordvik 1995, 443f.; Reinhart/Rogoff
US-1929	January 1932	United States	Reconstruction Finance Corporation (RFC) established to provide LLR function (in March 1933 mandate extended).	BBEL	SPV		Butkiewicz 1995.

NOR-1931	February 1932	Norway	Norges Bank grants liquidity assistance to banking system after parliamentary approval, placing deposits into DnC and Bergen Privatbank – which is key to then induce private equity injections in weak banks.	BBEL, BBCI	PRI-PRI (partly)	Lie 2020, 149ff.
GER-1931	March 1932	Germany	Reichsbank merges <i>Darmstaedter Bank</i> with <i>Dresdner Bank</i> . Management is dismissed.	RES		Hardach 1995, 286.
BEL-1929	March 1932	Belgium	After failure of five medium-sized banks in Liege region, NBB spearheads incorporation of new regional bank, L'Union Bancaire Liegeoise, to ease liquidity squeeze. Capitalized with BEF 30M, joint with private banks.	AHEL, other	PRI-PRI (partly)	NBB 1932, 190f.; Van der Wee and Tavernier 1975, 261.
CZK-1932	April 1932	Czechoslova kia	Enlargement of <i>Reconstruction Fund</i> , which issues quasiguaranteed securities on behalf of weaker banks; state cancels deposit claims in two banks, issues partial deposit guarantee.	BBEL, AHEL, AG	PRI-PRI (partly)	League of Nations 1935, 13f.
YUG-1932	April 1932	Yugoslavia	After bank runs, protection scheme for banks enacted: upon application, provision of state funds. Major banks, including First Croatian Savings Bank apply for emergency aid.	BBEL		Bicanic and Ivankovic 2004, 76ff.
US-1929	June 1932	United States	Chicago bank run: Chicago banks cooperate to save Central Republic Bank from liquidation, assuming credit risk on RFC liquidity assistance. Ca. USD 90M total volume.xxvi	OLG	PRI-PRI	Calomiris and Mason 1997, 868f.

COB-1932	June 1932	Colombia	Corporación Colombiana de Crédito (CCC) founded to act as bad bank (bank portfolios swapped for CCC bonds). General extension of debt maturities.	BBAM, DPM	SPV		Uribe 2000, 59f.; Caballero Argaez and Montoya 2006, 90.
	1932	Columbia	Government makes interest-free deposits at commercial banks to prop up liquidity. Banks in turn agree to accept "internal bonds" and other unconventional assets as payments for liabilities.	BBEL, ORL			Caballero Argaez and Montoya 2006, 88f.
CAD-1932	November 1932	Canada	From November 1932, "forced" emergency lending to Canadian commercial banks under Finance Act provisions, initial CAD 35M, amid sharp money contraction.	BBEL			McIver 1958, 132f.
GER-1931	December 1932	Germany	Establishment of public financial intermediaries (FINAG and TILKA) which are to lend to banks against depreciated or bad assets.	BBAM, BBEL	SPV		Hardach 1995, 287.
FRA-1930	December 1932	France	Run on Banque d'Union Parisienne: private syndicate around Societe Generale de Belgique provides emergency assistance, facilitates merger with Credit Mobilier.	AHEL, RES		PRI-PRI	Lacoue-Labarthe 2005, 639.
IT-1930	January 1933	Italy	IRI, public holding company, established to pool industrial assets formerly held by separate semi-public holding companies and private banks. By 1934, <i>Banca Commerciale</i> and <i>Credito Italiano</i> nationalized via IRI.	AHCI, BBAM	SPV		Toniolo 1995, 311f

FIN-1933	1932	Finland	Cooperative banks establish mutual security fund, enabling deposit insurance, loans, and subsidies.	AG, AHEL	ASSOC	PRI-PRI	Nyberg and Vihriälä 1993, 26.
	February 1933	Finland	Emergency assistance for Suomen Maatalous-Osake-Pankki via Maarki 25M capital injection; participation of Nordic Union Bank and Bank of Helsinki. Treasury covers exchange losses for Central Lending Fund of Co-operative Credit Societies, Markkaa 249M.	AHCI, OLG		PRI-PRI (partly)	Ikonen, Autio, and Elonen 1992, 70f.; Kuusterae and Tarkka 2011, I, 541ff.
US-1929	March 1933	United States	Roosevelt announces nationwide bank holiday March 5; reopening March 13. FDR "fireside chat" on March 12 as a major communication event.	MC, SBH			Silber 2009.
	March 1933	United States	Reconstruction Finance Corporation (RFC) authorized to invest in banks via preferred stock. FDIC established. By June 1935, US\$ 1.3BN in bank stocks bought.	AG, BBCI, BBEL	SPV		Mason 2000, 18ff.; Silber 2009.
BEL-1929	April 1933	Belgium	Law of April 14, 1933: banks are lend to via new BEF 700M fund at A.N.I.C., which utilizes obligation portfolio. BEF 477.5M actually taken up, mainly by Banque Belge du Travail and Algemeene Bankvereeniging.	BBEL			Van der Wee and Tavernier 1975, 262.
DK-1933	May 1933	Denmark	Government establishes assistance fund (<i>Krisefonden</i>) with Kroner 100M, to enable deposit withdrawals at banks. Fund enlarged by extra Kroner 60M in mid-1934.	BBEL	SPV		League of Nations 1935, 21.

LIT-1933	1933	Lithuania	Government restructures <i>Co-Operative Bank</i> and subscribes Litas 2.5 of 3M capital increase.	AHCI	League of Nations 1935, 76.
AT-1933	1933	Austria	Use of "Revisionsgesellschaft" to buy 31.5M Schilling in direct equity and purchase 108M Schilling assets from Escompte-Gesellschaft and Wiener Bankverein.	AHCI, BBAM	Pressburger 1966, 471f.
SZ-1933	1933	Switzerland	Looming collapse of Volksbank/Banque Populaire Suisse (BPS): public subscription to CHF 100M capital increase via Conseil Federale to provide aid.	АНСІ	Cassis 1994, 1081; Baumann 2007.
32-1933	December 1933	Switzerland	Up to CHF 125M liquidity aid for Volksbank via Darlehenskasse (EDK) and SNB, until actual public capital injections are undertaken.	AHEL	Baumann 2007, 275ff.
BEL-1934	May 1934	Belgium	Banque Belge de Travail failure. Decree to enable banks to swap industrial for central bank-backed NBB bonds, which come with state guarantee (vol. up to 2BN BEF).	BBEL, OLG	JNS 1935, 192; Reinhart and Rogoff; Maes and Buyst 2009, 102.
ARG-1934	September 1934	Argentina	Government-induced merger of four smaller banks after runs. By May 1935, formal central bank is established and comprehensive banking system bailout enacted (s.b.).	BBEL, RES	Bernanke 2000, 93; Della Paolera and Taylor 2001, 137ff.; Reinhart/Rogoff.

BUG-1934	October 1934	Bulgaria	Amalgamation of 8 joint-stock banks into <i>Credit Bulgare</i> , assisted with Leva 50M state capital and special Leva 100M loan. State buyout of Sofia Mortgage Bank by 1936.	AHCI, AHEL, RES			League of Nations 1935, 10ff.; Lampe 1986, 92f.
POL-1934	1934	Poland	Renewed banking volatility: "administrative dedollarization" of banking system; substantial public recaps of state banks (total ca. Zloty 320M over 1929-1935) and favorable rediscounting; Bank Akceptacyjny SA founded to restructure agricultural/industrial bank assets.	BBAM, BBCI, BBEL, other		STOW (partly)	Landau and Tomaszewski 1985; Landau and Morawski 1995, 365ff.; Reinhart/Rogoff.
CN-1934	March 1935	China	De facto nationalization of BoC and BoCOM from March 1935 via government subscription to fresh equity issuance; management changes. By 1943 further dilution of private stakes (from 50 to 33% private stake).	AHCI			Peng 2007, 59f.; Reinhart/Rogoff
	June 1935	China	Government and Legislative Yuan set up 25M yuan Rehabilitation Fund to recap native banks upon official balance sheet examination. Separate 5M yuan advances to three modern banks: Ningpo Commercial and Savings Bank, Commercial Bank of China, and National Industrial Bank of China.	BBCI, AHEL	SPV		Shiroyama 2008, 166.
IT-1935	1935	Italy	International sanctions after Italian invasion of Ethiopia. 1936 Banking Law significantly alters industry structure, including transformation of Banca d'Italia.	ORL			Hertner 1994, 571ff.; Reinhart/Rogoff

GER-1935	1935-1939	Nazi Germany	Various forced mergers, expropriations, and closures of Jewish-led commercial banks (i.e. <i>Oppenheimer</i> , <i>Mendelssohn</i>). Issuance of Solawechsel and Mefo-bills, partly designed to increase bank liquidity and discountable assets.	MLA, ORL	Market		Balderston 1991, 599ff.
ARG-1934	May 1935	Argentina	Founding of new central bank, and bank restructuring body, IMIB, which facilitates wide-ranging asset swap and "clean up" operations for banking system (incl. asset swap with Banco de la Nacion). Various de facto forced mergers. Della Paolero and Taylor (2001, 253): 787m Pesos volume.	BBAM, RES, other	ASSOC		Della Paolera and Taylor 2001, 174ff.
AT-1936	May 1936	Austria	Phoenix Insurance-Finance group collapses: pressure from government authorities on private sector to guarantee existing debts and ensure orderly liquidation (guarantees granted by private sector).	OLG		PRI-PRI	Feldman 2002, 70ff.
FRA-1937	1937	France	Sharp fiscal and exchange rate crisis. BdF interventions in FX space, but at present, no indications of bank interventions.	NO/I			Margairaz 1991, 285ff.; Baron, Verner, Xiong 2021.
IN-1938	April 1938	India	"South Indian banking crisis" after collapse of TNQ bank: RBI increases maximum borrowing limits and grants some individual emergency loans to Madras banks.	AHEL			Simha 1970, 183- 192.
CZK-1939	March 1939	Czechoslova kia	Bank runs trigger restrictive moratorium by authorities.	DPM			Klemann and Kudryashov 2012, 225.

CY-1939	August 1939	Cyprus	Multiple runs on local banks and fears over Bank of Cyprus: government orders banking holidays, and Ottoman Bank and Barclays DCO provide emergency lending with government guarantees.	BBEL, SBH	PRI-PRI (partly)	Phylaktis 1995, 15.
GER-1939	September 1939	Nazi Germany	De facto Reichsbank emergency lending after war outbreak: jump in discounts year-end 1938 – year-end 1939 by RM 3.48BN.	BBEL		JNS 1940, 66.
YUG-1939	September 1939	Yugoslavia	Banking panic amid war outbreak: authorities declare bank holiday.	SBH		Klemann and Kudryashov 2012, 225.
SWE-1939	September 1939	Sweden	Minor bank runs after war outbreak in Europe: banks turn to Riksbank for emergency discounting. Jump in Riksbank discounts from 13M to 197M SEK over Sep-Dec. 1939.	BBEL		JNS 1940, 177.
UK-1939	September 1939	United Kingdom	Stock market closes on September 1 st following German invasion of Poland. Reopening after one week.	SBH		Michie 2006, 206.
US-1939	September 1939	United States	FRBNY's open market desk purchases USD 800M of Treasuries to support Treasury market functioning amid war outbreak and surge in uncertainty.	MLA		Garbade and Keane 2020; Hauser 2021.
BEL-1939	December 1939	Belgium	Collapse of Credit Anversois amid rapid capital flight. Some public aid to compensate depositors.	AG		JNS 1940, 88; Reinhart/Rogoff

ES-1939	December 1939	Spain	Bank Recompensation Fund established to cover losses arising out of revaluation of financial liabilities registered in formerly "Red Spain".	AG, OLG	SPV	JNS 1940, 83.
FIN-1939	1939	Finland	U.S.S.R. invades Finland: sharp surge in commercial bank rediscounting demand. Bank of Finland meets ca. Markka 400M in extra demand.	BBEL		Kuusterae and Tarkka 2011, 586ff. Reinhart/Rogoff
FRA-1939	1939	France	No specific 1939 interventions in standard literature, but 1936 Banque de France nationalization under Blum government; Paris stock exchange closed June-Oct 1940.	RES, SBH		Einaudi 1948; Reinhart/Rogoff
NL-1939	May 1940	Netherlands	Amsterdam stock market closes till July amid German war against France and depositor concerns.	SBH		Michie 2006, 206; Reinhart/Rogoff.
ES-1942	1942	Spain	De facto nationalization of Bank of Spain via decree.	RES		Martin-Acena 2018, 191.
GER-1943	January 1943	Nazi Germany	"Kursstoppverordnung": heavy curtailing of nationwide stock exchange and credit market operations amid ongoing volatility. Part reversals only by Aug-1945.	SBH		Fischer 2007, 150.
FRA-1943	September 1943	France	Major monetary crisis from September 1943: Banque de France extends significant open market liquidity to stabilize financial system; later, de Gaulle nationalizes commercial banks by Dec. 1945.	BBEL, RES		Margairaz 2002, 46, 69ff.

NL-1944	September 1944	Netherlands	Anticipation of widespread bank runs as Allies advance on the Netherlands: Dutch Central Bank declares bank payment moratoria on regional level (Zeeland) and Dfl 100 deposit withdrawal limits (not implemented).	DPM, SBH	Barendregt 1993, 39f., 51.				
	August 1945	Japan	Tokyo stock market closed amid war escalation and financial volatility.	SBH	Michie 2006, 210.				
JP-1945	February 1946	Japan	Bank of Japan Deposit Note Ordinance passed: nationwide deposit freeze amid surging inflation, monetary reform.	SBH	Hamada and Kasuya 1992, 17f.				
	MODERN FINANCIAL SYSTEM (1945-)								
POL-1946	January 1946	Poland	Bank nationalization decree is issued.	RES	Sharpe 1946, 33ff.				
IN-1947	1947-1948	India	At present, no indications of interventions.	NO/I	Reinhart/Rogoff				
BUG-1947	December 1947	Bulgaria	"Law on Banking" is passed, nationalizing all domestic and foreign banks in the country, some token compensations to domestic shareholders.	RES	Sipkov 1958, 489f.; Lampe 1986, 130f.				
ROM-1948	June 1948	Romania	Bank nationalization law is passed. Banks not covered by nationalization law are forced into liquidation by August.	RES	Stoenescu et al. 2014, 249.				

COS-1948	1948-1949	Costa Rica	New Junta government nationalizes country's banking system.	BBCI		Watkins 2020.
ARD-1949	January 1949	Argentina	Major stock market crash and squeeze on stock brokers: "Mixed Commission of Liquid Investments" (IMIM) provides emergency lending of Pesos 170M (>50M direct, then 120M fund replenished).	BBEL	ASSOC	Lewis 1990, 197.
KOR-1950	June 1950	Korea	Outbreak of Korean War sparks widespread bank runs: Bank of Korea implements "Special Decree on Financial Institutions' Deposit Withdrawals", limiting withdrawals. Liquidity crunch associated with war outbreak and deposit runs: Bank of Korea sets up "Emergency Credit Facility", widens eligible assets by special decrees.	BBEL, SBH		Bank of Korea 2010, 157.
IN-1951	1951	India	Nationalization of <i>Imperial Bank of India</i> (transformed into central bank, SBI by 1955).	AHCI		Roland 2008, 17f.
BRL-1953	1953	Brazil	Runs on Rio banks in May 1955. Finance Ministry issues statement: "every resource will be placed at the banks' disposal to enable them to face difficulties". Run subsides.	МС		Financial Times, May 16, 1955.
NG-1954	February 1954	Nigeria	Major indigenous banks teetering on brink of default: substantial capital injections (870,000 GBP) and deposits (30,000 GBP) into ACB via Finance Corporation and Eastern Regional Government.	AHCI, AHEL		Brown 1966, 59ff.

EG-1957	January 1957	Egypt	Nassar government nationalizes operations of Anglo-Egypt Bank (Barclays DCO branch), and other French- and British-owned banks.	BBCI		Ackrill and Hannah 2001, 288f.
US-1958	July 1958	United States	FRBNY open market desk buys USD 1.175BN in Treasury certificates and securities to stabilize disorderly conditions, threats of market instability.	MLA		Garbade and Keane 2020; Hauser 2021.
NG-1959	September 1959	Nigeria	National Bank of Nigeria on brink of default: Western regional boards (WRPBD and WRMB) jointly make ca. GBP 6M deposits over 1959-60 to provide rescue funds.	AHEL		Brown 1966, 62ff.
VN-1960	1960	Venezuela	Systemic crisis following fall of dictatorship in 1958: capital flight and collapse of 16 major institutions – state expends ca. 28% of GDP refloating banks and compensating depositors over 1961-1963.	AG, BBCI, BBEL, RES		De Krivoy 2000, 32.
KOR-1961	May 1961	Korea	"Massive bank runs" following May Coup: military government successively nationalizes majority of commercial banks.	BBCI		Lee, Lee, and Lee 2002, 31; Bank of Korea 2010, 166.
HK-1961	June 1961	Hong Kong	Run on Liu Chong Hing Bank. After several days, run subsides as HSBC and Chartered Bank publicly declare support for Chong Hing at instigation of authorities.	other	PRI-PRI (partly)	Schenk 2003, 143f.; Goodstadt 2007, 147.
BRL-1963	1963	Brazil	"Overaccumulation of capital", economic crisis, and military coup. Monetary authorities (Bank of Brazil,	BBEL		Welch 1993, chapter 3; Reinhart/Rogoff

			Treasury, and SUMOC) "appeaseilliquidity of firms through money creation at the discount window".				
HK-1965	January 1965	Hong Kong	Severe banking panic starting with run on Ming Tak Bank: Hongkong Bank lends ca. HKD 163M to local Chinese- owned banks alone over 1965, with some participation of Chartered Bank; deposit withdrawal restrictions; ex post reimbursement of depositors through public funds, i.e. for Canton Trust.	AG, BBEL, RES, SBH		PRI-PRI (partly)	Schenk 2003, 146ff.; Goodstadt 2007, 147ff.
UG-1965	April 1965	Uruguay	Banco Transatlantico crash. Banco de la Republica takes over bank management after appeal for help. Further takeover of three banks in May by Central Bank. Bank holiday, Private banks establish Peso 850M emergency fund to safeguard against new runs.	BBCI, BBEL, SBH	SPV (partly)	PRI-PRI (partly)	Financial Times, April 28 and May 14, 1965; Yaffe 2003, 23f.
JP-1965	May 1965	Japan	"Bank run-like panic" in Tokyo after major stockbroker Yamaichi reveals large losses: finance ministry demands provision of emergency liquidity: BoJ provides "special loans" from May, inc. JPY 4.5BN to Yamaichi itself. MoF agrees debt moratorium with private creditors of Yamaichi.	BBEL, DPM			NYT, July 8, 1965; Wakatabe 2013, 148.
US-1966	September 1966	United States	Amid "credit crunch" Fed expressly allows temporary advances to member banks for the benefit of nonmember banks (renewed in 1969).	BBEL			Burger 1969; Hackley 1973, 122.
TZ-1967	February 1967	Tanzania	"Arusha Declaration" by Nyerere government nationalizes full banking system, under new National Bank of Commerce (NBC) umbrella. Ca. GBP 3.3M (Shs. 60M) in state compensations to bank shareholders.	BBCI			Mittelman 1978, 611ff.; Nord et al 2009, 39.

IN-1969	July 1969	India	Nationalization of 14 commercial banks via "Banking Companies Ordinance" Bill. Total compensation by government given at Rs. 8,740 laks (Parameswaram 2001).	BBCI		Morris 1985, 3; Parameswaran 2001, 25.
US-1969	1969	United States	As in 1966, Fed "temporarily" allows advances to member banks for the benefit of nonmember banks amid continued problems at savings associations.	BBEL		Hackley 1973, 122.
CL-1970	1970-1972	Chile	Allende government nationalizes at least 26 private banks via purchases of equity through CORFO fund (Escudos 400M). Some resisting banks are liquidated.	BBCI	SPV	Sigmund 1977, 133f.
	May 1970	United States	FRBNY market intervention amid Vietnam war escalation, bond market sell-off. Total USD 2.7BN in extraordinary repos and bill purchases.	MLA		Garbade and Keane 2020.
US-1970	June 1970	United States	Penn Railroad collapse: Fed informs banks that discount window is "wide open", suspension of interest rate ceilings. Maisel (1973): Fed actions prevented panic. Schwartz: "pseudo-financial crisis".	BBEL, ORL		Maisel 1973, 4-9; Schwartz 1986, 25.
UG-1971	April 1971	Uruguay	Banco Mercantil failure and nationalization, wave of subsequent mergers and liquidations.	AHCI		Yaffe 2003, 23f.; El Observador, June 6, 2018; Reinhart/Rogoff
PK-1974	June 1971	Pakistan	Demonetization campaign, bank instability: suspension of banking system in June. By 1974, full nationalization (s.b.).	SBH		Siddiqui 2008, 202.

PHP-1971	1971	Philippines	At present, no crisis interventions identified.	NO/I		Baron, Verner, Xiong 2020.
UK-1974	April 1973	United Kingdom	Looming failure of "Scottish Coop Wholesale Society" (listed bank): Bank of England and Scottish and English clearing banks guarantee all its Certificates of Deposits commitments for five years (eventual GBP 29M cost), as well as all deposits (GBP 56M).	OLG	PRI-PRI (partly)	Financial Times, April 21, 1973; Reid 1982, 79f.
MT-1973	December 1973	Malta	Emergency rescue of National Bank of Malta (2 nd largest bank in Malta), by establishment of new M\$ 3M holding company, with 40% stake of Barclays, 60% Treasury.	АНСІ	PRI-PRI (partly)	Financial Times, December 11, 1973.
PK-1974	January 1974	Pakistan	Nationalization of 15 private domestic banks via "Bank Nationalization Ordinance Act", placed under new Pakistan Banking Council, with all deposits guaranteed. Foreign banks banned to open new branches.	AG, RES		Rammal 2008, 343f.
SWE-1974	1974	Sweden	State forces merger between <i>Kreditbanken</i> and <i>Postbanken</i> , into <i>PK-Banken</i> , increasing joint public stake.	AHCI, RES		Sjoegren and Iversen 2019.
UK-1974	1974	United Kingdom	Bank of England coordinates GBP 1.3BN liquidity and loan program by private sector amid continued banking volatility. "Secondary banking crisis", to 1976.	BBEL, other	PRI-PRI	Turner 2014, 53.
G-1974	September 1974	G10	G10 Communique following Herstatt collapse: "onlender of last resort in the Euromarketsto that end means are available and will be used if and when	MC, OLG		Financial Times, September 9, 1974; Domanski,

			necessary". De facto agreement to guarantee bank liquidity arising from exchange losses.			Moessner, Nelson 2014, 6.
IT-1974	September 1974	Italy	Sindona Bank failure: formation of public-private bank consortium to assume various obligations and guarantee depositors, coordinated by Banca d'Italia. Move follows separate USD 200M liquidity assistance by Banca di Roma to Sindona. Guarantee volume est. Lire 293.4BN.	AHEL, BG, RES	STOW (partly) PRI-PRI (partly)	Financial Times, September 17, and September 30, 1974.
US-1974	October 1974	United States	Franklin National bank sale via FDIC, including USD 1.75BN bridge loan from Fed.	AHEL		Spero 1999.
AUS-1974	October 1974	Australia	Run on property developers threatens to engulf banking system. Government announces full support to banks providing liquidity. Reserve Bank provides Special Drawing Facility to lend below market rates. At least A\$ 353 drawn.	BG, BBEL		Fitz-Gibbon and Gizycki 2001, 52f.
FRA-1974	December 1974	France	Default of CLAM derivatives clearinghouse. Government approves suspension of sugar trading – de facto creditor bail-in. Participation of professional associations of sugar producers in resolution, enacted by state decree Jan 1975.	BAIL, RES, other	ASSOC (partly)	Bignon and Vuillemey 2020.
SZ-1975	January 1975	Switzerland	Finawas collapse in Geneva (Sindona holding): Swiss authorities close down bank after spiralling losses.	RES		WSJ, January 8, 1975, 8.
PT-1975	March 1975	Portugal	Portugal nationalizes banking system (Law No. 132-A/75), including Banco Pinto & Sotto Mayor, and Banco Borges.	RES		Reis 1994, 825, 844.

UK-1974	May 1975	United Kingdom	Bank of England grants GBP 5M short-term facility to Edward Bates Holding (EBH) amid doubts over solvency.	AHEL		Capie 2010, 565f.; Reinhart/Rogoff
	October 1975	United Kingdom	Bank of England takeover of <i>Slater Walker</i> , with GBP 70M lent and further 40M guarantees.	AHCI, AHAG		Hall 1987.
CAF-1976	1976-1982	Central African Republic	At present, no crisis interventions identified.	NO/I		Reinhart/Rogoff
CL-1976	January 1976	Chile	Failure of Banco Osorno, La Union and others: state guarantees 100% of deposits, despite absence of general deposit insurance.	AHAG		Valdes and Lomakin 1988, 229; Reinhart/Rogoff
UK-1974	May 1976	United Kingdom	Bank of England aids Edward Bates (EBH) depositors via GBP 80M standby facility, together with First Arabian.	AG	PRI-F (partl	Canie 2010 566
US-1976	September 1976	United States	Fed emergency loans to American Bank and Trust Company, followed by facilitated takeover of bank by Leumi Bank. FDIC and other regulators extend further USD 10M loan to Leumi to finance takeover.	AHEL, RES		Financial Times, September 17, 1976.
AUS-1977	September 1977	Australia	Queensland Federal Treasury pledges "full support" to building societies after run on Queensland Permanent Building Society (A\$ 838M state assets as of Jan-1976). Metropolitan Building Society rescued via loan.	BG, AHEL		Financial Times, March 25, 1976; Fitz-Gibbon and Gizycki 2001, 57.

ES-1977	November 1977	Spain	Government establishes Deposit Guarantee Fund in response to crisis. Up to 500,000 pesetas per depositor covered. Public and private contributions. From January 1978 direct interventions in Spanish banks (with limited mandate till 1980).	AG, BBCI, RES	SPV	PRI-PRI (partly)	Sheng 1996, 90; Martin-Acena 2018, 196f.
MY-1977	December 1977	Malaysia	Government provides GBP 38M rescue loan to Bank Rakyat as default looms.	AHEL			Financial Times, December 21, 1977.
SAF-1977	1977-1978	South Africa	Banking volatility: rescue operation for Trust Bank of South Africa, taken over by Bankorp. Unspecified "assistance" from Reserve Bank of South Africa to banks overexposed to property sector.	AHEL, RES			Verhoef 1992, 138ff.; Reinhart/Rogoff
GER-1977	1977-1979	Germany	"Giro-Krise". But no reported interventions. Previous establishment of "Sparkassen-Haftungsverbund" in 1975 (co-insurance fund of savings associations).	NO/I			Reinhart/Rogoff
BEL-1978	January 1978	Belgium	La Banque van Loo bankruptcy: Rediscount and Guarantee Institute retroactively reimburses depositors up to maximum ceiling, in absence of general deposit insurance. Ca. BEF 400M paid out.	AG	ASSOC	PRI-PRI	Goodhart and Schoenmaker 1992, 401.
VN-1978	1978	Venezuela	Collapse of Banco Nacional de Descuento (BND): initially, central bank extends significant liquidity support, by December bank taken over and liquidated. Depositors reimbursed. Total gross costs estimated at at least Bolivares 3.5BN.	AG, AHEL, RES			Ugalde 1979; De Krivoy 2000, 32f.

AUS-1979	May 1979	Australia	Bank of Adelaide receives A\$50M subordinated loan from private banks, and A\$10M liquidity assistance from Reserve Bank to prevent full run (later brokered takeover).	AHEL	PRI-PRI (partly)	Fitz-Gibbon and Gizycki 2001, 60.
IR-1979	June 1979	Iran	Full nationalization of country's banking system, encompassing at least 28 (majority-) public and private institutions amid Revolution and capital flight.	RES	STOW (partly)	Eskridge 1981, 525.
US-1980	April 1980	United States	USD 1.5BN emergency aid to First Pennsylvania Bank, with public and private participation (FDIC, Citicorp) via credit lines; overall loan guarantee by Fed.	AHEL, OLG	PRI-PRI (partly)	Financial Times, April 30, 1980.
ARG-1980	April 1980	Argentina	Significant LLR proves insufficient. Nationalization of Banco International, Banco Oddone, and Banco de los Andes. Significant extension of deposit insurance, retroactively to Nov. 1979.	AG, BBEL, BBCI		Balino 1991, 92.
IN-1980	April 1980	India	Nationalization of six commercial banks, Rs 23BN deposits.	RES		Financial Times, 16 April 1980; Morris 1985, 3.
ARG-1980	October 1980	Argentina	Central Bank establishes special lines of credit lending below market rates to facilitate M&A activity in banking sector to aid restructuring.	AHEL		Balino 1991, 99.

ES-1977	May 1980	Spain	Reform of Deposit Guarantee Fund, financed privately and publicly, to recapitalize and restructure troubled banks. Increase of deposit insurance; Bank of Spain organizes takeover of Banco de Madrid by Banesto.	AG, BBCI, RES	SPV	PRI-PRI (partly)	Financial Times, May 15, 1980; Sheng 1996, 87f.
DEL 1000	June 1980	Belgium	Banque Andes failure: Rediscount and Guarantee Institute grants BEF 200M emergency credit (not drawn), some assets and deposits taken over by other private banks.	AHEL, RES	ASSOC	PRI-PRI (partly)	Goodhart and Schoenmaker 1992, 402.
BEL-1980	1980	Belgium	Geoffrey's Bank failure: Banking Commission and Rediscount and Guarantee Institute facilitate takeover by Gesbanque and grant BEF 15M credit line.	AHEL, RES	ASSOC	PRI-PRI (partly)	Goodhart and Schoenmaker 1992, 402.
UG-1980	1980-1983	Uruguay	Beef price collapse accelerates bank problems: Central Bank provides preferential liquidity in LCY and USD to banks and "absorbs substantial portions of losses" at commercial banks over 1982-3. Direct purchases of foreign bank portfolios in arrears.	BBAM, BBCI, BBEL			World Bank 1989, 72; Morris 1990, 87f.; Reinhart/Rogoff
TH-1980	1980-1987	Thailand	Central Bank creates "Financial Institutions Development Fund" to provide bank liquidity assistance; various finance companies are liquidated; bailout of major share of depositors.	AG, BBEL, RES	SPV (partly)		Alba, Hernandez, and Klingebiel 1999, 14; Reinhart/Rogoff
EC-1981	1981	Ecuador	Debt crisis: "Sucretizacion" enacted to aid private sector (incl. financial system): foreign private debt assumed by public sector, with private sector paying in local FX.	BBEL			Reinhart/Rogoff

MX-1981	1981-1982	Mexico	Nationalization of banking sector by Portillo government (law of September 1, 1982); significant capital flight and financial volatility. Bank owners are bought out.	BBCI			Maxfield 1992, 85ff., 92; Reinhart/Rogoff
PHP-1981	January 1981	Philippines	"Dewey Dee affair" triggers multi-year banking crisis. Widespread LLR, interventions and restructurings. "Industrial Fund" established to alleviate corporate NPL problem. By 1982 replaced by special rediscount facilities, established to provide emergency lending to universal and quasi-banks. Nascimento (1991, 213) suggests PHP 15.1BN in CBP assistance over 1981-3.	BBAM, BBEL, RES	SPV (partly); Industry (partly)	STOW (partly)	Nascimento 1991, 217f.; Reinhart/Rogoff
AT-1981	July 1981	Austria	Collapse of Eumig corporate spills over to Laenderbank (60% state-owned): ASh 4.5BN in losses. State covers ASh 3BN write-offs for bad credits via Treasury, ASh 1.5BN losses absorbed by own Laenderbank reserves - by 1991 bank privatization and merger.	AHCI, BAIL		STOW	Kriechbaumer 2006, 254f.
CL-1981	November 1981	Chile	After CRAV crash in Nov-1981, Chile Central Bank nationalizes 22 national banks and financial institutions over the course of 1982-1985. Deposit and other liability guarantees are extended.	BBCI, AG, OLG			Montiel 2014, 32ff.' Reinhart/Rogoff
FR-1982	1982	France	Mitterrand bank nationalizations. Includes Banque Vernes and L'Europeenne de Banque. Bank owners are bought out.	BBCI			Maxfield 1992, 85ff, 92.

CAD-1982	1982	Canada	Sharp drop in profitability and equity prices, spillover from U.S. volatility, lawsuits against Bank of Novia Scotia, but no reports of systemic event or interventions.	NO/I			Bordo, Redish, and Rockoff 2015; Baron, Verner, Xiong 2021.
GH-1982	January 1982	Ghana	7 of 11 main audited banks collapse; reports of public asset purchases. By 1988 creation of dedicated AMC ("NPART").	BBAM	SPV		Antwi-Asare and Addison 2000, 2ff.; Kane and Rice 2001, 40; Laeven and Valencia.
DK-1982	April 1982	Denmark	Three main commercial banks form consortium to rescue Henriques Bank after major losses – via subscription to new share capital. Dkr 36M total aid.	AHCI	SPV	PRI-PRI	Financial Times, April 20, 1982.
BEL-1980	May 1982	Belgium	Failure of Banque Copine: interventions by Rediscount and Guarantee Institute, and Banking Commission, who require reorganization of bank and grant total of BEF 1.9BN in emergency credit [must have occurred pre-June, given Dermine 1982, 39]. By December, partial assumption of deposits/assets by Famibanque.	AHEL, RES	ASSOC	PRI-PRI (partly)	Dermine 1982; Goodhart and Schoenmaker 1992, 402.
COB-1982	June 1982	Colombia	Banco Nacional nationalized, depositors and some creditors reimbursed. Bank liquidated.	AHCI, BAIL, AG			Montes-Negret 1996, 102.
SG-1982	1982-1983	Singapore	Government coordinates setting up of lifeboat fund with four major banks. Indirect government guarantees via Singapore Stock Exchange.	BBEL	SPV (partly)	PRI-PRI	Braunstein 2017, 52f.; Reinhart/Rogoff

					Stock exchange (partly)		
IT-1982	July 1982	Italy	Continued banking stress: joint public-private rescue operation by six banks for Banco Ambrosiano, with doubtful loan exposure > USD 1BN, including deposit guarantees and liquidity. Coordination by BdI.	AG, AHEL, RES			Financial Times, July 12, 1982.
TK-1982	July 1982	Turkey	Collapse of Banker Kastelli and subsequent bank runs: Central Bank loans widely to sector and specifically to state-owned Ziraat Bank, total ca. GBP 200M.	BBEL		STOW (partly)	Financial Times, July 13, 1982; Reinhart/Rogoff.
YUG-1982	July 1982	Yugoslavia	Meaningful official assistance to troubled banks, focused on Privredna Bank, at least USD 487M in loans.	BBEL		STOW	Financial Times, July 20, 1982.
US-1982	August 1982	United States	FDIC organizes resolution and takeover of Abiliene Bank, and deposits USD 50M with bank for five years to aid takeover.	AHEL, RES			Financial Times, August 20, 1982.
KW-1982	August 1982	Kuwait	Souk al-Manakh crash: all but one Kuwaiti banks technically insolvent from stock market fallout. Trading is halted and government at fist rejects bailout. Main interventions over 1983 (s.b.).	BBEL, ORL, SBH			Craig 2019; Laeven and Valencia.
CB-1982	October 1982	Columbia	In emergency move, Banco del Estado is nationalized after it exhausts emergency lending lines from central bank. Decree also introduces variety of new macro-pru laws.	AHCI, AHEL, ORL			Montes-Negret 1996, 102f.

TN-1982	1982-1985	Tunisia	IMF/World Bank programs, "bread riots" over austerity measures; various macro-pru and regulatory reforms for banking sector (interest rate liberalization, NPL accounting).	ORL			World Bank 1988, 18-22; Reinhart/Rogoff
KOR-1983	1983	Korea	Structural problems result in merger or liquidation of 78 firms over 1986-7. No reports of 1983 interventions.	NO/I			World Bank 1989, 71; Reinhart/Rogoff
CB-1982	1983	Columbia	Bank capitalization fund established: participating banks can discount at preferential rates to issue new shares.	BBCI, BBEL		PRI-PRI (partly)	Montes-Negret 1996, 103.
DRC-1983	1983	DR Congo	IMF standby/EFF assistance over 1981-1983, Paris Club private bank debt reschedulings in 1981 and 1983.	BAIL, DPM		PRI-PRI (partly)	Callaghy 1984, 64ff.; Laeven and Valencia.
EQG-1983	1983	Equatorial Guinea	"Virtually defunct banking system". All state-owned banks liquidated, new commercial banks with foreign participation established.	RES		STOW	World Bank 1989, 71; Laeven and Valencia.
PHP-1981	1983	Philippines	Ongoing banking crisis, fresh bank runs: CBP assumes exchange swap and deposit losses from commercial banks. Widespread debt-equity conversions and STOW-led consolidations.	BAIL, BBCI, BBEL		STOW (partly) PRI-PRI (partly)	Nascimento 1991, 212, 218ff
ES-1977	January 1983	Spain	Expropriation of Rumasa Conglomerate (comprising 20 banks) via DGF. Administered via Department of National Heritage.	RES	SPV		Sheng 1996, 93f.

CL-1981	January 1983	Chile	Government places seven banks and one <i>financiera</i> , accounting together for 40% of Chilean deposits, under "temporary" management. BG to all intervened banks.	BBCI, BG			Velasco 1991, 149; Laeven and Valencia 2012, 1224.
	January 1983	Kuwait	Mayor support program for stock exchange to stabilize prices: KD 270M in gvt. purchases over 1983 – benefiting banks.	MLA	Market		Craig 2019.
KW-1982	April 1983	Kuwait	New stock market established and technical bodies established to manage all affected financial claims ("CSCFST").	ORL	SPV		Craig 2019.
COB-1982	1983	Columbia	Banco de Bogota shares transferred to fund administered by state-owned banks, financed via central bank loans.	AHCI	SPV		Montes-Negret 1996, 104.
CH-1983	1983	Chad	At present, no crisis interventions identified.	NO/I			Laeven and Valencia.
HK-1983	September 1983	Hong Kong	US\$ 300M bailout of Hang Lung Bank via Sovereign Wealth Fund, 4BN HK\$ guarantees to Ka Wah Bank to achieve private takeover.	AHCI, AHEL, OLG		PRI-PRI (partly)	Financial Times, September 28, 1983; Braunstein 2017, 53f.
IS-1983	October 1983	Israel	Seven major banks are nationalized via US\$ 6.9BN debt- for-equity swaps (at allegedly inflated equity prices) after heavy bank stress and closure of exchange: including <i>Bank</i> <i>Leumi</i> , <i>Poalim</i> , <i>Mizrahi</i> . Special holding company.	BBCI, SBH			Sargent and Zeira 2001.

US-1984	November 1983	United States	Bank runs in Nebraska after forced closure of Commonwealth Savings Company, suspension of deposit withdrawals. Failure of state deposit insurance NDIGC.	SBH		Chen et al. 2020, 47.
GER-1983	November 1983	Germany	SMH Bank collapse: private consortium organizes emergency rescue, ca. DM 600M.	AHEL, AHCI	PRI-PRI	Financial Times, November 8, 1983.
KW-1982	Late 1983	Kuwait	Central Bank deposits KD 200M in support for ailing banks.	BBEL		Craig 2019.
MO-1983	1983-1984	Morocco	Macro-pru and liberalization measures over 1980s documented in Jbili, Enders, and Treichel (1997, 11ff.).	ORL		Jbili, Enders, and Treichel 1997, 11ff.; Reinhart/Rogoff
TW-1983	1983-1984	Taiwan	Recurrent scandals and volatility emanating from "Underground Investment Companies" (UICs). By 1989, legal amendments to bank UICs.	ORL		Lee 1998, 19ff.; Reinhart/Rogoff
MRT-1984	1984	Mauritania	At present, no crisis interventions identified.	NO/I		Laeven and Valencia.
TH-1983	April 1984	Thailand	32 banks receive liquidity assistance, including April 1984 "lifeboat scheme"; five institutions directly rescued.	BBEL, BBCI		Lauridsen 1998, 1578.

US-1984	May 1984	United States	May 1984: Continental Illinois receives US\$ 1.5BN capital infusion from FDIC, supports depositors beyond US\$ 100,000 limit; support for US\$ 4.5BN in bad loans.	AHAG, AHCI, AG			Swary 1986; Reinhart/Rogoff
PHP-1984	June 1984	Philippines	Since early 1984, at least 30 savings banks fail. Run on largest s. bank, Banco Filipino. Central Bank advances emergency funds in ad hoc fashion (949M pesos), but stops aid by July.	AHEL			Financial Times, July 24, 1984.
COB-1982	July 1984	Columbia	"Financial capitalization fund" established at Banco de la Republica to support capitalization of banking system by co-investment schemes with private parties.	BBCI	SPV	PRI-PRI (partly)	Caballero Argaez and Montoya 2006, 115.
UK-1984	September 1984	United Kingdom	Johnson Matthey Bankers (JMB) "lifeboat" operation. Bank of England buys JMB for GBP 1, and provides loan loss guarantees (GBP 75M), as well as loan in form of deposit (GBP 100M).	AHEL, OLG			Hall 1987; Reinhart/Rogoff; Turner 2014, 53f
MY-1984	September 1984	Malaysia	GBP 835M government rescue package for Bank Bumiputra, via combination of loans, NPL sales and direct capital injections from Petronas.	АНСІ	Industry (partly)		Financial Times, September 15, 1984; WSJ September 17, 1984.
DK-1984	December 1984	Denmark	Rescue of Kronebanken via Central Bank (providing liquidity) and three private banks (providing DKr 500M guarantees against losses). Central Bank pledges to cover all liquidity needs. By 1985, merger with Provinsbanken.	AHEL, OLG, RES		PRI-PRI (partly)	Financial Times, December 19, 1984.

	March 1985	Canada	CCB receives CAD 225M aid in March 1985 in joint public-private package. Bank of Canada provides CAD 1.6BN in liquidity till July. Problem assets are identified for purchases.	AHAM, AHEL	PRI-PRI (partly)	Dean 1988, 5f.; Goodhart and Schoenmaker 1992, 403.
CAD-1983	September 1985	Canada	Inspector General advises closure of CCB and Northland Bank following continued weakness. CAD 900M is paid to uninsured depositors.	AG, RES		Goodhart and Schoenmaker 1992, 403.
	October 1985	Canada	Separate CAD 2.9BN liquidity advanced for struggling Continental Bank from October, from BoC and chartered banks. Lloyd's Bank takes over bank in 1986, with government facilitating takeover. Further CAD 975M advances to Bank of British Columbia, which is taken over by HSBC, which receives CAD 200M payment from deposit insurance fund.	AHEL, RES	PRI-PRI (partly)	Goodhart and Schoenmaker 1992, 404f.
US-1984	March 1985	United States	Runs on Home State in Ohio and other banks. Ohio announces est. of new insurance fund, and subsequently bank holiday, reorganization of state deposit insurance.	AG, SBH, ORL		Chen et al. 2020, 47.
PR-1983	1983-1990	Peru	1987 nationalization law by Garcia administration, affecting ten private banks, 23 insurance houses. Some private sector involvement in early phase of crisis (Banco Comercial 1982 assistance).	BBCI	PRI-PRI (partly)	Morris 1990, 98; Liebana 2001; Reinhart/Rogoff
BRL-1985	1985	Brazil	Central Bank commits to honoring overseas short-term debts of <i>Comind</i> and <i>Auxiliar Bank</i> , but banks go into receivership.	OLG		Reinhart/Rogoff

GN-1985	1985	Guinea	Six public banks liquidated, arrangements for recap of private bank; deposit reimbursements 3% of GDP.	AG, AHCI, RES	STOW (partly)	Caprio and Klingebiel 1996, 29; Laeven and Valencia.
VN-1985	1985	Venezuela	Banco de Comercio bankrupt: FOGADE assumes control and liquidates bank; depositors reimbursed.	AG, AHEL		De Krivoy 2000, 33f.
UG-1985	1985-1987	Uruguay	State-owned Banco Republica takes over Banco Comercial and Banco Caja Obrera, as well as local subsidiaries. Substantial public loss absorption after initial debt moratoria prove insufficient.	BBCI, DPM	STOW	Morris 1990, 88f.
US-1984	May 1985	United States	Bank runs in Maryland after fears over Old Court S&L. Government establishes new deposit insurance fund and orders withdrawal limits, deposit insurance reforms.	AG, SBH		Chen et al. 2020, 48.
SAF-1985	August 1985	South Africa	Government closes stock exchange in August; moratorium on short-term debt. R 1.5BN low-interest loan for struggling <i>Bankorp</i> .	AHEL, DPM, SBH		Governor's Panel, 2004; Demirguc-Kurt and Detragiache 2005.
KY-1985	1985-1989	Kenya	Forced mergers and liquidations, including establishment of Consolidated Bank of Kenya in 1989.	RES		Mutuota 2000, 2ff.; Reinhart/Rogoff

KOR-1985	1985-1988	Korea	Structural problems result in merger or liquidation of 78 firms over 1986-7. Preferential liquidity provision by central bank. USD 5.9BN net uncovered bank liabilities.	BBEL, RES			World Bank 1989, 71; Reinhart/Rogoff
MY-1985	December 1985	Malaysia	Stock exchange holiday following Pan-Electric collapse and repeated bank runs. Bank Negara begins ad hoc emergency lending.	AHEL, SBH			Sheng 1996, 114; Reinhart/Rogoff.
ICE-1985	December 1985	Iceland	Útvegsbanki is supported by central bank after bankruptcy of major client. Restructuring and eventual privatization in 1990.	AHEL, RES		STOW	Einarsson et al. 2015, 22.
COB-1982	December 1985	Columbia	Amid deterioration of bank system solvency, Law 117 establishes FOGAFIN fund to recapitalize banking system and (selectively) guarantee deposits. Banco de Colombia, Granfinanciera, and Pronta are nationalized via FOGAFIN in the first days of 1986. Further "guarantee capital" deployed for Banco del Colombia.	BBCI, AG, ASG	SPV		Caballero Argaez and Montoya 2006, 117f.
PT-1986	1986	Portugal	At present, no crisis interventions identified.	NO/I			Demirguc-Kurt and Detragiache 2005.
MY-1985	July 1986	Malaysia	Beginning of DTC wave of failures (KOSATU collapse): central bank freezes assets of affected cooperatives and places selected ones under receivership/administration. Wide-ranging probes and auditing.	RES, ST			Sheng 1996, 114ff.

	August 1986	Malaysia	Central Bank injects capital and restructures three tumbling medium-sized banks, alongside new private equity subscriptions and subordinated loans. Depositors in failing DTCs are fully reimbursed.	AG, AHCI, BBEL, RES		PRI-PRI (partly)	Sheng 1996, 118; Reinhart/Rogoff.
KW-1986	1986	Kuwait	Ca. 40% of bank loans are NPLs, threat of systemic banking collapse. "Highly concessional loans" are provided to sector via government.	BBEL			World Bank 1989, 71.
DK-1987	March 1987	Denmark	Rescue of 6th July Bank: Danish Banking Association guarantees non-bank deposits, and central bank provides liquidity to Sydbank for takeover. Capital injections by two mortgage banks.	AG, AHEL, BAIL	ASSOC (partly)	PRI-PRI (partly)	Goodhart and Schoenmaker 1993, 405f.
BOL-1987	June 1987	Bolivia	Major commercial debt restructuring agreement under IMF auspices; broader currency/inflation crises. Under Supreme Decree 21660 (June 10, 1987), Banco Central de Bolivia assumes debts of three major state-owned banks, Banco del Estado, Banco Agricola, Banco Minero.	BBAM, other		STOW	Reinhart/Rogoff; Kehoe, Machicado, and Peres-Cajias 2019.
US-1984	October 1987	United States	Greenspan Fed engages in open market operations directly following crash, publicly affirms liquidity provision, and liberalizes policies of lending own UST securities from Fed portfolio to ease market concerns on counterparty risks. Fed orchestrates continued private lending behind the scenes, succeeds in restoring confidence.	MLA, ORL	Market	PRI-PRI (partly)	Garcia 1989; Carlson 2007, 17-22.
DK-1987	October 1987	Denmark	Collapse of C&G Bank: private recaps prove insufficient, as does unsecured central bank liquidity assistance. By	AG, AHCI, AHEL, RES			Goodhart and Schoenmaker 1993, 406.

			special parliamentary decree, DKR 50M in deposits are guaranteed.				
COS-1987	November 1987	Costa Rica	Bank runs after collapse of Consorcia Cretiticia: central bank lowers reserve requirements to provide liquidity and lends Colones 950M to state-banks to buy general regulated bank certificates across the market.	BBEL, CRL		STOW (partly)	Financial Times, April 14, 1988; Reinhart/Rogoff
CM-1987	1987	Cameroon	Rise in bad loans amid oil price plunge; intl. bank disinvestments; state gradually privatizes state banks, major bank reform package in 1989 –focused on liquidations, public deposit write-offs, and bank debtor compensations.	BBCI, RES		STOW	IMF 2007, 32; Laeven and Valencia.
BA-1987	1987	Bangladesh	Significant share of NPLs reported. L/V report some associated debt/GDP and liquidity costs.	BBEL			Laeven and Valencia.
PR-1987	October 1987	Peru	Widespread financial sector crisis amid external default in 1987 and capital flight; bank nationalization law in October 1987, but subsequent attempts at implementation flounder. No attempt at realistic private owners' compensation.	RES			Maxfield 1992, 93ff.
SZ-1987	1987	Switzerland	Swiss "Regional Bank Crisis" over 1988-1995; various cantons recapitalize or restructure state-owned banks (see below). Berner Kantonalbank transfers SFR 6.6BN bad assets to AMC ("Dezennium Finanz AG") with public loss guarantees.	AHAM, OLG	SPV (partly)	STOW	Staub 1998, 655; Birchler 2007; Stünzi 2018.
MY-1985	1987	Malaysia	Cooperative Central Bank put into receivership; central bank provides M\$ 323M liquidity facility.	AHEL, RES			Sheng 1996, 120.

DK-1987	1987-1992	Denmark	Multiple direct rescues (capital injections) and large-scale liquidity support, incl. DKR 850M for Sjovinnubanken and various others. In some cases, authorities demand private recap efforts by shareholders (i.e. C&G Banken, 1987).	BBEL, BBCI		PRI-PRI (partly)	Financial Times, February 3, 1993; Reinhart/Rogoff; Abildgren 2010, 170ff.
NZL-1987	1987-1990	New Zealand	Privatization program includes Bank of New Zealand float; some increase in daily cash liquidity by RBNZ in November 1987 following U.S. crash (to USD 30m). Further interventions in November 1990 (s.b.)	BBEL			RBNZ 1988, 32; Reinhart/Rogoff
NIC-1987	1987-1996	Nicaragua	Deep economic and financial crisis, inflation >15,000% p.a. Central Bank assumes FX losses, reimbursed by Treasury.	BBEL		STOW	Ocampo 1991; Reinhart/Rogoff
NOR-1987	March 1988	Norway	Sunnmorsbanken failure in March triggers first phase of banking crisis: privately-funded SBGF fund guarantees all Sunnmorsbanken liabilities, and further provides capital support (via capital certificates) and facilitating mergers.	AHCI, OLG, RES		PRI-PRI	Sandal 2004, 87; Haare, Lund, and Solheim 2016.
	March 1988	Norway	Norges Bank begins providing selected liquidity support.	AHEL			Sandal 2004, 87; Haare, Lund, and Solheim 2016.
SEN-1988	November 1988	Senegal	Major bank restructuring program initiated: government stakes limited to 25% of total equity; weak banks put into receivership, other recapitalized with private sector participation (i.e. Credit Lyonnais-Senegal, May 1989). AMC established.	BBAM, BBCI, RES	SPV (partly)	PRI-PRI (partly)	World Bank 1989, 8f.; Klingebiel 2000.

BEN-1988	1988	Benin	Major banking system restructuring, with liquidation of substantial share of system assets. AMC established.	BBAM, RES	SPV (partly)		Klingebiel 2000; Laeven and Valencia.
NP-1988	1988	Nepal	Surge in arrears at major banks and IMF program; RBB and NPL (main banks) are restructured and recapitalized in 1990.	BBCI, RES			Ozaki 2014, 2ff.; Laeven and Valencia.
IS-1988	1988	Israel	Shl 3.85BN monetary+government support program for banking sector after mounting losses, including acceleration of public recaps, and including loan restructuring program. Lowering of reserve requirements.xxix	AHCI, BBEL, CRL, RES			BoI 1989, 282ff.; Gurkov 1994.
CDI-1988	1988	Cote d'Ivoire	Major recapitalizations of four largest banks, accounting for 65-70% of banking system assets. Various restructurings, some of which end in liquidation (i.e. BNDA). AMC established.	BBAM, BBCI	SPV (partly)	STOW (partly)	Popiel 1994, 58; Caprio and Klingebiel 1996, 21; Klingebiel 2000.
MAG-1988	1988	Madagascar	Restructuring, privatization, and liquidation efforts – interest-free loans from Treasury for banks under restructuring. Recaps by new private owners.	AHEL, BBCI, RES			Popiel 1994, 58f.; Laeeven and Valencia.
CAF-1988	1988-1999	Central African Republic	Restructuring of two largest national banks, comprising 90% of system assets; multiple smaller bank liquidations.	RES			Kane and Rice 2001, 39ff.; Reinhart/Rogoff

PA-1988	1988-1989	Panama	Several months of banking holiday after U.S. intervention in Panama.	SBH			Reinhart/Rogoff
ELS-1989	1989	El Salvador	Nine state-owned commercial banks with deteriorating NPL balances.	NO/I			Reinhart/Rogoff
SAF-1989	1989	South Africa	"Some banks experienced problems". International sanctions, debt crisis from 1986 and international bank disinvestments from S.A., but no evidence of domestic bank interventions.	NO/I			Feinstein 2005, 224ff.; Reinhart/Rogoff
SRL-1989	1989-1993	Sri Lanka	State-owned banks with deteriorating NPL balances. Central Bank provides emergency liquidity to pay depositors, some restructurings. In 1993, recapitalizations of state banks (incl. Bank of Ceylon).	BBEL, BBCI, RES		STOW (partly)	Hemachandra 2011, 21; Reinhart/Rogoff
NOR-1987	May 1989	Norway	Norion Bank under fraud investigation and put under public receivership. De facto full reimbursement of depositors by Norges Bank (which takes NOK 47M loss).	AG, RES			Ongena, Smith, and Michalsen 2003, 86; Haare, Lund, and Solheim 2016, 23f.
SEN-1988	June 1989	Senegal	Amid banking crash, all outstanding bank sector liabilities to central bank (BCEAO) are restructured or liquidated. AMC is established to manage asset recovery ("Societe National de Reccouvrement").	BBAM, BBEL	SPV (partly)	STOW (partly)	World Bank 1989, 8f.; Popiel 1994, 59.

JOR-1989	August 1989	Jordan	Bank runs: central bank grants overdrafts for banking sector up to 10% of GDP.	BBEL			Caprio and Klingebiel 2003, 17.
US-1984	August 1989	United States	President Bush signs "Thrift Bailout Bill".	ORL			Madura, Tucker, and Zarruk 1993.
GH-1990	1990	Ghana	Establishment of NPRAT to manage bad assets (ca. 6% of GDP transferred), major bank restructurings and operational interventions. Various official sector bank recapitalizations over 1988-1992.	BBAM, BBCI, RES	SPV (partly)		Popiel 1994, 59; Antwi-Awasare and Addison 2000.
BUK-1990	1990	Burkina Faso	Mergers instituted among affected banks. AMC established to manage NPAs.	BBAM, RES	SPV (partly)		Popiel 1994, 59; Laeven and Valencia.
AUS-1989	June 1990	Australia	Farrow Corporation liquidation sparks liquidity assistance for depositors and pledge to assist other banks. A\$ 1.3BN in Farrow deposits guaranteed. In October, Reserve Bank publicly supports Metway and Melbourne banks.	AG, AHEL			Financial Times, July 4, 1990; Fitz-Gibbon and Gizycki 2001, 63, 65.
MX-1990	July 1990	Mexico	FOBAPROA established to purchase bad bank debts via private insurance contributions (initially).	BBAM	SPV	PRI-PRI	Sandoval 2010, 549.
AUS-1989	August 1990	Australia	State Bank of Victoria sold to Commonwealth Bank, which is part-privatized (30%) to finance deal. State government of Victoria covers bad debts in merchant arm (Tricontinental, A\$ 700M), with de facto federal gyt recap.	AHCI, RES		STOW	Gizycki and Lowe 2000; Official A.

BRL-1990	March 1990	Brazil	"Collor Plan" sees freezing of bank deposits above 50,000 Cruzados for 18 months (de facto expropriation and conversion to bonds).	BAIL, SBH		PRI-PRI	Crabtree 1991, 180; Reinhart/Rogoff
GT-1991	1991	Guatemala	"Two small state-owned banks closed".	RES			Reinhart/Rogoff
POL-1991	1990	Poland	1BN Zloty stabilization fund established by intl. donors to aid bank transition.	BBCI	SPV	STOW	Thorne 1993.
ID-1990	September 1990	Indonesia	Bank Duta rescued after foreign exchange losses. Quasi government institutions bail Duta out (President Soeharto's foundations).	AHCI			Abdulgani- Knapp 2007, 179.
FIN-1991	October 1990	Finland	Skopbank receives FIM 1.8BN capital injection from savings bank association.	AHCI	ASSOC	PRI-PRI	Sandal 2004, 85.
US-1984	October 1990	United States	Run on Rhode Island banks, incl. Heritage Loan. RISDIC injects capital. Some borrowings by banks from RICUL-CCU, and by Jan-1991 governor freezes deposits. Gradual unfreezing, reimbursements, and reorganization of deposit insurance.	AG, AHEL, SBH		PRI-PRI (partly)	Chen et al. 2020, 49f.
NZL-1987	November 1990	New Zealand	BNZ troubles: following 1989 recap, government USD 250M recap together with Capital Markets Equity Ltd. AMC ("Adbro") set up to unload USD 2.8BN bad assets.	AHCI, AHAM	SPV (partly)	PRI-PRI (partly)	Hunt 2009, 35.

TW-1990	1990	Taiwan	Further UIC insolvencies after 1989 legal reforms, banning "Underground Investment Companies".	ORL	Lee 1998, 19f.; Baron, Verner, Xiong 2021.
LB-1990	1990	Lebanon	Eleven banks turn to emergency central bank lending amid financial crisis.	BBEL	Lindgren, Garcia, and Saal 1998, 28; Laeven and Valencia.
SIR-1990	1990	Sierra Leone	Recapitalizations and restructurings of banks; some bank licenses are suspended.	BBCI, RES	Lindgren, Garcia, and Saal 1998, 31; Laeven and Valencia.
IT-1990	1990-1995	Italy	Decree in September 1993 requires mandatory enrollment of Italian banks in national deposit insurance scheme (IDPF); "58 banks merged" and major privatizations under Banking Law 218 of 1990 (i.e. BNL, Banco di Napoli).	AG, RES	Hertner 1994, 613, 629; Reinhart/Rogoff
DJI-1991	1991	Djibouti	Multiple bank failures; At present, no indications of interventions.	NO/I	Lindgren, Garcia, and Saal 1996, 24; Laeven and Valencia.
HK-1991	1991	Hong Kong	BCCI collapse and bank runs on Standard Chartered and Citigroup – government liquidates BCCIHK after unsuccessful attempts to find private buyer.	RES	Baron, Verner, Xiong 2020.

TZ-1991	1991	Tanzania	Creation of "Loans and Advances Realization Trust" (LART) to purchase bad assets from state-owned banks.	BBAM	SPV	STOW	Nord et al 2009, 40f.
GG-1991	1991	Georgia	Large-scale privatizations, liberalizations, restructuring of Gosbank in 1991; new wave of STOW reforms (mergers and liquidations) by mid-1995, after 1993-1994 hyperinflation.	RES		STOW (partly)	Amaghlobeli, Farrel, and Nielsen 2003; Laeven and Valencia.
LIB-1991	1991	Liberia	At present, no indications of relevant interventions.	NO/I			Laeven and Valencia.
DRC-1991	1991	DR Congo	Insolvencies of major national banks amid surge in NPAs. Individual recap of STOW bank with private participation.	AHCI		PRI-PRI (partly) STOW	Kane and Rice 2001, 39ff.; Laeven and Valencia.
CR-1991	1991	Croatia	Yugoslavia central bank seizes Croatian bank and currency reserves; Croatian government passes deposit freeze and issues emergency SOE/bank bonds.	BBEL, SBH	Industry (partly)	STOW	Skreb 2004, 8f.
US-1984	January 1991	United States	Bank of New England bankruptcy: FDIC controversially announces insurance of all deposits, even those >US\$100,000.	AG			Lamm and O'Keefe 1997, 375f.
NOR-1987	January 1991	Norway	Government announces creation "Government Bank Insurance Fund" (GBIF), capitalized with 5BN Kroner to insure depositors – via special loans to private sector guarantee funds.	BBEL, AG	SPV		Steigum 2009, 62; Haare, Lund, and Solheim 2016, 25.

CZK-1991	February 1991	Czechoslova kia	Transfer of 120BN Kcs in non-performing loans to newly established Consolidation Bank (split in 1993 due to country's political split).	BBAM		STOW	Thorne 1993, 21f.; Rod 2015, 413ff.
AUS-1989	1991	Australia	Collapse of State Bank of South Australia sparks capital injections, separation along good bank/bad bank model.	AHCI, RES			Fitz-Gibbon and Gizycki 2001, 66.
UK-1991	July 1991	United Kingdom	Banking instability after forced closure of Bank of Credit and Commerce International in July; fearing bank runs and interbank market vol., BoE sets up lifeboat fund with "several hundred million GBP" extended to smaller banks (incl. Invesco MIM) via clearing bank indemnities. Ca. GBP 115M in eventual BoE losses.	AHEL	Market		Financial Times, May 27, 1993; Logan 2001; Reinhart/Rogoff
EG-1991	1991	Egypt	In wake of BBCI collapse, depositors are granted permission to move funds to state-owned Bank Misr, which is given EGP 1BN public loan. Other private banks required to pay 0.5% of deposits to fund operation.	AG, AHEL		PRI-PRI (partly) STOW (partly)	Mohieldin 1995, 17.
FIN-1991	September 1991	Finland	Bank of Finland takes control of <i>Skopbank</i> after mounting losses, injecting FIM 15BN. Separation along good bank/bad bank model.	AHCI, AHAM			Sandal 2004, 85; Laeven and Valencia.
CZK-1991	Late 1991	Czechoslova kia	50BN Kcs provided for SOE debt relief (channeled via banks), and direct recapitalization of four commercial, two savings banks.	BBCI, OLG	Industry (partly)	STOW	Thorne 1993, 21f.

GRE-1991	1991-1995	Greece	At present, no indications of relevant interventions.	NO/I		Reinhart/Rogoff
TN-1991	1991-1995	Tunisia	Macro-pru measures and focus on financial sector liberalization amid IMF program, privatization wave over 1990s. Central Bank purchases of bad assets, incl. from Banque National de Agricole. State lending to development banks.	BBAM, BBEL, ORL	STOW	IMF 1998b, 12ff.; Jbili, Enders, and Treichel 1999, 11ff.; Reinhart/Rogoff
ALG-1990	1991-1997	Algeria	Repeated bank recapitalizations totaling 5% of GDP; further cash distributions of 11% of GDP to compensate for FX losses. Laeven and Valencia crisis costs differ. Schemes to restructure SOE bank overdrafts into mediumterm loans ("dispositive banques enterprises").	BBCI, BBEL, DPM	STOW	Iradian, Bazzoni and Joly 2000, 38.
ROM-1990	July 1991	Romania	Guarantee on 90 percent of all outstanding bank system NPLs (covered vol. Lei 150BN).	ASG	STOW	Thorne 1993, 25.
	Autumn 1991	Sweden	Foersta Sparbanken slides, receives SEK 8BN in guarantees and loans from government.	AHEL, OLG		Sandal 2004, 90; Reinhart/Rogoff; Laeven and Valencia.
SWE-1991	November 1991	Sweden	Nordbanken receives guarantee on equity issuance, SEK 20BN in restructuring aid. Securum, bank asset management company, capitalized with SEK 34BN.	AHCI, BBAM, BG	STOW	Sandal 2004, 90f.

NOR-1987	October 1991	Norway	Government creates "Government Bank Investment Fund", to inject direct capital into ailing banks. "Government Bank Insurance Fund" enlarged by additional 6BN Kroner. Fokus Bank and Christiana Bank nationalized via equity capital injections.	ASG, BBCI	SPV		Steigum 2009, 62f.
	December 1991	Norway	De facto nationalization of De Norske Bank via "Government Bank Investment Fund".	AHCI	SPV		Steigum 2009, 62f.
HUG-1991	December 1991	Hungary	Government guarantee on 50% of outstanding NPLs at three major banks for five years, Ft 10.5BN.	ASG			Thorne 1993, 22.
BUG-1991	Late 1991	Bulgaria	Government guarantees all bank loans, to deal with NPL issue (total: 47% of GDP).	OLG		STOW	Thorne 1993, 24.
US-1984	January 1992	United States	US\$ 1.2BN investment by FDIC as receiver into CrossLand, to facilitate re-sale and keep bank open. Successfully exited Aug-1993.	AHCI, AHEL			Lamm and O'Keefe 1997, 360.
COG-1992	1992	Congo, Rep.	At present, no indications of interventions.	NO/I			Laeven and Valencia.
СН-1992	1992	Chad	Central bank consolidates NPL portfolios at main commercial banks.	BBEL			Lindgren, Garcia, and Saal 1998, 23; Laeven and Valencia.

BOS-1992	1992	Bosnia	World Bank and IMF involvement promoting banking privatization and restructuring of state-owned banks.	RES	STOW (partly)	World Bank 2004, 12ff.; Laeven and Valencia.
KY-1992	1992-1995	Kenya	Looming collapse of Trade Bank and Pan African Bank. Public-private bank consortium, led by Kenya Commercial Bank, provides KSH 600M in emergency lending in Feb. 1992; substantial central bank liquidity support or via Deposit Protection Fund. Various banks liquidated.	BBEL, RES	PRI-PRI (partly)	Financial Times, February 14, 1992; Brownbridge 1998, 182; Reinhart/Rogoff
NG-1992	1992-1995	Nigeria	Nigeria Deposit Insurance Corporation assumes control of distressed National Bank of Nigeria in Jan. 1992;	RES		Financial Times, January 7, 1992; Reinhart/Rogoff
ANG-1992	1992-1996	Angola	"Two State-owned commercial banks close to insolvency". Liquidations and gradual reform of dominant banks, including NBA.	RES	STOW	Ferreira and De Oliveira 2018; Reinhart/Rogoff
CN-1992	1992-1999	China	Significant capital injections into State-owned commercial banks (SOCBs), ca. US\$ 33BN in 1998 alone.	BBCI	STOW	Garcia-Herrero, Gavila, and Santabarbara 2006.
FIN-1991	March 1992	Finland	FIM 8BN capital injection into banking sector via preferred capital certificates.	BBCI		Sandal 2004, 86.

	April 1992	Finland	GGF authorized to lend to banking sector via capital certificates and loans, and to guarantee bank credit.	BBEL, OLG	SPV		Sandal 2004, 86.
SWE-1991	April 1992	Sweden	Gota Bank receives SEK 20BN capital injection, transfer of bad assets to Retriva AMC.	AHCI, BBAM	SPV		Sandal 2004, 91.
EST-1992	April 1992	Estonia	Bank of Estonia takes over Savings Banks after it suspends non-Russian payments, assumes Moscow Saving's Bank assets.	AHCI, BBAM			Fleming, Chu, Bakker 1996, 10.
IN-1993	April 1992	India	RBI uncovers fraud at Harshad Mehta Group (HMG) - personal assets frozen and group and affiliates put under receivership and liquidated.	RES			News India, June 19, 1992.
SZ-1987	June 1992	Switzerland	Establishment of regional bank crisis fund: SNB, invoking LLR mandate, contributes CHF 30M in funding, amid continued financial volatility.	AHEL	SPV	PRI-PRI (partly)	Birchler 2007, 396.
FIN-1991	August 1992	Finland	Parliament announces blanket guarantee for banking sector – announcement renewed until 1998.	BG			Sandal 2004, 86.
SWE-1991	September 1992	Sweden	Swedish Parliament announces blanket guarantee for banking sector (in effect until July 1996). Riksbank uses FX reserves to make deposits into bank sector.	BG, BBEL			Sandal 2004, 91.
JP-1992	September 1992	Japan	Private creditor bailout for three affiliates of Nippon Credit Bank, with NPAs reported at JPY 1.1TN.	AHEL		PRI-PRI	American Banker 9 1992, 12.

EST-1992	November 1992	Estonia	Bank of Estonia places moratorium on TCB, UBB, and NESB amid liquidity crisis.	DPM		Laeven and Valencia.
DK-1987	November 1992	Denmark	Looming collapse of Varde Bank: Nationalbanken cooperates with private banks to set up Kr 750M guarantee fund (on loan losses), pledges liquidity support.	ASG, OLG	PRI-PRI (partly)	Abildgren 2010, 175f.
ID-1992	November 1992	Indonesia	Distressed Summa Bank supported by consortium of 17 private banks to guarantee small depositors and prevent spillover: ca. Rp 150BN volume.	AG, AHEL	PRI-PRI	Financial Times, November 20, 1992; Reinhart/Rogoff
HUG-1991	December 1992	Hungary	Credit consolidation program after fresh bank failures: government covers credit losses on existing credits, and balance sheet clean-up costs for banks with CAR <7.5% NBH provides emergency assistance to Konzumbank and IBH.	AHEL, BBAM, ASG		Abel and Szakadat 1997, 174ff.
ICE-1993	1993	Iceland	Landesbanki (state-owned) receives 1%/GDP capital injection after slide.	AHCI	STOW	Einarsson et al. 2015, 22; Reinhart/Rogoff
ER-1993	1993	Eritrea	At present, no indications of interventions.	NO/I		Laeven and Valencia.
TG-1993	1993	Togo	At present, no indications of interventions.	NO/I		Laeven and Valencia.

POL-1991	February 1993	Poland	Decree for the recapitalization of Ten state-owned banks amid continued banking system problems, via 5- and 15-year government bonds.	BBCI		STOW	NBP 2001, 17.
SRL-1989	March 1993	Sri Lanka	Government issues bonds equivalent to 4.8% of GDP to recapitalize two major commercial banks with significant NPL problems.	АНСІ		STOW	Goodhart et al. 1998, 28f.
SLV-1993	April 1993	Slovenia	Founding of Bank Rehabilitation Agency to restructure main banks: bad debt transfers, swapped for state bonds up to DM 2.2BN; equity replaced with subordinated claims on banks; various restructurings/liquidations.	BBAM, BBCI, RES	SPV	PRI-PRI (partly)	Stiblar 2004, 213ff.
JP-1992	August 1993	Japan	Daiwa Bank bails out Cosmo Securities after USD 700M loss, to prevent market disruptions.	AHCI		PRI-PRI	The Economist, August 21, 1993.
ROM-1990	1993	Romania	Bank recapitalization program, Lei 50BN.	BBCI		STOW	Thorne 1993, 26.
GI-1993	1993	Guinea	Various insolvent banks restructured; private banks' past losses absorbed, recapped, and placed under interim administration.	BBCI, RES			Caprio and Klingebiel 1996, 22; Laeven and Valencia.
GY-1993	1993	Guyana	At present, no indications of interventions.	NO/I			Laeven and Valencia.
MAC-1993	1993	Macedonia	At present, no crisis interventions identified.	NO/I			Laeven and Valencia.

IN-1993	1993-1998	India	Ca. 165BN Rupee capital injections into national banks over 1993-1999 (i.e. ca. 1.6%/GDP); partial privatizations via amendment of 1955 SBI Act.	BBCI, other		STOW	Nandy 2010, 40ff.; Reinhart/Rogoff
ES-1993	December 1993	Spain	Banesto intervention by Bank of Spain. Later sold to Banco de Santander.	AHCI, RES			Tortella 1997, 243.
SZ-1987	December 1993	Switzerland	Banque Vaudoise de Credit on brink of default: Canton extends full guarantee to prevent closure, and integrates bank into BCV.	BG, RES			Birchler 2007, 397f.
FRA-1994	March 1994-1995	France	Credit Lyonnais state support by government: FFr 40BN asset management program (via <i>OIG</i> and <i>CDR</i>), with losses partially covered by public; FFr. 4.9BN capital increase subscribed by public. FRF 190BN guarantee.	AHCI, ASG, BBAM, RES	SPV (partly)	STOW	EC, July 26, 1995.
TK-1994	May 1994	Turkey	"Blanket guarantee" on all savings deposits.xxx	AG			Laeven and Valencia 2012, 1223.
KZ-1994	July 1994	Kazakhstan	Establishment of public debt resolution agencies (de facto bad banks cum state lenders): Rehabilitation Bank (RB), Agricultural Support Fund (ASF), and Exim Bank, which begin to take over private sector NPLs, other bad assets.	BBAM	SPV		Hoelscher 1998, 12f.
EST-1995	August 1994	Estonia	Social Bank on verge of bankruptcy: BOE places Bank into moratorium, provides liquidity assistance. By 1995 split into good bank/bad bank.	AHEL, DPM			Fleming, Chu, Bakker 1996, 10.

	September 1994	Mexico	Government assumes control of Union and Cremi Bank via FOBAPROA after frauds discovered. Later Banpais added.	AHCI	SPV	Graf 1999.
MX-1994	1994-2000	Mexico	12 banks nationalized and NPL portfolios cleaned up by FOBAPROA between end-1994 and August 1997. FOBAPROA buys NPL portfolios above market value – supplies banks with promissory note assets in return. FOBAPROA mandates subordinated debt issuance by systemic banks, acquires these debt stocks via loans from central bank (volume ca. USD 1BN by March 1995).	BBAM, BBCI, RES		Graf 1999; Reinhart/Rogoff
HT-1994	1994	Haiti	At present, no indications of interventions.	NO/I		Laeven and Valencia.
MOG-1994	1994	Mongolia	Bank crisis triggered by collapse of CMEA trading system: Bank of Mongolia places banks under conservatorship and provides liquidity assistance of ca. 2% of GDP.	BBEL, RES		World Bank 2005, 2f.
DRC-1994	1994	DR Congo	"Two state-owned banks liquidated and two privatized. In 1997, 12 banks had serious financial difficulties.".	RES		Kane and Rice 2001, 39; Reinhart/Rogoff; Laeven and Valencia.
ID-1994	1994	Indonesia	Surge in NPAs to 17% of bank system assets, concentrated at STOWs. No interventions reported at present.	NO/I		Reinhart/Rogoff

ETH-1994	1994	Ethiopia	Restructuring, purchase of bad assets by government at one bank.	AHAM, AHCI	STOW	Kane and Rice 2001, 40; Reinhart/Rogoff
BUR-1994	1994	Burundi	Civil War Period and 1994 jump in inflation distressing banks. No relevant interventions mentioned in Nkurunziza, Ndikumana, and Nyamona (2012) or others.	NO/I		Nkurunziza, Ndikumana, and Nyamona 2012; Laeven and Valencia.
VN-1994	1994	Venezuela	FOGADE, deposit insurance provider, quadruples coverage of insurances. Several institutions nationalized, with some liquidations. Guarantee Fund provides assistance to 15 institutions.	AG, BBCI, BBEL		Jacome 2008, 46; Laeven and Valencia.
BOL-1994	November 1994	Bolivia	Initial central bank LLR support from Tequila crisis fallout. Later increasingly discretionary deposit guarantees via non- interest-bearing certificates.	BBEL, AG		Jacome 2008, 39.
POL-1991	December 1994	Poland	Law on the Bank Guarantee Fund: formalization of deposit guarantee system and solvency assistance framework for banks.	AG, ORL		NBP 2001, 18f.
BRL-1994	December 1994	Brazil	BANESPA and BAERJ emergency interventions by Brazilian central bank.xxxi	AHCI, AHEL	STOW	Mettenheim 2010, 31; Laeven and Valencia.

JAC-1994	December 1994	Jamaica	"Blaise Financial Entities" (BFE) put under temporary state management after frauds revealed. Full reimbursements of depositors and restructuring efforts led by new entity (FIS).	AG, RES	SPV (partly)		Kirkpatrick and Tennant 2002, 9.
JP-1992	December 1994	Japan	Public-private resolution of two major urban credit cooperatives (Tokyo Kyowa & Anzen Bank): establishment of <i>Tokyo Kyoudou Bank</i> with JPY 40BN capital.	AHCI, RES		PRI-PRI (partly)	Nakaso 2001; Gandrud and Hallerberg 2017.
COS-1994	December 1994	Costa Rica	Banco Anglo Costarricense (BAC) is closed, with full deposits guaranteed by central bank (BCCR). Remaining deposits transferred to public sector banks. Colones 30,000M volume.	AG, RES		STOW	Alvarado and Peralta 1996; Jacome 2008, 43f.; Reinhart/Rogoff
ARM-1994	1994	Armenia	At present, no crisis interventions identified.	NO/I			Laeven and Valencia.
GIB-1995	1995	Guinea- Bissau	Sharp rise in NPAs, up to 45% of total assets. No interventions reported.	NO/I			Kane and Rice 2001; Laeven and Valencia.
HUG-1995	1995	Hungary	Magyar Hitel Bank, Mezobank split into good bank bad bank and sold off, after bank recapitalizations for at least 8 banks and bailouts. Various interventions into underlying corporate debtors to address NPAs.	BBCI, RES	Industry (partly)	STOW (partly)	Abel and Szakadat 1997, 179ff.; Hawkins and Turner 1999, 69; Baron, Verner, Xiong 2021.

CM-1995	1995	Cameroon	Several bank closures and restructurings amid rise in NPAs.	RES			Kane and Rice 2001, 39ff.; Laeven and Valencia.
UA-1995	1995	Uganda	Government interventions and recap for Nile Bank and Sembule Bank.	AHCI			Kane and Rice 2001, 49.
RUS-1995	1995	Russia	Actual intervention chronology begins with some delay, see events from 1997 below.	NO/I			Reinhart/Rogoff
ZB-1995	1995	Zambia	Commerce Bank, Meridian Bank, African Commercial Bank collapse. Ca. 1.4% of GDP restructuring/recap costs.	BBCI, RES			Kane and Rice 2001; Laeven and Valencia.
ZI-1995	1995	Zimbabwe	Commercial Bank of Zimbabwe taken over by central bank.	RES			Kane and Rice 2001; Laeven and Valencia.
KYR-1995	1995	Kyrgyz Republic	Sharp rise in NPAs after end of SOE loan support from central bank; DEBRA established as AMC to manage bad assets, macro-pru reforms implemented. Liquidation of problem banks.	BBAM, RES	SPV (partly)	STOW (partly)	Siegelbaum et al 2002, 17ff.; Aseinov and Karymshakov 2018, 75ff.; Laeven and Valencia.

AZ-1995	September 1996	Azerbaijan	Bank reforms in context of IMF program: four main state- owned banks put under ANB supervision and restructuring programs initiated to liquidate or privatize banks.	RES	STOW	IMF 1997, 7; Laeven and Valencia.
EST-1995	1995	Estonia	Protracted volatility and structural banking weakness over 1992-1998 amid IMF involvement: Bank of Estonia intervenes via repeated capital injections and assumptions of liabilities (i.e. Forekspank); weaker institutions (i.e. Maapank) are shut down.	BBCI, OLG, RES		Fleming, Chu, and Bakker 1997, 43f.; Eestipank 1998.
BRL-1994	January 1995	Brazil	Intervention into Banerj and Banespa state banks by central bank after mounting losses. Heavy recourse to liquidity assistance from 2H-94 already.	AHCI, AHEL	STOW	Flynn 1996, 419.
ARG-1995	January 1995	Argentina	US\$ 1,040M establishment of private sector "safety net" for illiquid wholesale banks, in return for lower reserve requirements by central bank. Use of private sector deposits to fund illiquid banks via public <i>Banco de la Nacion</i> .	BBEL, CRL	PRI-PRI (partly)	Carrizosa, Leipziger, and Shah 1996.
UK-1995	February 1995	United Kingdom	Barings collapse: Bank of England attempts weekend bailout, but fails.	NO/I		BoE 1995, 12; Reinhart/Rogoff
AT-1995	March 1995	Austria	Two well-known institutions, BHI of Graz and Roessler Bank, default. Private guarantee fund is set up to make whole 98% of deposit volumes not covered by state deposit scheme – but Schilling 30M losses still ensue. xxxii Roessler is taken over and restructured.	AG, RES	PRI-PRI	Pilz 1995, 31f.; Riffert 2005; Baron, Verner, Xiong 2021.

SWA-1995	March 1995	Swaziland	Central Bank takes over Meridien BIAO, as well as Swaziland Development and Savings Bank.	RES			Caprio and Klingebiel 2003, 13.
ARG-1995	March 1995	Argentina	Establishment of US\$ 2BN "Trust Fund" which advances favorable (subordinated) bank loans upon meeting prudential capital guidelines. Trust Fund can also cover outstanding central bank rediscounts.	BBEL, RES	SPV		Carrizosa, Leipziger, and Shah 1996.
LAT-1995	April 1995	Latvia	Bank of Latvia provides "modest liquidity support" to struggling <i>Bank Baltija</i> , subsequently takes over management of bank. Depositor recompensation enacted: maximum of US\$ 1,000 per depositor, spread over four years.	AHEL, AHCI, AG			Fleming and Talley, 1996.
BUG-1996	May 1995	Bulgaria	Severe bank crisis affecting state-owned and private banks; Bulgarian Central Bank (BNB) and State Savings Bank (SSB) provide extensive liquidity (ca. 5.8% of GDP), and Treasury provides broad recapitalization by overpaying for "zonk bonds"; freezing of foreign deposits, and conservatorship of several banks by May 1996.	BBCI, BBEL, RES, SBH		STOW (partly)	IMF 1999, 84ff.; Laeven and Valencia.
PG-1995	June 1995	Paraguay	Central Bank of Paraguay (CBP) intervenes in banks making up more than 15% of national deposit base; from June, CBP offers "massive liquidity support" to distressed banks to cover deposit outflows and other liabilities due. Deposit guarantees for institutions wound down.	BBCI, BBEL, AG			Garcia-Herrero 1997; Jacome 2008.

KZ-1995	Mid-1995	Kazakhstan	Emergency lending by central bank (NBK) to Turan Bank, as broader liquidity crisis underway. Special "liquidation department" inside NBK closes down circa 60 smaller banks over course of year.	AHEL, RES			Hoelscher 1998, 11, 20f.
BRL-1994	August 1995	Brazil	Rescue of <i>Economico</i> , <i>Nacional</i> banks, and establishment of federal deposit insurance fund via <i>PROER</i> (up to R\$ 20k).	AG, AHCI	SPV (partly)		Mettenheim 2010, 30ff.
TW-1995	August 1995	Taiwan	Takeover of Changhua City Bank by state-owned Cooperative Bank of Taiwan. Ca. 1BN USD provided to eight other banks to stem deposit outflows. String of additional restructurings/bailouts follows into 1996.	BBEL, RES		STOW	AP 1995; Lee 1998, 20f.; Reinhart/Rogoff
BOL-1994	September 1995	Bolivia	FONDESIF, bank assistance fund, is founded. Ad hoc capital injections into stressed banks, including <i>Bolivian American Bank</i> .	АНСІ	SPV		Jacome 2008, 39.
ROM-1990	November 1995	Romania	Romanian Central Bank places Banca Felix under supervision and advances at least GBP 215M in emergency loans.	AHEL			Financial Times, May 29, 1996. Reinhart/Rogoff.
LIT-1995	December 1995	Lithuania	Moratorium by Central Bank on Innovation Bank, Litimpex, and Vakaru liabilities.	DPM			Fleming, Chu, Bakker 1996, 12.
BRL-1994	March 1996	Brazil	R\$ 8BN recapitalization of Banco do Brazil after significant losses. Already majority state-owned.	АНСІ		STOW	Flynn 1996, 420; Cardoso and Helwege 2001, 162.

TH-1996	May 1996	Thailand	Bank of Thailand assumes control of Bangkok Bank of Commerce (BBC).	AHCI	Dreyer 2020, 1.
CR-1996	1996	Croatia	Recapitalization and reorganization of four big banks, totaling USD 473M.	BBCI, RES	Skreb 2004, 9f.
CZK-1996	June 1996	Czech Republic	De facto guarantee on deposits at 18 banks.	AG	Laven and Valencia 2012, 1224.
JAC-1996	July 1996	Jamaica	Runs on "Century Financial Entities" (CFEs) which are placed under temporary state management. Full reimbursement of 43,000 depositors.	AG, RES	Kirkpatrick and Tennant 2002, 9f.
EC-1996	1996	Ecuador	Central Bank of Ecuador intervenes into <i>Banco Continental</i> via subordinated loan after broader liquidity assistance to banks proves insufficient in its case. Deposits are guaranteed throughout the process.	BBEL, AHCI, AG	Jacome 2004; Jacome 2008, 39.
DOR-1996	1996	Dominican Republic	LLR and finance bank resolution applied to <i>Banco del Comercio</i> .	AHEL, AHCI.	Jacome 2008, 40.
YM-1996	1996	Yemen	High level of NPLs, political instability through 1990s; Banking Law of 1998 introduces range of macro-pru and regulatory reforms. Privatization efforts (incl. National Bank of Yemen).	other	Enders et al 2002, 41ff.; Laeven and Valencia.

KZ-1995	September 1996	Kazakhstan	Further NBK emergency lending to select institutions, incl. Turan and Kramds, and suspension of prudential requirements; forced merger of Turan and Alem banks (into TAB) and liquidation of Kramds by end of year.	AHEL, RES		Hoelscher 1998, 20f.
MAU-1997	1996	Mauritius	Two commercial banks closed by authorities.	RES		Kane and Rice 2001, 41; Reinhart/Rogoff
MOG-1996	1996	Mongolia	Bank of Mongolia injects large amounts of liquidity after sharp rise in NPAs and two small bank collapses; three banks either liquidated by BOM or placed under conservatorship; deposit rate floor abolished.	BBEL, ORL, RES		World Bank 2005, 3.
CN-1992	October 1996	China	Everbright Trust and Investment Company close to bankruptcy: PBoC orders RMB 5BN debt-to-equity conversion for state creditors to keep bank alive.	AHCI, BAIL	STOW	Xie 1999, 125.
PG-1995	December 1996	Paraguay	Continued banking sector volatility: Corfan Bank nationalized via merger with BNT (state-owned).	AHCI		IMF 2000, 11.
KZ-1995	January 1997	Kazakhstan	Government recaps restructured TAB Bank (Turan and Alem) with USD 90M.	AHCI		Hoelscher 1998, 20.
PG-1995	January 1997	Paraguay	Social Security Institute (IPS) nationalizes Banco de Desarrollo with G 26BN injection.	AHCI		IMF 2000, 11.

JAC-1996	January 1997	Jamaica	FINSAC established to provide banking recaps and liquidity assistance to entire financial sector. For some institutions, FINSAC purchases bad assets, but high degree of discretion involved.	BBCI, BBEL, BBAM	SPV		Kirkpatrick and Tennant 2002, 9ff.
	February 1997	Jamaica	Gvt issues blanket guarantee for all deposits in licensed deposit-taking institutions, pension funds managed by authorized institutions, and policy-holders funds in insurance companies.	AG			Laeven and Valenica 2012, 1223.
TH-1996	February 1997	Thailand	Bank of Thailand begins BHT 200BN emergency lending program to distressed banks via Financial Institutions Development Fund (FIDF).	BBEL			Radelet and Sachs 2000, 135.
1 III-1990	March 1997	Thailand	Forced merger by <i>Finance One</i> with Thai Danu Bank to stave off collapse. BHT 40BN capital injection into Finance One by FIDF.	AHCI, RES			Lauridsen 1998, 1581
JP-1992	April 1997	Japan	Bailout of <i>Nippon Credit Bank</i> : public-private capital injections, with JPY 80BN BoJ contribution via preferred shares. Full nationalization by Dec-1998.	АНСІ		PRI-PRI (partly)	Nakaso 2001, 14f.
TH-1996	June 1997	Thailand	Suspension for 30 days of 16 finance companies, organization of consolidation plans.	SBH			Lauridsen 1998, 1582.
PHP-1997	June 1997	Philippines	From mid-1997 banking sector under increasing stress, resorting to central bank emergency liquidity (peak in May 1998); additional macro-pru responses.	BBEL			Lindgren et al 1999, 18ff.; Laeven and Valencia.

NG-1997	1997	Nigeria	CBN orders recapitalization or liquidation of dozens of banking institutions over 1998-1999; various macro-pru responses (minimum paid up capital doubled, to NGN 1BN).	other, RES			CBN 1999, 18ff.; Reinhart/Rogoff
TW-1997	1997	Taiwan	Rising NPLs at banks and equity losses, but no exceptional crisis intervention identified.	NO/I			Reinhart/Rogoff
TN-1997	1997	Tunisia	Structural Adjustment Facility (SAF I) set up to restructure balance sheets and NPLs. Public subscription to equity increase at <i>Banque Nationale Agricole</i> (BNA).	BBAM, AHCI	SPV	STOW	Hibou 2011, 32f.
	August 1997	Thailand	Suspension of further 42 finance companies by authorities. Creditors at banks and finance comps. receive guarantee on all deposits, contingent and foreign liabilities, with minor exceptions.	BG, RES			Lauridsen, 1998, 1582, 1584;
TH-1996	October 1997	Thailand	Establishment of Financial Restructuring Agency (FRA) to oversee suspended finance companies. Establishment of Asset Management Company (AMC) to pool bad debts and organize asset disposal. Blanket guarantee for remaining private finance companies and local banks.	BBAM, BG, RES	SPV (partly)		Lauridsen 1998, 1583.
ID-1998	November 1997	Indonesia	16 private banks closed after IMF agreement.	RES			Sato 2005, 102.

VT-1997	November 1997	Vietnam	Volatility from mid-1997; Law on the State Bank and Law on Credit Institutions passed in 1998, focusing on macropru, capital adequacy, and supervision reforms;	ORL		Tam 2000; Laeven and Valencia.
KOR-1997	November 1997	Korea	Government announces establishment of bad bank inside KAMCO (Korean Asset Management Company), focusing on NPL purchases from private sector.	BBAM	SPV	He 2004, 4.
	November 1997	Korea	Significant extension of emergency liquidity over Nov-Dec 1997.	BBEL		Lindgren et al 1999, 19.
	November 1997	Japan	BoJ provides emergency liquidity to interbank market after failure of Sanyo Securities. Purchase of bills, repos, bilateral lending.	BBELxxxiii		Nakaso 2001, 23; Laeven and Valencia 2012, 1223.
JP-1992	November 1997	Japan	BoJ provides liquidity support to stem deposit outflows from <i>HTB</i> after failure. Peak: JPY 2.6TN in uncollateralized support; BoJ provides liquidity support for <i>Yamaichi Bank</i> after failure. Peak: JPY 1.2TN in support by December.	AHEL		Nakaso 2001, 23f.
ROM-1990	December 1997	Romania	USD 1BNcapital injection into ailing <i>Bancorex</i> and <i>Banca Agricola</i> by government.	AHCI		Bonin and Wachtel 2005.
KOR-1997	December 1997	Korea	Korea First Bank and Seoul Bank recapitalized, with at least KRW 13.2TN.	АНСІ	SPV	Kataoka 2001.

MY-1997	Early 1998	Malaysia	Up to Ringgit 35BN in emergency liquidity provided in the form of bank deposits (13% of GDP). Guarantee on all deposits at commercial banks and finance companies. xxxiv	AG, BBEL			Lindgren et al 1999, 18f.
TH-1996	January 1998	Thailand	Government takes over four medium-sized banks, including <i>Bangkok Metropolitan Bank</i> (BMB) via converting existing short-term loans into equity.	BBCI			Lauridsen 1998, 1585; Laeven and Valencia.
ID-1998	January 1998	Indonesia	IBRA (Indonesian Bank Restructuring Agency) established, blanket guarantee for deposits and other credits (ex-shareholder cap.) implemented. Liquidity support loans via central bank between Jan-Apr. total 4.5% of GDP.	BBEL, BBAM, BG	SPV		Sato 2005, 102, 112.
1D-1998	1998	Indonesia	Full nationalization of 12 private banks, including majors Bank Danamon, Bank BCA, Tiara Asia, which are later sold on to international bank consortia. Recapitalization of some private banks, recapitalization of state banks.	BBCI		STOW (partly)	Sato 2005, 103.
JP-1992	March 1998	Japan	JPY 400BN capital injection into <i>MUFJ Group</i> entities via subordinated bonds. JPY 449BN capital injection into Mizuho via subordinated bonds and preferred shares. JPY 200BN injected into <i>Sumitomo</i> .	BBCI			Nakaso 2001, 14ff.
FRA-1998	1998	France	FFr 125BN state aid package for <i>Credit Lyonnais</i> : funds earmarked to cover losses related to non-core asset sales, with aim of privatization.	AHAG, RES		STOW	EC 1998, 221/30ff.

CR-1998	March 1998	Croatia	Run on Dubrovacka Banka triggers systemic runs: volatility ends with bailout of two banks by taxpayers, six others go bankrupt; Croatian National Bank establishes new liquidity facility for distressed banks January 1999.xxxv	AHCI, BBEL		STOW (partly)	Kraft and Galac 2007; Deskar- Skrbic et al. 2019, 190ff.
MOZ-1998	March 1998	Mozam- bique	Protracted bank system instability amid World Bank-IMF involvement: BCM privatization and assumption of liabilities by Central Bank (BdM).	OLG		STOW	Caprio and Klingebiel 1996, 14; Hanlon 2002, 59f.
EC-1996	April 1998	Ecuador	Emergency LOLR-style loans from April 1998 and use of open market operations. Widening of existing deposit guarantees.	BBEL, AG			Jacome 2004 and 2008, 44; L/V (2018).
MY-1997	June 1998	Malaysia	Establishment of asset management company Danaharta Nasional Berhad, with mandate to purchase NPLs. Fully owned by central bank (BNM).	BBAM	SPV		Lindgren et al. 1999, 83.
HK-1998	August 1998	Hong Kong	HKMA intervenes in equity market to shore up stock values amid speculative attack: est. USD 15BN – boosting depressed bank indices.	BBCI	Market		Raymond 2010, 130f.
UKR-1998	August 1998	Ukraine	General bank volatility spillover from Asian crisis; NBU sets up guarantee-and-loan fund to address NPAs. IMF agreement focuses on bank resolution, liberalization measures and ensures NBU liquidity facilities.	BBEL, ASG, RES	Industry (partly)		IMF 1998; ITAR-TASS, October 26, 1998.

US-1998	September 1998	United States	LTCM default: Fed aids the brokering of private consortium solution, comprised of 14 key counterparties taking over ownership and operational control.	Other		PRI-PRI (partly)	Department of Treasury 1999; Lowenstein 2000.
LAT-1998	September 1998	Latvia	Spillover from Russian crisis to Latvian banks: central bank provides liquidity support to Rigas Komercbanka, as well as capital injection.	AHCI, AHEL			De Luca et al. 2021.
COB-1998	October 1998	Colombia	Government nationalization of <i>Granahorrar Bank</i> via 157BN Pesos capital injection.	AHCI			IMF 2005, 16ff.
CN-1999	October 1998	China	Guangdong International Trust and Investment Company (GITIC) is closed by authorities with RMB 14.7BN uncovered liabilities. No compensations.	RES			Jun 1999, 313.
RUS-1998	November 1998	Russia	Establishment of public bank management and restructuring company ARCO, provided with RUB 10BN for equity injections, asset purchases, or loans. Banks are referred to ARCO upon CBR inspection.	BBAM, BBEL, ST	SPV		Fuchs 2002, 287ff; Laeven and Valencia.
EC-1996	December 1998	Ecuador	Blanket guarantee ("AGD law") to ease banking stress. De facto central bank (CBE) only starts covering deposits from April 1999. Deposit freezes. Nationalization of <i>Filanbanco</i> by AGD ("too big to fail"), closure of other banks.	BG, AHCI, SBH			Jacome 2004, 19f.; Ennis and Keister 2009.

PR-1999	December 1998	Peru	Nationalization of <i>Banco Latino</i> by SBS, subsequent debt- to-equity swap to restore solvency.	AHCI			Liebana 2001; Reinhart/Rogoff
BRL-1998	1998	Brazil	Bank rating downgrades from agencies and spillover from Asian volatility; Bemge state bank privatization; multiple international bank takeovers of domestic banks (ABN Amro, Credit Suisse).	RES			IMITI, October 7, 1998; Baron, Verner, Xiong 2021.
ROM-1990	February 1999	Romania	Bad bank established to pool assets from <i>Bancorex</i> and <i>Banca Agricola</i> , at least US\$ 3.7BN assets at book value transferred.	BBAM	SPV		Bonin and Wachtel 2005, 150.
LAT-1998	March 1999	Latvia	Rigas Komercbanka is declared insolvent after previous support fails to resolve distress.	RES			De Luca et al. 2021.
JP-1992	March 1999	Japan	Various capital injections under new Financial Strengthening Law, via preferred shares, subordinated bonds, subordinated loans: JPY 1.8TN injection into MUFJ entities; JPY 2.5TN injection into Mizuho; JPY 1.3TN injected into Sumitomo. Various bank resolutions under Financial Reconstruction Law to Oct 1999.	BBCI, RES			Nakaso 2001, 15f.
ROM-1990	April 1999	Romania	Liquidation of <i>Bancorex</i> and forced merger with state owned commercial bank.	RES			Bonin and Wachtel 2005, 150.
PR-1999	June 1999	Peru	Second intervention into Banco Latino after newly uncovered losses: doubtful portfolios moved to Banco de la Nacion.	АНАМ		STOW	Congreso Peru 2002; Liebana 2001.

	May 1999	Colombia	Central bank (BoR) provides liquidity support. Government facilitates bank debt relief program, liquidity support and FOGAFIN (deposit insurance institution) assumes control of seven medium-size institutions and lends to existing shareholders to recap banks.	BBEL, BBCI, OLG	SPV (partly)	PRI-PRI (partly)	World Bank 2002, 3; Jacome 2008, 43.
COB-1998	May 1999	Colombia	Resolution, privatization, or liquidation of major STOWs in the banking sector; dissolution of Caja Agraria.	RES		STOW	World Bank 2002, 6f.
СОВ-1998	August 1999	Colombia	Regulatory forbearance and major reform law on intervention practices and FOGAFIN (Ley 510) in August 1999.	ORL			Caballero Argaez and Montoya 2006, 145.
	1999	Colombia	FOGAFIN establishes sub-directorate managing and disposing bad assets acquired as part of clean-up operations, with participation of asset resolution company CISA.	BBAM	SPV		World Bank 2002, 17, 20f.; Laeven and Valencia.
HO-1999	September 1999	Honduras	Bancorp receives liquidity assistance from central bank until forced to close. Deposit guarantee applied on all system deposits, as well as guarantee for Bancorp Trust liabilities.	AHEL, AG, OLG			Jacome 2008, 41; Reinhart/Rogoff
CN-1999	1999-2000	China	China creates four asset management companies for major state-owned commercial banks (SOCBs), transferring ca. US\$ 170BN in bad assets at book value.	BBAM	SPV	STOW	Garcia-Herrero, Gavila, and Santabarbara 2006, 313.

RUS-1999	1999-2000	Russia	Major capital injections into state-owned <i>VTB</i> , ca. US\$ 1.4BN.	AHCI		STOW	Fuchs 2002, 177.
MOG-1999	1999-2002	Mongolia	Sharp deterioration in financial system conditions: IMF/World Bank/ADB program to reform sector: privatization program, macro-pru actions, establishment of MARA (Mongolian Asset Recovery Agency) to manage NPAs; some recap for Agricultural Bank.	AHCI, BBAM, RES, ORL	SPV (partly)	STOW (partly)	World Bank 2005, 3ff.
EC-2000	January 2000	Ecuador	New depositor runs in Ecuador: mere announcement of dollarization policy immediately reverses runs and stabilizes banking system, argue Levy Yeyati and Schmukler (2002, 13).	MC, ORL			Levy Yeyati and Schmukler 2002, 12ff.
NIC-2000	August 2000	Nicaragua	Government issues guarantee for inter-bank deposits.	AG			Laeven and Valencia 2012, 1223.
	November 2000	Turkey	CBT for several weeks supplies bank liquidity to stem loss of confidence, but reverses course by December at IMF insistence.	BBEL			Akyuez and Boratav 2003, 1555f.
TK-2000	December 2000	Turkey	TL 3.8 quadrillion issued in gvt securities to recapitalize state banks, and private banks taken over by SDIF. Blanket guarantee to all bank liabilities except owner deposits, subordinated debt and equity.	BBCI, BG		STOW (partly)	IMF 2001, 10; Kenc, Turhan, and Yildirim 2011, 4f.; Laeven and Valencia 2012, 1223.

NIC-2000	January 2001	Nicaragua	Government extends deposit guarantees to all deposits "except for related parties".	AG		Laeven and Valencia 2012, 1223.
GT-2001	2001	Guatemala	Bank of Guatemala (Banguaat) grants open line of credit in support of ailing smaller banks, plus LLR function enacted. Banguat authorized to inject capital or purchase assets from banks. Deposit fund (FOPA) not ready to operate.	BBAM, BBCI, BBEL		Jacome 2008, 17, 20, 40.
JP-2001	2001	Japan	At present, no indications of interventions separate from 1992-1999 events.	NO/I		Baron, Verner, Xiong 2021.
RUS-1998	April 2001	Russia	Recapitalization of <i>Sberbank</i> via repeated CBR subscriptions to US\$ 140M new equity issuance.	AHCI	STOW	Sberbank, April 8, 2001; Fuchs 2002, 165ff.
ARG-2001	April 2001	Argentina	Amendments to central bank charter de facto enable unlimited LOLR engagement by public/monetary sector.	BBEL, ORL		Levy Yeyati and Schmukler 2002, 9.
GER-2001	August 2001	Germany	Landesbank Berlin (LBB) receives EUR 1.8BN capital injection plus state guarantees on EUR 21BN real estate portfolio. Capital rises to EUR 9.7BN by February 2004.	AHCI, ASG	STOW	Schwintowski 2005, 60ff.; Official A. (EC 2006).

US-2001	September 2001	United States	FRBNY steps in to provide liquidity in interbank market between 09/12 – 09/17, after temporary shutdown in private markets related to terror attacks. Provision through Repo agreements "well below the new target level of 3 percent"; Ca. USD 79BN extra liquidity deployed/	MLA		Neely 2002; Martin 2009, 400.
TH-2001	October 2001	Thailand	Establishment of Thai Asset Management Company (TAMC).	BBAM	SPV	Dreyer 2020.
	December 2001	Argentina	Deposit freeze, withdrawal capped at 1,000 pesos per month and account. Forced deposit conversions to LCY.	BAIL, SBH		Ennis and Keister 2009, 1594f.
ARG-2001	January 2002	Argentina	Time deposits are "reprogrammed" (term lengthening).	BAIL		Levy Yeyati, Soledad Martinez, and Schmukler 2004, 9.
	2002	Argentina	Bank resolution for three banks.	RES		Jacome 2008, 41; Laeven and Valencia.
SAF-2002	February 2002	South Africa	Run on Saambou Bank, subsequent "small bank crisis". Emergency liquidity assistance to BOE, Saambou put under "curatorship". Full Guarantee on BOE assets in Mar-2002.	AHEL, ASG, RES		Havemann 2020.
CR-2002	March 2002	Croatia	Run on Rijecka Bank – CNB Central Bank provides HRK 558M in emergency lending.	AHEL		IMF 2002, 15.

HO-2002	May 2002	Honduras	Nationalization of <i>Banco Sogerin</i> and <i>Banco Capital</i> by deposit insurance institution, FOSEDE, via injection of government bonds. Est. 4.2BN lempiras.	AHCI, RES		FOSEDE 2003, 31ff.; Jacome 2008, 41; Reinhart/Rogoff
PG-2002	June 2002	Paraguay	Banco Aleman is intervened into and closed after spillover from Uruguay. Ca. 30,000 depositors guaranteed by Central Bank (BCP) for up to Guaranies 20M.	AG, RES		Jacome 2008, 42; Reinhart/Rogoff
	July 2002	Uruguay	Government announces four-day bank holiday after continued and escalating bank runs.	SBH		Levy Yeyati, Soledad Martinez, and Schmukler 2004, 10ff.
UG-2002	August 2002	Uruguay	FESB fund established to provide guarantees to dollar sight deposits. Dollar time deposit maturities extended by law, and four private banks suspended.xxxvi	AG, BAIL, RES	SPV (partly)	Levy Yeyati, Soledad Martinez, and Schmukler 2004, 10ff.; Plaza and Sirtaine 2005.
IS-2002	August 2002	Israel	Collapse of Trade Bank, run on Industrial Development Bank. Bank of Israel assists latter, via provision of special credit line.	AHEL		Paroush 2007, 146ff.
NOR-2002	November 2002	Norway	Finance Credit scandal: collapse of industrial group spills over to creditor banks. Several consolidations (inc. Nordlandsbank via DnB).	RES		Jahr 2005; De Luca et al. 2021.

UG-2002	December 2002	Uruguay	Further significant legal amendments on central bank macro-pru and liquidation powers. Total of USD 2.4BN in liquidity assistance deployed by year-end.	ORL			Levy Yeyati, Soledad Martinez, and Schmukler 2004, 12; Plaza and Sirtaine 2005, 28.
MN-1996	February 2003	Myanmar	Lingering crisis since 1996 (R/R timeline). Universal withdrawal limits for banks amid deposit runs (50-100k Kyat per week and customer); emergency 25BN Kyat loan by Central Bank to Asia Wealth, Yoma, Kanbawza Bank (disputed if actually disbursed).	AHEL, SBH			Turnell 2003, 275f.; Reinhart/Rogoff
UG-2002	March 2003	Uruguay	Asset Management Company established to absorb credits from Banco Montevideo, Banco Caja, and Banco Comercial. USD 1BN total asset volume initially.	BBAM			Brun and Licandro 2005, 17f.
DOR-2003	April 2003	Dominican Republic	Emergency loans and "abundant liquidity assistance" by central bank (BCRD) for three banks. Depositors included in de facto BG to intervened banks.	AHEL, BG			Jacome 2008, 44; Laeven and Valencia 2012, 1224.
CN-2003	December 2003	China	US\$ 22.5BN capital injection into China Construction Bank (CCB) and Bank of China (BoC) in the form of transfer of US government bond ownership. Subsequent sale of US\$ 34BN in NPLs to AMCs.	AHCI	SPV (partly)	STOW	Garcia-Herrero, Gavila, and Santabarbara 2006, 313.
RUS-2004	July 2004	Russia	"Mini financial crisis": Guta Bank taken over by state- owned Vneshtorgbank, after mounting losses. Later also	AG, AHCI, CRL		STOW	Johnson 2004, 4; ECB 2004, 24.

			Pomstroibank taken over. Duma extends deposit insurance, Bank of Russia sharply cuts reserve requirements.				
CN-2005	April 2005	China	US\$ 15BN capital injection into Industrial Commercial Bank (ICB) in the form of USD reserves.	АНСІ		STOW	Garcia-Herrero, Gavila, and Santabarbara 2006, 314.
GER-2005	November 2005	Germany	Private bank consortium provides EUR 2.5BN emergency liquidity to AHBR, with guarantees from private German bank association fund (BdB).	AHEL, OLG	ASSOC (partly)	PRI-PRI	BaFin 2006, 23f.
GT-2006	October 2006	Guatemala	Bancafe and Banco del Comercial liquidated. Orderly wind-down, coupled with deposit guarantees and small liquidity support. Deposits transferred to other lenders.	AG, RES			Reinhart/Rogoff 2009, 366.
AUS-2008	March 2007	Australia	Australian state SWF ("Australian Future Fund") begins providing medium- and long-term funding for local banks amid first signs of Lehman problems. Total up to AUD 1.8BN.	BBEL	SWF		Raymond 2010, 150.
GER-2008	July 2007	Germany	IKB Bank (minority state-owned) bailed out via KfW Group and private lenders. KfW takes over Rhineland SPV which is holding U.S. MBS, absorbing losses. Loan-basis first, later capital injections by November 2007.	AHEL, AHCI		PRI-PRI (partly)	Mitchell 2016, 78ff.
US-2007	August 2007	United States	Fed institutes Term Discount Window Program amid first inter-bank market volatility - but little uptake; FHLB begins to act as "lender of next to last resort".	MLA			Ashcraft, Bech, and Frame 2010.

UK-2007	September 2007	United Kingdom	BoE emergency liquidity to Northern Rock, collateralized by MBS portfolio.	AHEL		Domanski, Moessner, Nelson 2014, 8.
US-2007	December 2007	United States	TAF established by Federal Reserve, providing 28-day auction-basis loans. Lending to "financially sound" institutions continues through April 2010	BBEL		Domanski, Moessner, Nelson 2014, 7. <u>Fed 2020</u> .
	January 2008	United States	Kuwait Investment Authority (KIA) invests US\$ 12.5BN into Citibank as "white knight" amid default fears.	AHCI	SWF	Gordon and Niles 2012, 44.
	March 2008	United States	Separate USD 12.9BN bridge loan for Bear Stearns from FRBNY upon default fears;	AHEL		Federal Reserve Board, December 1, 2010.
US-2007	April 2008	United States	"Maiden Lane LLC" incorporated to manage assets from defunct Bear Stearns, with JP Morgan capital participation; subsequent Maiden Lane II and III extensions. Direct 29BN loan to Citi to help acquisition in March.	AHEL, BBAM	SPV (partly)	Federal Reserve Board December 1, 2010; Financial Crisis Inquiry Commission 2011; Gorton and Metrick 2013, 58;

ARG-2008	2008	Argentina	Liquidity provision via LEBAC and NOBAC markets; new BCRA liquidity window for non-traditional collateral.	BBEL			BCRA 2010, 103ff.
GER-2008	January 2008	Germany	SoFFin extends guarantee for EUR 6.7BN capital raise of private bank association's insurance fund to compensate Lehman Brothers Bankhaus AG [German subsidiary] clients.	OLG	SPV		EC, January 21, 2009.
TH-2008	February 2008	Thailand	Deposit guarantee scheme, initiated February, extended into 2011 by October. Provision of FX swaps by CB.	AG			BoT 2009, 383ff.
US-2007	March 2008	United States	Establishment of TSLF and PDCF to provide liquidity to non-bank primary dealers and aid tri-party repo market.	BBEL, MLA	Market		Domanski, Moessner, Nelson 2014, 14.
UK-2007	April 2008	United Kingdom	BoE introduces Special Liquidity Scheme, enabling banks to swap illiquid assets for UK Treasury bills on one-year basis.	BBEL			Domanski, Moessner, Nelson 2014, 14.
GER-2008	April 2008	Germany	Private German Bank Association (BdB) and Auditing Association of German Banks (PdB) take over Duesseldorfer Hypo as default looms. Sold to Lone Star by 2010.	АНСІ	ASSOC	PRI-PRI	Financial Times, April 22, 2008.
SZ-2008	May 2008	Switzerland	SNB doubles amount of USD repo transactions to counter continuing liquidity pressures in Swiss markets.	MLA			SNB, May 2, 2008.

DK-2008	July 2008	Denmark	Joint public-private support for Roskilde Bank, restructuring and sale of business to other banks.	AHCI, RES		PRI-PRI (partly)	IMF 2009a, 108.
PT-2008	October 2008	Portugal	Bank debt guarantee scheme announced, up to EUR 35BN for non-subordinated debt and other "financing agreements" (actual use >EUR 20BN).	OLG			EC, December 17, 2008; McNamara et al. 2019.
CAD-2008	August 2008	Canada	Multiple new liquidity facilities (including Term Loan Facility TLF), and widening of accepted collateral, also including money market participants and primary dealers (via PRA facilities).	BBEL	Market (partly)		Longworth 2009, 2ff.; Zorn, Wilkins, and Engert 2016.
COB-2008	2008	Colombia	Reduction of reserve requirements, liquidity provision; BANCOLDEX receives extra funding to provide liquidity to banking and corporate sector; deposit insurance raised.	AG, BBEL, CRL			IMF 2009b, 9.
EST-2008	September 2008	Estonia	Run on Swedbank's Estonian branch. Riksbank widens range of acceptable collateral for Swedbank, which channels funds to subsidiary.	AHEL			OECD 2011, 21f.
US-2007	September 2008	United States	Fed provides USD 85BN credit line to AIG, secured by AIG assets, partly managed via Maiden Lane extension (s.a.).	AHEL, AHAM	SPV (partly)		Domanski, Moessner, Nelson 2014, 7.
US-2007	September 2008	United States	Treasury announces money market Guarantee Program, guaranteeing stable value per share upon "guarantee event".	MLA, OLG	Market		Murphy et al. 2009, 395f.

CN-2008	September 2008	China	Hujin, China's sovereign wealth fund, purchases 2mn shares in each of China's top three banks, and separate USD 20BN injection into ABC in November.	BBCI	SWF	STOW	IMF 2009a, 8.
HK-2008	September 2008	Hong Kong	HKMA supplies emergency interbank liquidity amid run on Bank of East Asia and broader banking and currency market volatility. Extra USD 12BN issuance of Exchange Bills.	BBEL	Market		HKMA 2009, 6, 53.
	October 2008	Hong Kong	Authorities "threaten" to deploy Exchange Fund (SWF) in 1998 fashion to boost equity markets. Not used.	MC	Market		Raymond 2010, 131f.
BEL-2008	September 2008	Belgium, France	Joint government subscription to EUR 6BN capital increase by <i>Dexia Bank</i> .	AHCI			Igan et al. 2019.
IRL-2008	September 2008	Ireland	EUR 440BN government guarantee on bank liabilities enacted for two years; superseded by ELG scheme in Dec-2009. Allows for capital injections. Significant ELA build-up, reaching EUR 90BN by Jan-2010.	BBCI, BG, BBEL			Honohan et al 2010, 152ff.; Laeven and Valencia.
MOG-2008	September 2008	Mongolia	Zoos Bank nationalized in November 2009. Issuance of unlimited guarantee on all deposits in November 2008 (inter-bank deposits excluded by 2010).	AHCI, AG			IMF 2011, 25ff.; Leaven and Valencia.
BEL-2008	September 2008	Belgium, Netherlands, Luxemburg	Joint government capital injection of EUR 11.2BN into Fortis and its subsidiaries for 49% stake. In November, Royal Park Investments (AMC) established.	AHCI, AHAM	SPV (partly)		Igan et al. 2019, 78f.

UKR-2008	September 2008	Ukraine	Eight private banks nationalized by NBU in consultation with EBRD/World Bank after "sudden stop" (Prominvestbank reprivatized in early 2009). US\$ 2.5BN bank recap package finalized April 2009.	BBCI		Aslund 2009, 381; Laeven and Valencia.
	September 2008	Ukraine	Recapitalization of two major state banks, Oshchadbank and Ukreximbank.	BBCI	STOW	Aslund 2009, 381.
IN-2008	September 2008	India	Some market liquidity initiatives, mainly to ease absorption of fiscal measures in financial sector. RBI synchronizes "MSS" schemes with debt issuance. Statutory Liquidity Ratio (SLR) is lowered (Nov. 2008).	CRL, MLA		IMF 2009b, 29f.; Sinha 2011, 227ff.
IRL-2008	September 2008	Ireland	Issuance of blanket guarantee to Anglo-Irish Bank, together with EUR 5BN private liquidity assistance, publicly-guaranteed. CIFS scheme	AHEL, BG	PRI-PRI (partly)	Honohan et al. 2010, 123ff.
IRL-2008	September 2008	Ireland	CIFS scheme to cover deposits at building societies, and banks by 100% (to Sep. 2010). Deposit Guarantee Scheme (DGS) limits raised from EUR 20,000 to 100,000.	AG		Honohan et al. 2010, 150f.
SAR-2008	October 2008	Saudi Arabia	Supervisors meaningfully reduce deposit reserve requirements; direct placement of deposits by state vehicles at banks; Rls 40BN "provided" to special credit institutions. SAMA provides liquidity "whenever needed".	BBEL, CRL	STOW (partly)	SAMA 2009, 27.
RUS-2008	October 2008	Russia	Interbank deposit guarantees, widening of deposit guarantee; extra CBR lending facilities, and capital allocated for recaps via VEB.	AG, BBCI, BBEL	STOW (partly)	IMF 2009a, 58.

AZ-2008	October 2008	Azerbaijan	Government moves to exempt banks from profit tax.	BBCI		N	Masimli 2009, 82.
G-2008	October 2008	All member states	IASB fair value rules (IAS 9 and IFRS 7) are eased, mainly benefitting European Union incorporated banks.	CRL			Bischof, Brueggemann, Daske 2010.
SZ-2008	October 2008	Switzerland	Swiss Confederation injects CHF 6BN into UBS via subscription to convertible notes. "StabFund" established by SNB to manage CHF 39BN in UBS assets. CPFF commercial paper backstop by U.S. authorities used by UBS.	AHCI, BBAM, ASG	SPV		MF 2014, 37; Laeven and Valencia.
	October 2008	United States	TARP approved, authorizing up to USD 700BN in "troubled asset" purchases. Includes asset guarantee program (AGP), SSFI, and capital purchase program (CPP) which undertakes ca. USD 205BN in equity or debt injections. Several discretionary items, including USD 5BN loss absorption on Citigroup assets, mortgage program.	BBCI, ASG			Calomiris and han 2015, 55ff.
US-2007	October 2008	United States	Congress temporarily raises FDIC insurance limit to USD 250,000 as part of ESSA legislation.	AG			ashcraft, Bech, ad Frame 2010, 577.
	October 2008	United States	FDIC establishes TLGP, guaranteeing non-interest-bearing transaction deposits and selected senior unsecured bank debt issuance.	OLG			ashcraft, Bech, ad Frame 2010, 577.

	October 2008	United States	MMIFF program launched to ultimately support term money market instruments and secure liquidity; CPFF program to enhance liquidity in secondary markets.	MLA	Market	Rhee et al. 2020.
MY-2008	October 2008	Malaysia	Blanket guarantee on all ringgit and foreign currency deposits announced, in effect to December 2010. BNM pledges extra liquidity, in domestic RMB and USD FX.	AG, BBEL		Ibrahim 2011, 274f.
NZL-2008	October 2008	New Zealand	Retail deposit guarantee scheme, and guarantee of other bank liabilities, with ca. USD 2BN eventually paid out until end-2011.	AG, OLG		IMF 2017b, 14ff.
FIN-2008	October 2008	Finland	EUR 50BN bank debt guarantee scheme announced November 2008 for new issuance;	OLG		EC, November 14, 2008.
BRL-2008	October 2008	Brazil	Extra USD and BRL liquidity provision, lowering of reserve requirements, and Deposit Guarantee Fund purchases of certificates of deposit; Guaranteed Time Deposit Scheme (DPGE) in Mar-2009. Banco do Brazil and Caxia Federalto allowed to buy financial firm stakes.	AG, BBCI, BBEL, CRL		Mesquita and Toros 2009, 117f.; IMF 2009b, 7; IMF 2018b, 47ff.
KOR-2008	October 2008	South Korea	Substantial liquidity provision amid capital outflows, multiple FX swap agreements from 2008; bank foreign debt guarantee scheme announced in October 2008.	BBEL, OLG		Kim 2009.
CAD-2008	October 2008	Canada	Insured Mortgage Purchase Program (IMPP) announced to offload risky securitized assets from banks. Initial CAD 25BN, raised to CAD 125BN by Jan 2009.	BBAM		Longworth 2009, 2ff.; Zorn, Wilkins, and Engert 2016.

	October 2008	Canada	Canadian Lenders Assurance Facility (CLAF) enables public guarantees on senior unsecured wholesale debt.	OLG		Simon 2020.
TW-2008	October 2008	Taiwan	Blanket deposit guarantee announced, including inter-bank deposits and foreign FX deposits. Repo facility access expanded and lowering of required reserve ratios.	AG, CRL	Market (partly)	CBC 2009, 87f.
MX-2008	October 2008	Mexico	Mexico uses Federal Reserve swap lines to hold special USD 500M FX auctions, special USD 4BN auction to banks to maintain dollar financing. New discount facilities for local currency.	BBEL		Sidaoui 2014, 101ff.
NL-2008	October 2008	Netherlands	EUR 20BN bank support fund announced, with subsequent injections into ING, Aegon, SNS; deposit insurance raised to EUR 100,000; interbank deposit and loan guarantee for up to EUR 200BN.	AG, BBCI, OLG	SPV	IMF 2009a, 50f.; Laeven and Valencia.
ES-2008	October 2008	Spain	Establishment of debt issuance guarantee scheme for credit institutions resident in Spain or subsidiaries with substantial presence, as of Oct 2008. Solvent banks only, total funds limited to EUR 100BN initially.	OLG		EC, December 23, 2008.
	October 2008	Spain	Establishment of "Fund for the Acquisition of Financial Assets" (FAAF), up to EUR 50BN volume.	BBAM	SPV	EC, November 4, 2008.
UK-2007	October 2008	United Kingdom	Guarantee on short-to-medium-term debt (max. 36m) for eligible institutions, including guarantee on Northern Rock and Bradford & Bingley wholesale deposits.	OLG		IMF 2009a, 69f.; Laeven and Valencia.

	October 2008	United Kingdom	Up to GBP500BN mobilization for bank recaps: Treasury begins GBP 45.5BN in equity investments in RBS. Asset protection scheme covers GBP 282BN in RBS assets.	AHAG, BBCI			IMF 2009a, 69f.; IMF 2014, 36.
	October 2008	United Kingdom	Bank of England provides ELA to HBOS and RBS: swapping UK Treasury bills for impaired mortgage and loan assets.	AHEL			Domanski, Moessner, Nelson 2014, 28.
GER-2008	October 2008	Germany	EUR 42BN loan guarantee scheme for Hypo Alpe Adria (40% public share, 60% private consortium), via creation of new SPV.	OLG	SPV	PRI-PRI (partly)	EC, October 2, 2008.
BEL-2008	October 2008	Belgium, France, Luxemburg	Dexia intervention: EUR 6.4BN recap, and joint guarantees of EUR 100BN for new Dexia financial liabilities. Extra EUR 17BN asset guarantee on structured credits. xxxvii	AHCI, ASG, OLG			Igan et al. 2019, 77.
	October 2008	Belgium	Short-term bank debt guarantee scheme for "systemic" banks, including bonds, inter-bank deposits.	OLG			IMF 2009a, 5; NBB 2009, 181f.
DK-2008	October 2008	Denmark	Deposit insurance for full domestic amounts outstanding and guarantee for all senior debt. Initial 2-year period.	AG, OLG			IMF 2009a, 10f.
AUS-2008	October 2008	Australia	Deposit insurance for domestic banks, building societies, both retail and wholesale, of all FX denominations up to AUD 1M, for 3 years.	AG			IMF 2009a, 3f. Official A.
AT-2008	October 2008	Austria	Unlimited deposit insurance; EUR 85BN guarantee for interbank market. EUR 100BN approved for potential capital injections, with EUR 2.7BN injection into Erste,	AG, AHAM,			Rechnungshof 2012, 35ff.

			and injections into Kommunalkredit (KA), BAWAG Some separation of good-bad assets at KA.	ASG, BBCI, OLG			Hebesberger 2017, 46ff.
	October 2008	Austria	Österreichische Clearingbank established to guarantee bank debt issuance, facilitate interbank lending.	BBEL, OLG		PRI-PRI (partly)	Simon 2020.
IT-2008	October 2008	Italy	Establishment of EUR 20BN bank recapitalization fund, to invest in subordinated bank debt. Expires unused end-2009; interbank deposit guarantee, other liability guarantees and new EUR 40BN asset swap facility by Banca d'Italia to provide bank liquidity ('CSLF').	AG, BBCI, BBEL, OLG	SPV (partly)		IMF 2013, 17ff.
FRA-2008	October 2008	France	Up to EUR 320BN made available to guarantee interbank lending: paper issued before December 31, 2009, is eligible. Further EUR 40BN made available for capital injections via preferential shares or subordinated debt.	BBCI, OLG			Levy and Schich 2010, 49; Igan et al. 2019, 54f.
	October 2008	France	Establishment of "SFEF" to provide emergency liquidity to domestic banks, guaranteed by Treasury. More than EUR 75BN extended to September 2009.	BBEL	SPV	PRI-PRI (partly) xxxviii	Levy and Schich 2010, 49; Igan et al. 2019, 54f.
ICE-2008	October 2008	Iceland	Kaupthing and Glitnir closed by Icelandic authorities. Establishment of run-off entities, asset separations ("old bank/new bank" model).	BBAM, RES			IMF 2014, 31; Laven and Valencia.
LUX-2008	October 2008	Luxembour g	Guarantees on Dexia's debt.	OLG			Laeven and Valencia.

	October 2008	Luxembour g	Supervisors close three Icelandic subsidiaries with parents sliding in Iceland. Deposit fund pays out EUR 300M to depositors. Deposit insurance limits significantly enlarged.	AG, RES	OECD 2010, 103, 113.
TK-2008	October 2008	Turkey	CBRT provides emergency liquidity to banking sector after Lehman collapse, lowers reserve requirements. Reclassification of NPL and government bond accounting rules to provide liquidity.	BBEL, CRL	IMF 2010b, 16f.; Kenc, Turhan, Yildirim 2011, 6f.
UAE-2008	October 2008	United Arab Emirates	Announcement to guarantee all bank deposits for three years, including foreign banks with "core" operations in UAE, pledge to "protect" interbank liquidity.	AG, OLG	Raymond 2010, 140.
UAE-2008	October 2008	United Arab Emirates	Dirham 25BN bank liquidity package approved, second Dirham 25BN tranche announced Nov. 2008.	BBEL	Reuters November 6, 2008.
CY-2008	October 2008	Cyprus	Deposit guarantees raised from EUR 20,000 to 100,000.	AG	Demirguc-Kunt, Kane and Laeven 2014, 34.
SWE-2008	October 2008	Sweden	SEK 2.4BN liquidity assistance to Carnegie Bank from Riksbank. Further assistance to Kaupthing Bank Sverige.	AHEL	EC, December 16, 2008; Elmer et al. 2012, 2ff.
SWE-2008	October 2008	Sweden	Establishment of general financial system liquidity assistance, via USD and SEK provision, and long-maturity provision.	BBEL	Elmer et al. 2012, 2ff.

	October 2008	Sweden	SEK 1,500BN bank security guarantee scheme announced (peak usage SEK354BN).	OLG		EC, December 16, 2008; Elmer et al. 2012, 2ff.
AUS-2008	October 2008	Australia	Unlimited wholesale funding guarantee scheme announced, Financial Claims Scheme guaranteeing large deposits. Peak actual use of capital guarantee at A\$ 170BN.	AG, OLG		Schwartz and Tan 2016, 39ff.
ID 2009	October 2008	Japan	To support banks, BoJ suspends stock selling program for stocks previously bought from banks.	MLA		ВоЈ 2020.
JP-2008	October 2008	Japan	Meaningful relaxation of collateral requirements for BoJ funding.	ORL		ВоЈ 2020.
EU-2008	October 2008	Euro member countries	ECB begins substantial open lending to "risky" banks, applying below-market haircuts on collateral. Later supplemented with LTROs programs (s.b.).	BBEL		Carpinelli and Crosigniani 2021; Drechsler et al. 2016.
ID-2008	October 2008	Indonesia	Maximum guarantee for deposits under Limited Guarantee scheme raised from 100M Rp to 2BN Rp.	AG		Hadad et al. 2011.
HUG-2008	November 2008	Hungary	Refinancing Guarantee Fund to secure refinancing on 3m- 5y maturity; Capital Base Enhancement Fund to recapitalize weak banks.	BBCI, OLG	SPV	IMF 2009a, 27f.

POL-2008	November 2008	Poland	EUR 15BN inter-bank debt guarantee scheme announced (later raised to EUR 56BN; no subsequent take-up by banks).	OLG		Reichardt 2011, 41; McNamara et al. 2019.
IT-2008	November 2008	Italy	EUR 20BN bank support facility launched to raise tier 1 capital via subordinated debt, eventually EUR 4.05BN "Tremonti bonds" issued, including EUR 1.9BN to Monte Paschi (BMPS), EUR 1.45BN to Banco Popolare.	MLA, BBEL		EC, December 23, 2008. IMF 2013, 21.
PHP-2008	November 2008	Philippines	Lowering of reserve requirement ratio, additional LCY and dollar liquidity windows from November 2008. Regulatory forbearance.	BBEL, CRL, ORL		Guinigundo 2011, 332ff.; Baron, Verner, Xiong 2021.
GER-2008	November 2008	Germany	Capital injection into Commerzbank, EUR 8.2BN "silent participation", via German bank fund SoFFin.	AHCI	SPV	IMF 2009a, 113; Official A.
SWE-2008	November 2008	Sweden	Swedish National Debt Office ("Riksgaelden") replaces SEK 2.4BN liquidity assistance to Carnegie Bank with SEK 2.4BN emergency loan, with equity pledged as collateral. De facto nationalization, to May 2009.	АНСІ		EC, December 16, 2008.
GRE-2008	November 2008	Greece	Three-pillar bank support scheme: [1] recap scheme (EUR 5BN total vol. via preference shares); [2] guarantee scheme, up to EUR 15BN; [3] Bond loan scheme to provide banks with sovereign collateral, up to EUR 8BN in zero coupon bonds.	BBCI, BBEL, OLG		EC,_November 19, 2008.

ID-2008	November 2008	Indonesia	Indonesian deposit insurance corporation seizes control of Bank Century after mounting losses and emergency assistance. Ca. USD 740M in loss absorptions and other public outlays.	AHCI, AHEL, RES			IMF 2009a, 30; Basri 2018, 28.
ROM-2008	November 2008	Romania	Lowering of reserve requirements for banks to aid liquidity.	CRL			IMF 2009a, 58.
JAC-2008	November 2008	Jamaica	Bank of Jamaica announces special loan facility and FX intermediation facility in light of liquidity / FX volatility.	BBEL, other			ECLAC 2009, 254f.
US-2007	November 2008	United States	Fed/Treasury/FDIC provision of non-recourse loan for Citigroup to insure against asset value decline, if losses exceed USD 44BN. Not drawn.	AHEL			Domanski, Moessner, Nelson 2014, 8.
LAT-2008	November 2008	Latvia	Parex Bank nationalization, along with asset guarantees, recaps, and other credit guarantees; by September 2010, split into good bank/bad bank and restructuring.	AHAM, BG, RES	SPV (partly)		Igan et al. 2019, 65; Laeven and Valencia.
KW-2008	December 2008	Kuwait	KIA (SWF) bails out faltering banks including 16% stake in Gulf Bank.	AHCI	SWF		Subacchi 2012, 91.
	December 2008	Germany, Austria	Hypo Alpe Adria EUR 1.6BN joint Bavarian-Austrian capital injection.	AHCI			IMF 2014a, 32f.
GER-2008	December 2008	Germany	EUR 10BN capital injection by state of Bavaria into Bayern LB (Landesbank). Additional EUR 4.8 guarantee	AHCI, ASG, OLG	SPV (partly)	STOW	EC, December 18, 2008; EC, July 25, 2012.

			on ABS portfolio. Bayern LB also receives EUR 15BN liquidity guarantee via SoFFin (de facto credit guarantee).			
FRA-2008	December 2008	France	Up to EUR 21BN SPPE (public investment fund) scheme to invest in French banks via hybrid capital. Six French banks draw EUR 10.5BN in first funding round, incl. Credit Agricole, BNP Paribas; May 2009: 5BN for Natixis.	ВВСІ	SPV	EC, December 8, 2008; Xiao 2009, 15ff.
QT-2008	December 2008	Qatar	Qatar Investment Authority (QIA) takes US\$ 5.3BN stakes in local banks, including Doha Bank, Commercial Bank of Qatar. Selected equity portfolio purchases and recaps via subscriptions to new equity issuance into 2011.	AHAM, BBCI	SWF	IMF 2009a, 125; Subacchi 2012, 90.
KOR-2008	December 2008	Korea	KRW 20TN recapitalization fund announced to inject capital on "voluntary basis" various injections in January 2009 (i.e. Korea Development Bank, Industrial Bank of Korea).	ВВСІ		IMF 2009a, 45.
IRL-2008	December 2008	Ireland	Introduction of "Eligible Liabilities Guarantee (ELG)", replacing previous CIFS program, guaranteeing deposit and non-deposit (subordinated bond) liabilities.	OLG		Ryan, Hart- Moran, and Preston 2015.
	January 2009	Ireland	Nationalization of Anglo-Irish Bank, after previous issuance of blanket guarantee.	AHCI		Honohan et al. 2010, 123ff.
BUG-2009	January 2009	Bulgaria	Oman State General Reserve Fund buys 30% stake in Corporate Commercial Bank of Bulgaria.	AHCI	SWF	Monitor Group 2010, 37.

DOR-2009	January 2009	Dominican Republic	Substantial emergency liquidity provision via repo and lowering of reserve requirements. Est. Pesos 17BN.	BBEL, CRL		ECLAC 2009, 238f.
US-2007	January 2009	United States	Federal Reserve, Treasury and FDIC provide protection to USD 118BN Bank of America portfolio via non-recourse loan, if losses exceed USD 18BN.	AHEL		Domanski, Moessner, Nelson 2014, 29.
GER-2008	January 2009	Germany	Further 8.2BN capital injection into Commerzbank via SoFFin, plus 1.8BN equity subscription.	AHCI	SPV	IMF 2009a, 20f.; Official A.
NL-2008	January 2009	Netherlands	Dutch government guarantees 80% of ING's "Alt A" U.S. mortgage portfolio. Considered EUR 5BN state aid by European Commission.	ASG		IMF 2009a, 51; Official A.
DK-2008	January 2009	Denmark	DKK 100BN fund established to inject capital into banks upon application, in the form of hybrid tier one capital: take up of DKK 46BN over program life, 43 institutions. State-guaranteed debt issuance by domestic banks. Take up: DKK 193BN across 50 institutions.	BBCI, OLG	SPV	IMF 2014b, 21.
	February 2009	Denmark	DKK 1BN capital injection into Fionia Bank. Additional DKK 5.1BN credit facility.	AHCI, OLG		EC, May 20, 2009.
IRL-2008	February 2009	Ireland	EUR 7BN capital injection into Bank of Ireland (3.5BN), and Allied Irish Bank (3.5BN) via preference shares.	AHCI		Official A. (via press).

TT-2009	February 2009	Trinidad Tobago	Central Bank takes over CLICO Financial after spiralling losses and threat of systemic event: TT\$ 12.8BN total short-term claims, partially swapped with government bonds.	AHCI, BAIL		TT Finance 2011.
GT-2009	February 2009	Guatemala	Monetary Board authorizes USD 290M in emergency liquidity for banking sector, and more discretion in FX management.	AHEL, other		ECLAC 2009, 180.
JP-2009	February 2009	Japan	BoJ announces JPY 1TN stock purchase program for stocks held by banks, with minimum BBB- rating.	MLA		ВоЈ 2020.
JP-2009	March 2009	Japan	BoJ announces direct provision of subordinated loans to banking sector, JPY 1TN volume, 10-year maturity.	BBEL		ВоЈ 2020.
KW-2008	February 2009	Kuwait	Government and Central Bank announce 50% guarantee on US\$ 13.8BN credit facility to encourage bank lending. KIA instructed to buy preference shares of weakening institutions.	BBCI, OLG	SWF (partly)	Subacchi 2012, 91.
KZ-2008	February 2009	Kazakhstan	Nationalization of BTA Bank via public Samruk-Kazyna Fund.	AHCI	SWF	Ansar and Ahearn 2015.
GY-2009	February 2009	Guyana	Government takes control of CLICO Guyana after financial meltdown, expanding USD 34M in guarantees.	BG, RES		ECLAC 2009, 243.
UK-2007	February 2009	United Kingdom	Banking Act implemented: special resolution regime (SSR) enacted; subsequent application in Dumferline (2009) and	MLA, RES		Financial Times, March 30, 2009 and June 17,

			Southsea (2011). Asset purchase program (APP) to secure liquidity in non-bank financial market.			2011; Brierley 2009; Rhee et al. 2020.
NOR-2009	February 2009	Norway	NOK 50BN State Finance Fund is established to provide bank capital; Norges Bank provides liquidity via bond swap facility, corporate bond support, and foreign FX funding ("State Bond Fund").	BBEL, BBCI	SPV (partly)	IMF 2010a, 39f.; Baron, Verner, Xiong 2021.
US-2007	February 2009	United States	Announcement of SCAP (annual stress test framework).	ST		Fernandes, Igan, Pinheiro 2020, 3.
ES-2008	March 2009	Spain	Intervention in <i>Caja de Ahorros de Castilia:</i> Banca d'Espana grants emergency liquidity assistance and state guarantee on EUR 9BN of bank's liabilities.	AHCI, AHEL, OLG		BdE 2017, 126f.
AT-2008	March 2009	Austria	Series of recaps: Erste, RZB, Oesterreichische Volksbanken, EUR 4BN over March-May 2009 via capital injections and participation certificates.	АНСІ		Homar 2016, 39.
HUG-2008	March 2009	Hungary	USD 130M capital injection into minority state-owned FHB Mortgage Bank after liquidity assistance proves insufficient.	AHCI, AHEL		Igan et al. 2019, 59f.
ICE-2008	March 2009	Iceland	Straumur Bank nationalized via Financial Supervision Authority, subsequently reorganized as ALMC.	AHCI, RES		FME 2009 (<u>Official A)</u> .
US-2007	March 2009	United States	PPIP program to aid price discovery and market functioning in legacy assets, via TARP capital.	MLA	Market	Rhee et al. 2020.

UK-2007	March 2009	United Kingdom	CBSMS program to enhance liquidity and market-making via purchases of UK IG corporate bonds.	MLA	Market	Rhee et al. 2020.
НО-2009	April 2009	Honduras	Policy package to mitigate financial crisis: reduction of reserve requirements, sharing of credit risk for industrial and agricultural bank loans.	CRL, OLG		ECLAC 2009, 187.
CY-2008	April 2009	Cyprus	EUR 1BN capital injection into commercial banks.	BBCI		IMF 2009a, 10.
IRL-2008	April 2009	Ireland	Creation of NAMA as bank AMC announced by Treasury (signed into law November 2009). Nominal asset values transferred est. at EUR 54BN initially.	BBAM	SPV	Honohan et al. 2010, 13, 19.
ES-2008	June 2009	Spain	Spain sets up "Fund for the Orderly Restructuring of the Banking Sector (FROB), capitalized with EUR 9BN. During "FROB I" phase, FROB makes EUR 9.7BN investments in preference shares between Mar-Dec. 2010 upon application of individual banks which document failure to recap successfully in private market. FROB to provide asset protection aid upon application: i.e. EUR 392M provided in July 2010 to Cajasur.	AG, BBCI, BBEL, OLG	SPV	BdE 2017, 110ff., 126f.
NG-2009	August 2009	Nigeria	NGN 620BN capital injection by CBN into eight banks with solvency issues. 5 main banks liquidated after stress tests.	BBCI, RES, ST		Financial Times, August 15, 2009; Alford 2010, 5ff.

CR-2009	2009	Croatia	Hrvatska Postanska Banka, largest domestically-owned bank, recapped from 2009-2015 with HRK 1.06BN public injections, partly via subscription of state companies.	AHCI		STOW	Igan et al. 2019, 51.
LAT-2008	2009	Latvia	Multiple interventions into LHZB, including recap, asset guarantees, and later split into good bank/bad bank.	AHAM, AHCI, ASG		STOW	Igan et al. 2019, 65.
CY-2008	October 2009	Cyprus	Bank liquidity scheme via provision of zero-coupon government bond collateral, up to EUR 3BN volume.	BBEL			EC, October 22, 2009.
UK-2010	March 2010	United Kingdom	UK Asset Resolution Limited established October 2010 (announced March), managing NR, B&B assets; no specific actions during 2011 itself.	BBAM	SPV		Lawson 2021.
NG-2009	July 2010	Nigeria	Asset management company founded by decree, AMCON, to buy distressed bank assets, including NPLs (eventual: >NGN 1.7TN).	BBAM	SPV		Makanjoula 2015.
ES-2010	2010	Spain	Numerous interventions over 2009-2012 via FROB/SAREB (s.b.). In 2010, actions include EUR 525M recapitalization of Banco CEISS via equity, CCM EUR 1.6BN package of loans and equity.	BBEL, BBCI	SPV		Igan 2019, 70ff.; Baron, Verner, Xiong 2021.
AT-2011	2011	Austria	In April 2012, further EUR 220M equity injection into Hypo Tirol, and EUR 250M into ÖVAG, with latter receiving EUR 3BN asset and liquidity guarantees.	AHCI, ASG, OLG			Igan et al. 2019, 48f.; Baron, Verner, and Xiong 2021.

DK-2011	2011	Denmark	Numerous interventions over the course of 2008-2012. For 2011, interventions (via Finansiel Stabilitaet) include Amagerbanken, Fjordbank Mors, Eik Bank, and Max Bank. Combination of capital, credit, and liquidity facilities deployed. Some ad hoc asset guarantees (i.e. to Eik Bank).	AHCI, AHEL, ASG, OLG	SPV		Igan et al 2019, 52f.; Baron, Verner, Xiong 2021.
CY-2011	2011	Cyprus	From mid-2011, Cypriot banks resort to ELA liquidity assistance; sharp stock market correction.	BBEL			IMF 2014c, 43ff.; Laeven and Valencia.
ES-2010	February 2011	Spain	"FROB II" phase in Spain after passing of new laws: FROB now authorized to buy ordinary shares of banks upon application. EUR 4.75BN equity injected into three banks over 2011.	BBCI	SPV		BdE 2017, 124f.
PT-2011	May 2011	Portugal	IMF bailout program signed May 2011; includes EUR 12BN recapitalization line for banks: subsequent drawees include Millennium BCP, BPI and Banif.	BBCI			Kroeger 2011, 18, 22; Baron, Verner, Xiong 2021.
GRE-2010	June 2011	Greece	Recapitalization of ATE Bank, gross EUR 1.1BN. Further EUR 0.3BN injection via capital rights in November.	AHCI		STOW	Homar 2016, 40.
TK-2011	June 2011	Turkey	Financial Stability Committee (FSC) formed to coordinate between members. Some tweaks in FX rules and CBRT FX interventions. No direct bank interventions reported.	other			Uysal 2017, 351ff.
NG-2009	August 2011	Nigeria	Full nationalizations of <i>Mainstreet</i> , <i>Keystone</i> , and <i>Enterprise</i> Banks.	AHCI, AG			Makanjoula 2015.

			CBN guarantees deposits of banks with AMCON stakes.				
ES-2010	September 2011	Spain	FROB recaps Catalunya Bank with EUR 1.7BN (=90% stake), as part of "FROB II" process (s.a.).	AHCI	SPV		BdE 2017, 192.
IN-2011	October 2011	India	State Bank of India receives USD 1.8BN government capital injection after Moody's downgrade and rise in NPAs hits wider sector;	AHCI		STOW	Financial Times, February 22, 2012.
FRA-2011	October 2011	France	Main recaps and other interventions date from 2008-2010 via SPPE (incl. Societe Generale, BNP, s.a.). France participates in new Dexia guarantees – recap by Belgium.	OLG			Igan et al 2019, 54f., 77f.
BEL-2011	October 2011	Belgium	Ethias recap with EUR 278M debt instruments, after 2009 equity injection. [Unable to locate in official sources]. Dexia is fully nationalized with new EUR 55BN guarantee agreement for new liabilities.	AHCI, OLG			Igan et al 2019, 50, 77f.; Baron, Verner, Xiong 2021.
EU-2011	December 2011	Eurozone	ECB conducts LTRO, with main auctions in December 2011 and Feb. 2012. Liquidity provision equivalent to 10.8% of Eurozone 2011 GDP.	BBEL			Darracq-Paries and De Santis 2015.
IT-2011	December 2011	Italy	Main wave of interventions in 2009 and 2015-2017; for 2011, BPM receives EUR 1BN guarantee (December decree law 201).	OLG			BPM 2012, 623; Igan et al 2019, 62f.
GRE-2010	December 2011	Greece	Capital injections into NBG, Piraeus, and TT Hellenic Postbank. EUR 1.4BN and in TT case compensation for funding gap (not officially counted as recap).	AHCI			Homar 2016, 40.

	May 2012	Greece	"Bridge recapitalization" for four Greek banks, via HFSF provision of floating notes totaling EUR 18BN, of which EUR 4.7BN to Piraeus Bank.	BBCI	SPV	EC 2012a. EC 2012b.
LUX-2012	March 2012	Luxemburg	Dexia second round bailout in 2011-2013 (joint with Belgium and Netherlands). Luxemburg with minor contribution to new guarantee package, but no recap participation. Luxembourg subsidiary privatized.	OLG, RES		Igan et al 2019, 78.
NL-2011	May 2012	Netherlands	Passing of "Special Measures Financial Companies Act" granting wide range of new intervention powers, incl. expropriation and transfer of shares of affected banks.	ORL, RES		DNB 2012, 48.
CY-2011	June 2012	Cyprus	Nationalization of Laiki Bank, via 84% stake through EUR 1.8BN bond-for-equity transaction. Split into good bankbad bank.	AHCI, RES		IMF 2014c, 34.
PT-2012	June 2012	Portugal	EUR 4.5BN recaps of BCP and Banco BPI via hybrid securities under Portuguese recap scheme.	AHCI		Homar 2016, 42.
EU-2012	July 2012	Eurozone	"Whatever it takes" speech by Mario Draghi: significant compression of risk premia and European bank outperformance. xxxix	МС		Alcarez et al. 2019.
FRA-2012	September 2012	France	EUR 18BN state guarantee to Credit Immobilier de France (CIF). EC approval February 21, 2013.	ASG, OLG		EC, February 21, 2012.

CR-2012	October 2012	Croatia	Croatia Bank recapitalized with HRK 250M in equity.	AHCI		STOW	Igan et al. 2019, 51.
ES-2010	September 2012	Spain	EUR 4.5BN capital injection into BFA-Bankia via FROB.	AHCI	SPV		BdE 2017, 191.
ES-2010	December 2012	Spain	EUR 13.5BN capital injection into BFA-Bankia via FROB: "non-monetary aid in form of ESM securities".	AHCI	SPV		BdE 2017, 191.
IT-2013	February 2013	Italy	Second state recapitalization for BMPS, net increase of EUR 2.2BN from 2009 gvt. subscription, via new "Monti bonds".	АНСІ			EP (2018) documentation.
NL-2013	February 2013	Netherlands	Bail-in of junior bondholders at SNS Reaal, and nationalization of bank (EUR 3.7BN).	AHCI, BAIL			World Bank 2016, 45ff.
CY-2011	March 2013	Cyprus	Bail-in of equity and bondholders, and recap of Bank of Cyprus via deposit-to-equity conversion; other demand deposits restructured into time deposits. New Resolution Regime Law passed, bank holiday and daily withdrawal limits.	BAIL, ORL, RES, SBH		PRI-PRI (partly)	IMF 2014d, 43ff.
UK-2013	June 2013	United Kingdom	Cooperative Bank recapitalization under LME framework - private "consensual" bail-in.	BAIL			World Bank 2016, 73ff.
SLV-2013	December 2013	Slovenia	BAMC (Bank Asset Management Company) established as bad bank and recap vehicle.	AHCI, BAIL, BBAM	SPV	STOW	Arnesen 2014; World Bank 2016, 61ff.

			Recapitalizations of state-owned NLB, NKBM, and Abanka with bail-in measures.		
	December 2013	Slovenia	Sovereign guarantee on central bank ELA credits (EUR 1.03BN).	BBEL, OLG	World Bank 2016, 61ff.
	February 2014	Ukraine	Ca. 1.7% of GDP in bank recapitalization costs over 2014, multiple interventions to strengthen sector.	BBCI	IMF 2015c, 10f., 35.
UKR-2014	March 2014	Ukraine	Deposit freeze for 40 months.	SBH	IMF 2014c, 10f.; Laeven and Valencia.
BUG-2014	June 2014	Bulgaria	BGN 3.3BN emergency credit line to Bulgarian banking system to counter speculative attacks, including to FIB.	BBEL	EC, June 30, 2014.
EU-2014	June 2014	Eurozone	TLTRO I announced.	other	ECB, June 5, 2014.
GIB-2014	2014	Guinea- Bissau	Government in 2015 assumes losses for problem loans at Banco da Africa Oriental and Banco da Uniao, ca. 5.5% of GDP. Later backtracked under IMF pressure.	AHEL	IMF 2016b, 6; Laeven and Valencia.
MD-2014	November 2014	Moldova	EUR 870M (MDL 14.5BN) bank bailout via secret emergency loans for three banks after placed under special administration, amid fraud scandal.	AHEL	IMF 2016a, 8; Laeven and Valencia.

HUG-2014	November 2014	Hungary	MARK asset management company established to purchase real estate loans on voluntary basis; initial HUF 300BN (USD 1.3BN) approved volume.	BBAM	SPV		IMF 2015b, 7.
RUS-2014	December 2014	Russia	Launch of bank recapitalization program of 1.2% of GDP to counter international sanctions impact. Offering government bonds (OFZ) in exchange for debt or pref shares.	BBCI		STOW (partly)	IMF 2015b, 16.
PT-2014	August 2014	Portugal	BES resolution: Portuguese Resolution Fund and some minor private recapitalization contributions to new bridge bank Novo Banco; EUR 3.5BN bank bond guarantee.	AHCI, BAIL, OLG	SPV	PRI-PRI (partly)	Igan et al. 2019, 67f.; World Bank 2016, 52ff.
VN-2014	2014	Venezuela	Main interventions occur 2009 and 2010: creation of Banco Bicentario 2009, takeover of Banco Federal in June 2010.	AHCI, RES			Baron, Verner, Xiong 2020.
GRE-2015	February 2015	Greece	Bank of Greece begins extending ELA liquidity assistance to Greek banks, with implicit (later explicit) ECB support.	BBEL			ECB, February 4, 2015.
GER-2015	March 2015	Germany	Private German Bank Association (BdB) assumes control of Duesseldorfer Hypo (EUR 11BN assets) from Lone Star after looming default.	AHCI	ASSOC	PRI-PRI	FAZ, March 16, 2015; BaFin 2016, 25.
DK-2015	March 2015	Denmark	Renewed bank stress: resolution of Andelskassen under BRRD regime.	BAIL		PRI-PRI (partly)	World Bank 2016, 26f.

UKR-2014	March 2015	Ukraine	IMF approves USD 17.5BN support program which mandates comprehensive banking sector resolution and recapitalizations, major recaps include Dec.2016 UAH 116BN Privat Bank nationalization and others. Various refin loans extended (UAH 15BN to Privat Bank).	AHEL, BBCI		STOW (partly)	IMF 2015c.; Igan et al 2019, 73.
TN-2015	August 2015	Tunisia	Capital injections into Société Tunisienne de Banque and Banque de l'Habitat, with participation from IMF/World Bank.	AHCI		STOW	Manek 2015.
IT-2015	November 2015	Italy	Banca d'Italia intervention into Banca Marche, Banca Poppolare dell'Etruria, Cassa di Risparmento di Ferrara and di Chieti: EUR 3.6BN recap from "Resolution Fund" private contributions via BRRD regime.	AHCI, BAIL, RES	SPV	PRI-PRI (partly)	Banca d'Italia, November 22, 2015; World Bank 2016, 38ff.
	November 2015	Italy	National Resolution Fund established: asset transfer and EUR 400M asset guarantee (qualifies as state aid).	BBAM, ASG	SPV	PRI-PRI (partly)	EC, November 22, 2015.
GRE-2015	November 2015	Greece	EUR 2.72BN capital injection into Piraeus Bank, via combination of equity and contingent convertible capital. Bail-in components under BRRD.	AHCI, BAIL			EC, November 29, 2015; World Bank 2016, 29ff.
BRL-2015	November 2015	Brazil	Concerns over BTG Pactual: Real 5BN emergency assistance by FGC, as central bank deems potential failure "systemic threat".	AHEL			IMF 2018b, 40.
HUG-2014	December 2015	Hungary	MKB bank resolution and asset transfer: bail-in of state owners, no subordinated debtors.	BAIL		STOW	EC, December 16, 2015.

EU-2016	March 2016	Eurozone	ECB announces TLTRO II program, to be conducted over June 2016 – March 2017.	other			ECB, March 10, 2016.
UKR-2014	December 2016	Ukraine	Bail in at NBU amid sector-wide recapitalization moves (see above).	BAIL			Sadowski 2017, 21.
IT-2015	December 2016	Italy	Third <i>BMPS</i> state recap., for new EUR 5.4BN, in return for discounted equity. EUR 1.5BN state compensation for retail investors. EC approval in July 2017.	AHCI			EC, July 4, 2017; IMF 2020, 19.
	January 2017	Italy	First gvt. liquidity support line for Veneto Banca, and Popolare di Vicenza. Second line in April 2017.	AHEL			IMF 2018c, 12.
KZ-2017	March 2017	Kazakhstan	Public bad bank ("Problem loan fund") purchases USD 2.4BN in bad assets from KKB, to enable restructuring and takeover by Halyk Bank.	BBAM	SPV		IMF 2018a, 24, 26.
COS-2017	May 2017	Costa Rica	Intervention into Bancredito after persistent losses: takeover by regulatory SUGEF, then absorption by Banco Nacional de Costa Rica. Colones 2BN loans.	AHEL, RES		STOW	OECD 2018, 49.
RUS-2017	August 2017	Russia	Bail out of Otkritie, and later B&N Bank, via USD 14BN injections from "Fund for Banking Sector Consolidation".	AHCI	SPV		Dobryshevsky, Trunin, and Khromov 2017, 11ff.
IN-2017	October 2017	India	Government announces USD 33BN bank recapitalization, aimed at state-owned institutions, to clean up balance sheets, foster NPL resolution. Disbursion starts 2018.	BBCI, ORL		STOW	IMF 2017a, 86.

			Modifications of 2015-6 corporate debt restructuring schemes.				
RUS-2017	December 2017	Russia	Bailout of PSB, ca. USD 2.5BN injection from "Fund for Banking Sector Consolidation". All but subordinated debt liabilities honored.	АНСІ	SPV		Dobryshevsky, Trunin, and Khromov 2017, 11ff.
CY-2018	June 2018	Cyprus	EUR 3.5BN state guarantee to CCB, including asset protection scheme, related to liquidation, transfer of assets to Hellenic.	ASG ST		STOW	EC, June 19, 2018.
IT-2015	November 2018	Italy	Deposit insurance fund (FITD) subscribes to EUR 320M capital increase; JanDec 2019 sees state guarantee to bond issuance, and sees further equity issuance, led by FITD.	AHCI, OLG	SPV		IMF 2020, 19.
CN-2019	May 2019	China	Government takeover of <i>Baoshang Bank</i> , guarantee on all interbank liabilities below CNY 50M and corporate deposits. <i>China Construction Bank</i> takes over operations.	AHCI			Caixin 2019; PBoC (official A.).
KY-2019	August 2019	Kenya	Treasury bails out Consolidated Bank of Kenya, partially covering corporate debt payments (via KSh 1.6BN capital injection).	AHCI		STOW	Business Daily Nairobi, September 5, 2019; CB 2020.
GER-2019	December 2019	Germany	State guarantee over 0.8BN EUR assets for HSH Nordbank.	ASG		STOW	EC, December 5, 2019.

CN-2019	December 2019	China	Bailout of <i>Hengfeng Bank</i> via SWF and other state lenders, RMB 100BN.	АНСІ	SWF (partly)		The Wall Street Journal, April 6, 2020.
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