

MSCI Private Real Assets Indexes

2021 Schedule

Release Date (Local)	Release Time (Local)	Name	Region	Index type	Period
January					
Monday, 11 January 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M12 2020
Tuesday, 12 January 2021	EOD (GMT)	MSCI Global Quarterly Private Infrastructure Index (Unfrozen)	Global	Consultative Index	Q3 2020
Thursday, 14 January 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M12 2020
Friday, 15 January 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M09 2020
Friday, 15 January 2021	15:00 (GMT)	MSCI UK Monthly Property Index	EMEA	Direct Index	M12 2020
Tuesday, 19 January 2021	15:00 (GMT)	MSCI/AREF UK Quarterly Property Fund Index	EMEA	Fund Index	Q4 2020
Friday, 22 January 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M12 2020
Monday, 25 January 2021	EOD (AET)	The Property Council of Australia/MSCI Australia Unlisted Retail Quarterly Property Fund Index (Unfrozen)	Asia Pacific	Fund Index	Q4 2020
Tuesday, 26 January 2021	15:00 (GMT)	MSCI/SCSI Ireland Quarterly Property Index (Unfrozen)	EMEA	Direct Index	Q4 2020
Friday, 29 January 2021	16:00 (GMT)	MSCI France Capital Growth Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Friday, 29 January 2021	EOD (CST)	MSCI/PREA U.S. ACQE Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q4 2020
Friday, 29 January 2021	14:00 (EST)	MSCI/REALPAC Canada Annual Property Index (Unfrozen) Published Quarterly	North America	Direct Index	Q4 2020
Friday, 29 January 2021	14:00 (EST)	MSCI/REALPAC Canada Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q4 2020
February					
Tuesday, 2 February 2021	EOD (AET)	MSCI Australia Quarterly Private Infrastructure Fund Index (Unfrozen)	Asia Pacific	Fund Index	Q4 2020
Wednesday, 3 February 2021	15:00 (GMT)	MSCI UK Quarterly Property Index	EMEA	Direct Index	Q4 2020
Friday, 5 February 2021	EOD (AET)	Property Council /MSCI Australia Core Wholesale Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q4 2020
Friday, 5 February 2021	EOD (CST)	MSCI/PREA U.S. AFQE Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q4 2020
Monday, 8 February 2021	EOD (CST)	MSCI U.S. Quarterly Property Index (Unfrozen)	North America	Direct Index	Q4 2020
Tuesday, 9 February 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M01 2021
Wednesday, 10 February 2021	15:00 (CET)	MSCI Netherlands Quarterly Property Index (Unfrozen)	EMEA	Direct Index	Q4 2020
Tuesday, 10 February 2021	EOD (EST)	MSCI/REALPAC Canada Green Annual Property Index (Unfrozen) Published Quarterly	North America	Direct Index	Q4 2020
Thursday, 11 February 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M01 2021
Friday, 12 February 2021	EOD (CET)	MSCI Germany SFIIX Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q4 2020
Friday, 12 February 2021	15:00 (GMT)	MSCI UK Monthly Property Index	EMEA	Direct Index	M01 2021
Monday, 15 February 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Hotel Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q4 2020
Monday, 15 February 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Healthcare Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q4 2020
Monday, 15 February 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q4 2020
Monday, 15 February 2021	SOD (NZST)	MSCI/PCNZ New Zealand Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q4 2020
Wednesday, 17 February 2021	16:00 (CET)	MSCI Sweden Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Wednesday, 17 February 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M10 2020
Thursday, 18 February 2021	EOD (SAST)	MSCI South Africa Quarterly Retail Trading Density Index (Unfrozen)	EMEA	Benchmark Service	Q4 2020
Friday, 19 February 2021	EOD (WET)	APFIPP/MSCI Portugal Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q4 2020
Thursday, 25 February 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M01 2021
Friday, 26 February 2021	15:00 (GMT)	MSCI Pan-European Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q4 2020
Friday, 26 February 2021	16:00 (CET)	MSCI France OPCI Biannual Property Fund Index (Unfrozen)	EMEA	Fund Index	H2 2020
Friday, 26 February 2021	EOD (CET)	MSCI Europe Quarterly Property Transaction-linked Indicator (Unfrozen; Weighting: Market Size)	EMEA	Indicator	Q4 2020
March					
Tuesday, 2 March 2021	15:00 (GMT)	MSCI UK Healthcare Annual Property Index	EMEA	Direct Index	A Dec 2020
Tuesday, 2 March 2021	15:00 (GMT)	MSCI UK Annual Property Index	EMEA	Direct Index	A Dec 2020
Tuesday, 2 March 2021	15:00 (GMT)	MSCI UK Residential Annual Property Index	EMEA	Direct Index	A Dec 2020
Thursday, 4 March 2021	10:00 (CET)	MSCI Norway Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 9 March 2021	EOD (CET)	MSCI Nordic Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q4 2020
Thursday, 11 March 2021	10:00 (CET)	MSCI Netherlands Annual Property Index	EMEA	Direct Index	A Dec 2020
Thursday, 11 March 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M02 2021
Thursday, 11 March 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M02 2021
Friday, 12 March 2021	15:00 (GMT)	MSCI UK Monthly Property Index	EMEA	Direct Index	M02 2021
Friday, 12 March 2021	EOD (GMT)	MSCI Global Quarterly Property Fund Index (Unfrozen)	Global	Fund Index	Q4 2020
Tuesday, 16 March 2021	16:00 (CET)	MSCI France Biannual Property Index (Unfrozen)	EMEA	Direct Index	H2 2020
Tuesday, 16 March 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M11 2020
Wednesday, 17 March 2021	EOD (CST)	MSCI U.S. Annual Property Index (Unfrozen)	North America	Direct Index	A Dec 2020
Monday, 22 March 2021	12:00 (CET)	MSCI/Wuest Partner Switzerland Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Monday, 22 March 2021	EOD (BRT)	MSCI Brazil Annual Property Index (Unfrozen) Published Quarterly	South America	Direct Index	Q4 2020
Tuesday, 23 March 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M02 2021
Wednesday, 24 March 2021	15:00 (CET)	MSCI Germany Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Wednesday, 24 March 2021	15:00 (WET)	MSCI Portugal Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Wednesday, 24 March 2021	08:00 CET	MSCI Sweden Annual Residential Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Friday, 26 March 2021	16:00 CET	MSCI France Annual Property Index	EMEA	Direct Index	A Dec 2020
Tuesday, 30 March 2021	EOD (CET)	MSCI Hungary Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 30 March 2021	EOD (CET)	MSCI Czech Republic Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 30 March 2021	EOD (CET)	MSCI Poland Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 30 March 2021	EOD (CET)	MSCI Austria Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 30 March 2021	EOD (CET)	MSCI CEE Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 30 March 2021	15:00 (WET)	MSCI Spain Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Wednesday, 31 March 2021	12:00 (CET)	MSCI France Healthcare Annual Property Index	EMEA	Direct Index	A Dec 2020
April					
Thursday, 1 April 2021	10:00 (CET)	MSCI Belgium Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Friday, 2 April 2021	EOD (GMT)	MSCI Iberia Annual Property Index (Unfrozen; Weighting: Market Size)	EMEA	Direct Index	A Dec 2020
Tuesday, 6 April 2021	08:00 (CET)	MSCI Denmark Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Tuesday, 6 April 2021	19:00 (CET)	MSCI Italy Biannual Property Index (Unfrozen)	EMEA	Fund Index	H2 2020
Tuesday, 6 April 2021	19:00 (CET)	MSCI Italy Biannual Property Fund Index (Unfrozen)	EMEA	Direct Index	H2 2020
Thursday, 8 April 2021	15:00 (CET)	MSCI Italy Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Friday, 9 April 2021	EOD (SAST)	MSCI South Africa Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Friday, 9 April 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M03 2021
Friday, 9 April 2021	EOD (CET)	MSCI Nordic Annual Property Index (Unfrozen; Weighting: Market Size)	EMEA	Direct Index	A Dec 2020
Monday, 12 April 2021	EOD (KST)	MSCI Korea Annual Property Index (Unfrozen)	Asia Pacific	Direct Index	A Dec 2020
Wednesday, 14 April 2021	EOD (BST)	MSCI Europe Annual Property Index (Unfrozen; Weighting: Market Size)	EMEA	Direct Index	A Dec 2020
Thursday, 15 April 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M03 2021
Friday, 16 April 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M12 2020
Friday, 16 April 2021	15:00 (BST)	MSCI UK Monthly Property Index	EMEA	Direct Index	M03 2021
Friday, 16 April 2021	EOD (BST)	MSCI Europe Hotel Annual Property Index (Unfrozen; Weighting: Market Size)	EMEA	Consultative Index	A Dec 2020
Friday, 16 April 2021	EOD (CET)	MSCI France Green Annual Property Index	EMEA	Direct Index	A Dec 2020
Tuesday, 20 April 2021	15:00 (BST)	MSCI/AREF UK Quarterly Property Fund Index	EMEA	Fund Index	Q1 2021
Thursday, 22 April 2021	EOD (BST)	MSCI Global Annual Property Index (Unfrozen; Weighting: Market Size)	Global	Direct Index	A Dec 2020
Friday, 23 April 2021	EOD (SGT)	MSCI Singapore Annual Property Index (Unfrozen)	Asia Pacific	Direct Index	A Dec 2020
Friday, 23 April 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M03 2021
Friday, 23 April 2021	EOD (CET)	MSCI Europe Quarterly Property Transaction-linked Indicator (Unfrozen; Weighting: Market Size)	EMEA	Indicator	Q4 2020
Monday, 26 April 2021	EOD (AET)	The Property Council of Australia/MSCI Australia Unlisted Retail Quarterly Property Fund Index (Unfrozen)	Asia Pacific	Fund Index	Q1 2021
Tuesday, 27 April 2021	15:00 (BST)	MSCI/SCSI Ireland Quarterly Property Index (Unfrozen)	EMEA	Direct Index	Q1 2021
Friday, 30 April 2021	EOD (SAST)	MSCI South Africa Green Annual Property Index (Unfrozen)	EMEA	Direct Index	A Dec 2020
Friday, 30 April 2021	14:00 (EST)	MSCI/REALPAC Canada Annual Property Index (Unfrozen) Published Quarterly	North America	Direct Index	Q1 2021
Friday, 30 April 2021	14:00 (EST)	MSCI/REALPAC Canada Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q1 2021
Friday, 30 April 2021	EOD (CST)	MSCI/PREA U.S. ACQE Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q1 2021
May					
Monday, 3 May 2021	EOD (AET)	MSCI Australia Quarterly Private Infrastructure Fund Index (Unfrozen)	Asia Pacific	Fund Index	Q1 2021
Wednesday, 5 May 2021	EOD (MYT)	MSCI Malaysia Annual Property Index (Unfrozen)	Asia Pacific	Direct Index	A Dec 2020
Thursday, 6 May 2021	15:00 (BST)	MSCI UK Quarterly Property Index	EMEA	Direct Index	Q1 2021
Friday, 7 May 2021	EOD (AET)	Property Council /MSCI Australia Core Wholesale Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q1 2021
Friday, 7 May 2021	EOD (CST)	MSCI/PREA U.S. AFQE Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q1 2021
Monday, 10 May 2021	EOD (CST)	MSCI U.S. Quarterly Property Index (Unfrozen)	North America	Direct Index	Q1 2021
Tuesday, 11 May 2021	15:00 (CET)	MSCI Netherlands Quarterly Property Index (Unfrozen)	EMEA	Direct Index	Q1 2021
Tuesday, 11 May 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M04 2021
Wednesday, 12 May 2021	EOD (EST)	MSCI/REALPAC Canada Green Annual Property Index (Unfrozen) Published Quarterly	North America	Direct Index	Q1 2021
Thursday, 13 May 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M04 2021
Friday, 14 May 2021	EOD (HKCT)	MSCI Hong Kong Annual Property Index (Unfrozen)	Asia Pacific	Direct Index	A Dec 2020
Friday, 14 May 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Hotel Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q1 2021
Friday, 14 May 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Healthcare Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q1 2021
Friday, 14 May 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q1 2021
Friday, 14 May 2021	EOD (BST)	MSCI Global Quarterly Private Infrastructure Index (Unfrozen)	Global	Consultative Index	Q4 2020
Monday, 17 May 2021	SOD (NZST)	MSCI/PCNZ New Zealand Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q1 2021
Monday, 17 May 2021	EOD (CET)	MSCI Germany SFIIX Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q1 2021
Monday, 17 May 2021	15:00 (BST)	MSCI UK Monthly Property Index	EMEA	Direct Index	M04 2021
Tuesday, 18 May 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M01 2021
Thursday, 20 May 2021	EOD (SAST)	MSCI South Africa Quarterly Retail Trading Density Index (Unfrozen)	EMEA	Benchmark Service	Q1 2021
Friday, 21 May 2021	EOD (WET)	APFIPP/MSCI Portugal Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q1 2021
Wednesday, 26 May 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M04 2021
Friday, 28 May 2021	EOD (JST)	MSCI Asia Annual Property Index (Unfrozen; Weighting: Market Size)	Asia Pacific	Direct Index	A Dec 2020
Friday, 28 May 2021	EOD (CET)	MSCI Europe Quarterly Property Transaction-linked Indicator (Unfrozen; Weighting: Market Size)	EMEA	Indicator	Q1 2021
June					
Tuesday, 1 June 2021	15:00 (BST)	MSCI Pan-European Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q1 2021
Friday, 4 June 2021	EOD (BST)	MSCI Global Quarterly Property Fund Index (Unfrozen)	Global	Fund Index	Q1 2021
Monday, 7 June 2021	EOD (BRT)	MSCI Brazil Annual Property Index (Unfrozen) Published Quarterly	South America	Direct Index	Q1 2021
Tuesday, 8 June 2021	EOD (CET)	MSCI Nordic Quarterly Property Fund Index (Unfrozen)	EMEA	Fund Index	Q1 2021
Wednesday, 9 June 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M05 2021
Monday, 14 June 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M05 2021
Monday, 14 June 2021	15:00 (BST)	MSCI UK Monthly Property Index	EMEA	Direct Index	M05 2021
Wednesday, 16 June 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M02 2021
Friday, 18 June 2021	EOD (BST)	MSCI Global Quarterly Private Infrastructure Index (Unfrozen)	Global	Consultative Index	Q1 2021
Wednesday, 23 June 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M05 2021
July					
Friday, 9 July 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M06 2021
Tuesday, 13 July 2021	09:00 (AET)	MSCI/Mercer Australia Core Wholesale Monthly Property Fund Index	Asia Pacific	Fund Index	M06 2021
Wednesday, 14 July 2021	15:00 (BST)	MSCI UK Monthly Property Index	EMEA	Direct Index	M06 2021
Friday, 16 July 2021	EOD (JST)	MSCI Japan Annual Property Index (Unfrozen) published Monthly	Asia Pacific	Direct Index	M03 2021
Friday, 16 July 2021	15:00 (BST)	MSCI/AREF UK Quarterly Property Fund Index	EMEA	Fund Index	Q2 2021
Wednesday, 21 July 2021	EOD (AET)	The Property Council of Australia/MSCI Australia Unlisted Retail Quarterly Property Fund Index (Unfrozen)	Asia Pacific	Fund Index	Q2 2021
Friday, 23 July 2021	15:00 (BST)	MSCI/SCSI Ireland Quarterly Property Index (Unfrozen)	EMEA	Direct Index	Q2 2021
Monday, 26 July 2021	EOD (JST)	MSCI/Recruit Japan Monthly House Price Index (Unfrozen)	Asia Pacific	Direct Index	M06 2021
Thursday, 29 July 2021	EOD (AET)	MSCI Australia Quarterly Private Infrastructure Fund Index (Unfrozen)	Asia Pacific	Fund Index	Q2 2021
Friday, 30 July 2021	EOD (CST)	MSCI/PREA U.S. ACQE Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q2 2021
August					
Monday, 2 August 2021	15:00 (BST)	MSCI UK Quarterly Property Index	EMEA	Direct Index	Q2 2021
Monday, 2 August 2021	14:00 (EST)	MSCI/REALPAC Canada Annual Property Index (Unfrozen) Published Quarterly	North America	Direct Index	Q2 2021
Monday, 2 August 2021	14:00 (EST)	MSCI/REALPAC Canada Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q2 2021
Wednesday, 4 August 2021	EOD (AET)	Property Council /MSCI Australia Core Wholesale Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q2 2021
Friday, 6 August 2021	EOD (CST)	MSCI/PREA U.S. AFQE Quarterly Property Fund Index (Unfrozen)	North America	Fund Index	Q2 2021
Monday, 9 August 2021	EOD (CST)	MSCI U.S. Quarterly Property Index (Unfrozen)	North America	Direct Index	Q2 2021
Tuesday, 10 August 2021	15:00 (CET)	MSCI Netherlands Quarterly Property Index (Unfrozen)	EMEA	Direct Index	Q2 2021
Tuesday, 10 August 2021	EOD (CET)	MSCI Germany OFIX Monthly Property Fund Index (Unfrozen)	EMEA	Fund Index	M07 2021
Wednesday, 11 August 2021	EOD (EST)	MSCI/REALPAC Canada Green Annual Property Index (Unfrozen) Published Quarterly	North America	Direct Index	Q2 2021
Wednesday, 11 August 2021	SOD (NZST)	MSCI/PCNZ New Zealand Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q2 2021
Wednesday, 11 August 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Hotel Annual Property Index (Unfrozen) Published Quarterly	Asia Pacific	Direct Index	Q2 2021
Wednesday, 11 August 2021	SOD (AET)	The Property Council of Australia/MSCI Australia Healthcare Annual Property Index (Unfrozen			