

NZCH AD 2.1 CHRISTCHURCH

NZCH	CHRISTCHURCH
-------------	---------------------

NZCH AD 2.2 Aerodrome Geographical and Administration Data

1	ARP coordinates and site at AD	S43 29 22 E172 32 04 257°T 489 m from tower
2	Direction and distance from (city)	5 NM WNW of Christchurch
3	Elevation/Reference temperature	123 ft/22.4°C (January)
4	MAG VAR/Annual change	23°35'E (Jan 2007)/annual change +3.1'
5	AD Administration	The Chief Executive Christchurch International Airport Limited PO Box 14001 Christchurch Airport 8544 NEW ZEALAND Tel: (03) 358 5029 Fax: (03) 353 7730
6	Types of traffic permitted	IFR/VFR
7	Remarks	From time to time the airport operator is required to carry out rehabilitation work on RWY 02/20. As a consequence there are two modes of operation at Christchurch, and the procedures applicable to each mode of operation are as follows: (a) RWY 02/20 Normal Operations (full length) — refer to WHITE pages. (b) RWY 02/20 RWY WIP NORTH/SOUTH (displaced threshold/reduced length operations) — refer to YELLOW pages. Notice of planned activation of RWY WIP will be by NOTAM where possible with 72 HR notice. Procedures applicable to operations on all RWY are on WHITE pages.

NZCH AD 2.3 Operational Hours

1	AD Administration	H24
2	Customs and Immigration	H24
3	Health and Sanitation	H24
4	AIS Briefing Office	H24
5	ATS Reporting Office (ARO)	
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	H24 by arrangement
9	Handling	H24
10	Security	H24
11	De-icing	By arrangement with handling agent
12	Remarks	RWYs reserved for maintenance Monday 0045 – 0515 local time. Scheduled operations during this time by prior arrangement. Runway closure to be advised by NOTAM.

NZCH AD 2.4 Handling Services and Facilities

1	Cargo-handling Facilities	By arrangement with operating companies only
2	Fuel/Oil Types	Avgas 100; Jet A1; FSII
3	Fuelling Facilities/Capacity	H24 by arrangement
4	De-icing Facilities	By arrangement with handling agent
5	Hangar Space for Visiting Aircraft	Limited, by prior arrangement
6	Repair Facilities for Visiting Aircraft	Major repairs
7	Remarks	

NZCH AD 2.5 Passenger Facilities

1	Hotels	Hotels near aerodrome; unlimited in city
2	Restaurants	In terminal and in city
3	Transportation	Taxis, rental cars, buses
4	Medical Facilities	Available (AFS medical assistance, first aid rooms)
5	Bank or Post Office	Available in terminal building
6	Tourist Office	Available in terminal building
7	Remarks	

NZCH AD 2.6 Rescue and Fire Fighting Services

1	AD Category for Fire Fighting	Category 9
2	Rescue Equipment	Portable lighting, power cutting equipment, hand tools, power forcing equipment, breathing apparatus, medical equipment, communications equipment, power fans.
3	Capability for Removal of Disabled Aircraft	For aircraft up to 60,000 kg: equipment available locally. For aircraft up to 140,000 kg: equipment available from Auckland. For aircraft over 140,000 kg: IATA kit ex Sydney.
4	Remarks	

NZCH AD 2.7 Seasonable Availability — Clearing

1	Types of Clearing Equipment	Grader, rotary broom, snow plough
2	Clearance Priorities	RWY 02/20
3	Remarks	

NZCH AD 2.8 Aprons, Taxiways and Check Locations Data

1	Apron Surface and Strength	Bitumen; PCN 60/F/B/X/U		
2	Taxiway Width, Surface and Strength	23 m; Bitumen; TWY A18 width 15 m TWY E: PCN 40/F/A/X/T Remainder: PCN 60/F/B/X/U		
3	ACL and Elevation	RWY 02 threshold: 123 ft RWY 20 threshold: 93 ft RWY 11 threshold: 115 ft RWY 29 threshold: 95 ft		
4	VOR/INS Checkpoints	VOR checkpoints at holding points for RWYs 02, 20, 11 and 29, as designated on Ground Movement (1) chart		
		Stand Co-ordinates — datum for each stand is intersection of centreline and stop bar.		
		3	S43 29 31.88	E172 32 29.61
		4	S43 29 31.27	E172 32 28.60
		5	S43 29 30.16	E172 32 27.32
		6	S43 29 29.12	E172 32 25.67
		7	S43 29 28.12	E172 32 23.98
		8	S43 29 27.08	E172 32 22.30
		9	S43 29 25.22	E172 32 23.12
		10	S43 29 24.61	E172 32 21.87
		11	S43 29 23.9	E172 32 20.4
		12	S43 29 24.7	E172 32 18.9
		15	S43 29 22.42	E172 32 18.54
		16	S43 29 21.57	E172 32 17.17
		17	S43 29 20.61	E172 32 13.35
		18	S43 29 19.37	E172 32 13.60
		19	S43 29 19.4	E172 32 16.6
		20	S43 29 18.60	E172 32 18.00
		21	S43 29 16.60	E172 32 18.15
		22	S43 29 15.56	E172 32 18.36
26	S43 29 14.64	E172 32 20.87		
27	S43 29 13.19	E172 32 21.76		
28	S43 29 12.12	E172 32 23.27		
29	S43 29 11.07	E172 32 26.20		

Continued on next page

4	VOR/INS Checkpoints (cont)	30	S43 29 12.43	E172 32 28.42
		30R	S43 29 12.55	E172 32 28.41
		31	S43 29 12.66	E172 32 30.65
		32	S43 29 13.70	E172 32 31.99
		33	S43 29 13.93	E172 32 33.62
		34	S43 29 14.76	E172 32 32.94
		35	S43 29 14.72	E172 32 33.45
5	Remarks	Taxiway fillets not suitable for A340-600 ACFT.		

NZCH AD 2.9 Surface Movement Guidance and Control System and Markings

1	Use of Aircraft Stand ID Signs, TWY Guide Lines and Visual Docking/Parking Guidance System of Aircraft Stands	NIGS units are located on Stands 15, 16, 17, 18, 20, 21, 22, 26, 27, 28, 29, 30, 30R, 32, 34, 35. Stands 31 and 33 are ground marshal.
2	RWY and TWY Markings and LGT	RWY designation; threshold; centreline; touchdown zone; reduced take-off distance marker boards. Taxiway centreline; holding position.
3	Stop Bars	
4	Remarks	Low visibility operations are detailed in Ground Movements (6), (7) & (8).

NZCH AD 2.10 Aerodrome Obstacles

10.1 General

10.1.1 Data on aerodrome obstacles is published in SUP.

NZCH AD 2.11 Meteorological Information Provided

1	Associated MET Office	Wellington Aviation Weather Centre (WAWC)
2	Hours of Service MET Office outside Hours	H24
3	Office Responsible for TAF preparation Periods of Validity	WAWC
4	Type of Landing Forecast Interval of Issuance	TAF/METAR Four times daily plus amendments
5	Briefing/Consultation Provided	Fax
6	Flight Documentation Language(s) Used	C, PL, Route forecast English
7	Charts and Other Information Available for Briefing or Consultation	S, U, P, W, T, SWH, SWM
8	Supplementary Equipment Available for Providing Information	WXR, APT
9	ATS Units Provided with Information	FIC
10	Additional Information (Limitation of Service etc)	Tel: (04) 472 9379

NZCH AD 2.12 Runway Physical Characteristics

Designations RWY NR	1	02	20	11	29
TRUE and MAG BRG	2	040°T/017°M	220°T/197°M	130°T/107°M	310°T/287°M
Dimensions of RWY (m)	3	3288 x 45	3288 x 45	1741 x 45	1741 x 45
Strength (PCN) and surface of RWY and SWY	4	PCN 72 F/B/X/T Bitumen	PCN 72 F/B/X/T Bitumen	PCN 40 F/A/X/T Bitumen	PCN 40 F/A/X/T Bitumen
THR coordinates	5	S43 29 51.47 E172 31 19.61	S43 28 29.96 E172 32 53.83	S43 29 03.40 E172 31 27.89	S43 29 39.77 E172 32 27.18
THR elevation and highest elevation of TDZ of precision APP RWY	6	123 ft	93 ft	115 ft	95 ft
Slope of RWY-SWY	7	0.28D	0.28U	0.35D	0.35U
SWY Dimensions (m)	8				
CWY Dimensions (m)	9	260 x 300	60 x 300	60 x 150	60 x 150
Strip Dimensions (m)	10	3408 x 300	3408 x 300	1861 x 150	1861 x 150
OFZ	11				
RESA Dimensions (m)	12	240 x 150	240 x 150	240 x 90	240 x 90
Remarks	13	RWY grooved for full length		Not available for Code E or F ACFT (except for emergency use) due to lack of sealed shoulders and incompatible TWY access and egress RWY grooved for full length	

Designations RWY NR	1	02 GR	20 GR
TRUE and MAG BRG	2	040°T/017°M	220°T/197°M
Dimensions of RWY (m)	3	515 x 70	515 x 70
Strength (PCN) and surface of RWY and SWY	4	ESWL 2000 Grass	ESWL 2000 Grass
THR coordinates	5		
THR elevation and highest elevation of TDZ of precision APP RWY	6		
Slope of RWY-SWY	7	Nil	Nil
SWY Dimensions (m)	8		
CWY Dimensions (m)	9		
Strip Dimensions (m)	10		
OFZ	11		
Remarks	12		

NZCH AD 2.13 Declared Distances

Designations RWY NR	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6
02	3288	3548	3288	3288	
20	3288	3348	3288	3288	
02 WIP NORTH Reduced length operation	1920	1920	1920	1920	Runway WIP — Yellow pages apply — RWY 02 length reduced by 1368 m
20 WIP NORTH	TAKE-OFF AND LANDING OPERATIONS RWY 20 PROHIBITED				
02 WIP SOUTH displaced threshold operation	1750	2010	1750	1750	Runway WIP — Yellow pages apply — RWY 02 THR displaced by 1538 m
20 WIP SOUTH Reduced length operation	1750	1810	1750	1750	Runway WIP — Yellow pages apply — RWY 20 length reduced by 1538 m
11	1741	1801	1741	1741	
29	1741	1801	1741	1741	

NZCH AD 2.14 Approach and Runway Lighting

RWY	APCH LGT Type LEN INTST	THR LGT Colour WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN Spacing Colour, INTST	RWY Edge LGT LEN Spacing Colour, INTST	RWY End LGT Colour WBAR	SWY LGT LEN (m) Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02	Uni-directional variable LH, coded CL with 5 white bars. Omni-directional LIL, CL with 2 red bars	Uni-directional LH green with LH wingbars	PAPI 3.00° TCH 73 ft			Omni-directional LH white 60 m	Uni-directional LH red		
20	Uni-directional variable LH, coded CL with 5 white bars. Omni-directional LIL, CL with 2 red bars	Uni-directional LH green with LH wingbars	PAPI 3.00° TCH 73 ft			Omni-directional LH white 60 m	Uni-directional LH red		
02 WIP NORTH	Uni-directional variable LH, coded CL with 5 white bars. Omni-directional LIL, CL with 2 red bars.	Uni-directional LH green with LH wingbars	PAPI 3.00° TCH 73 ft			Omni-directional LH white 60 m	Uni-directional LH red		Runway length reduced by 1368 m
20 WIP NORTH	ALL OPERATIONS ON RWY 20 PROHIBITED DURING WIP NORTH								

NZCH AD 2.14 Approach and Runway Lighting (cont)

RWY	APCH LGT Type LEN INTST	THR LGT Colour WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN Spacing Colour, INTST	RWY Edge LGT LEN Spacing Colour, INTST	RWY End LGT Colour WBAR	SWY LGT LEN (m) Colour	Remarks
1	2	3	4	5	6	7	8	9	10
02 WIP SOUTH	Not AVBL due displaced THR	Inset THR marked by illuminated high intensity green wing markers — both sides of runway	PAPI 3.00° MEHT 53 ft		Not AVBL	No lighting on RWY 02 before DISP THR. Omni- directional LH white 60 m	Uni- directional LH red		THR displaced 1538 m
20 WIP SOUTH	Uni- directional variable high intensity, coded CL with 5 bars white, REL and 3 sequenced strobes — daylight only	Uni- directional high intensity green with high intensity wingbars	PAPI 3.00° TCH 73 ft		Not AVBL	Omni- directional LH white 60 m	Uni- directional LH red		Runway length reduced by 1538 m

NZCH AD 2.14 Approach and Runway Lighting (cont)

RWY	APCH LGT Type LEN INTST	THR LGT Colour WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN Spacing Colour, INTST	RWY Edge LGT LEN Spacing Colour, INTST	RWY End LGT Colour WBAR	SWY LGT LEN (m) Colour	Remarks
1	2	3	4	5	6	7	8	9	10
11	Omni-directional LL, CL with 1 red bar	Uni- directional LL green	PAPI 3.00° TCH 59 ft			Omni- directional LL white 60 m	Uni- directional LH red		
29	Omni-directional LL, CL with 1 red bar	Uni- directional LL green	PAPI 3.00° TCH 58 ft			Omni- directional LL white 60 m	Uni- directional LH red		

NZCH AD 2.15 Other Lighting, Secondary Power Supply

1	ABN/IBN Location, Characteristics and Hours of Operation	ABN FLG W, 2.85 SEC
2	LDI Location and LGT Anemometer Location and LGT	
3	TWY Edge and Centreline LGT	Centreline green
4	Secondary Power Supply/Switch-over	Switch-over time less than 1 sec for operations less than 800 m RVR otherwise within 15 sec.
5	Remarks	Holding position stop lights red. Apron taxiways centreline green. Apron edge blue. Apron floodlighting. Obstacle lighting.

NZCH AD 2.16 Helicopter Landing Area

1	Coordinates TLOF or THR of FATO	S43 29 00 E172 31 40
2	TLOF and/or FATO ELEV m/ft	123 ft
3	TLOF and FATO Area Dimensions, Surface, Strength, Marking	TLOF 12 m x 12 m Grass FATO 40 m x 40 m Grass
4	True and MAG BRG of FATO	
5	Declared Distance Available	
6	APP and FATO Lighting	
7	Remarks	Approach and departure procedures are detailed in the NZCH AD2 - 52.3

NZCH AD 2.17 ATS Airspace

1	Designation and Lateral Limits	Refer New Zealand Air Navigation Register on CAA website
2	Vertical Limits	
3	Airspace Classification	
4	ATS Unit Callsign Languages	Christchurch Tower English
5	Transition Altitude	13,000 ft
6	Remarks	

NZCH AD 2.18 ATS Communication Facilities

Refer Table GEN 3.7-1

NZCH AD 2.19 Radio Navigation and Landing Aids

Refer Table GEN 3.7-1

NZCH AD 2.20 Local Traffic Regulations

20.1 Airport Regulations

20.1.1 There are no further applicable airport regulations.

20.2 Taxiing To and From Stands

20.2.1 There are no established taxiing routes.

20.2.2 An aerodrome control service is not provided for ground movements within the areas designated on the Christchurch Ground Movements charts.

20.2.3 A "Follow Me" service is available on request through Tower.

Arriving Aircraft

20.2.4 Refer Christchurch Ground Movements charts for Communication detail. Itinerant aircraft parking is not available on international apron.

20.2.5 The run-in lines for stands 15, 16, 17, 18, 19, 20, 21, 22, 26, 27, 28, 29, 30, 31, 32, 33, 34 and 35 are shown on Christchurch Ground Movements (2) chart.

Departing Aircraft

20.2.6 Refer Christchurch Ground Movements charts for Communication detail.

20.3 Parking Area for Small Aircraft (General Aviation)

20.3.1 A light aircraft parking area is provided to the west of RWY 02/20 as depicted on Christchurch Ground Movements (3) chart.

20.4 Operations from Grass Runway 02/20

Area

20.4.1 Grass Taxiway D is marked by white marker boards on the eastern edge and yellow marker boards on western edge.

Circuit

20.4.2 Whenever possible circuits should not extend further north or south than abeam the main paved RWY 02/20 thresholds.

Taxiing Procedures

20.4.3 Aircraft after landing vacate to the Western Apron unless otherwise instructed by ATC.

20.4.4 After landing Grass RWY 02 turn left, and after landing Grass RWY 20 turn right.

Taking off, on touch-and-go or low approach

20.4.5 Because of simultaneous operations on the main RWY 02/20 aircraft taking off, on touch-and-go, or low approach **must not converge towards the main runway**. Passing 420 ft AMSL aircraft are to commence a turn to diverge away from the main runway by at least 10°, then fly a square crosswind. The turn is not required if ATC confirm on departure a non-standard turn towards the main runway.

20.5 Parking Area for Helicopters

20.5.1 A helipad and parking area is administered on behalf of CIAL by Christchurch Helicopters. Tel (03) 359 0470 for assistance.

20.6 Apron — Taxiing During Winter Conditions

20.6.1 No special conditions apply.

20.7 Taxiing — Limitations

20.7.1 Taxiway F is available for aircraft with wingspan not exceeding 52 m. Pilots of aircraft with a wingspan between 36 m and 52 m shall advise ATC on first contact to arrange closure of adjacent apron road.

20.7.2 Taxiway A5 does not have shoulders for aircraft above code D or aircraft with four engines. Taxiway can be used at Operator's discretion.

20.8 School and Training Flights — Technical Test Flights — Use of Runways

20.8.1 Restrictions on flight training at Christchurch are prescribed in CAR 93.153.

20.8.2 For Instrument Training and Heavy Wake Turbulence Circuit Training requirements refer ENR 1.9 section 5.

20.9 Helicopter Traffic — Limitations

20.9.1 There are no published limitations for helicopter traffic at Christchurch International Airport.

20.10 Removal of Disabled Aircraft from Runways

20.10.1 See NZCH AD 2.6 Rescue and Fire Fighting Services.

NZCH AD 2.21 Noise Abatement Procedures

21.1 General

21.1.1 There are no published noise abatement procedures for Christchurch International Airport.

NZCH AD 2.22 Flight Procedures

22.1 General

22.1.1 The special rules for aircraft operating in the control zone at Christchurch International Airport are prescribed in CAR Part 93, Subpart D.

Aerodrome Circuit Direction

22.1.2 Unless otherwise authorised by ATC, the circuit direction for:

- (a) RWY 02 and 11 is left-hand; and
- (b) RWY 20 and 29 is right-hand.

Aerodrome Circuit Altitude

22.1.3 Unless otherwise authorised by ATC, and except when climbing after take-off or descending for landing, aircraft must maintain an altitude:

- (a) 900 ft AMSL when operating from or onto the grass runways; and
- (b) 1500 ft AMSL when operating from or onto the paved runways.

22.2 Procedures for IFR Flights

22.2.1 Unless otherwise approved or assigned by ATC, aircraft must fly an instrument approach at the promulgated speeds, with a MNM 150 kt IAS to 5 NM on final approach. If unable to comply with promulgated speeds, advise ATC with preferred speed.

22.3 Radar Procedures

22.3.1 Not applicable

22.4 Procedures for VFR Flights

22.4.1 CAR 93.153 requires the pilot of a powered aircraft operated under VFR in the control zone to be:

- (a) the holder of a current pilot licence; or
- (b) authorised by the holder of an instructor rating under Part 61.

22.4.2 VFR traffic in the circuit is required to maintain an approach speed to sealed runways of not less than 90 kt IAS when above 400 ft AMSL.

22.5 Operations on Main Runway 02/20

22.5.1 Aircraft making a touch-and-go, go-around or missed approach off main RWY 02/20, in VMC, should maintain a track on or east of the runway centreline due to potential grass runway traffic.

NZCH AD 2.23 Additional Information

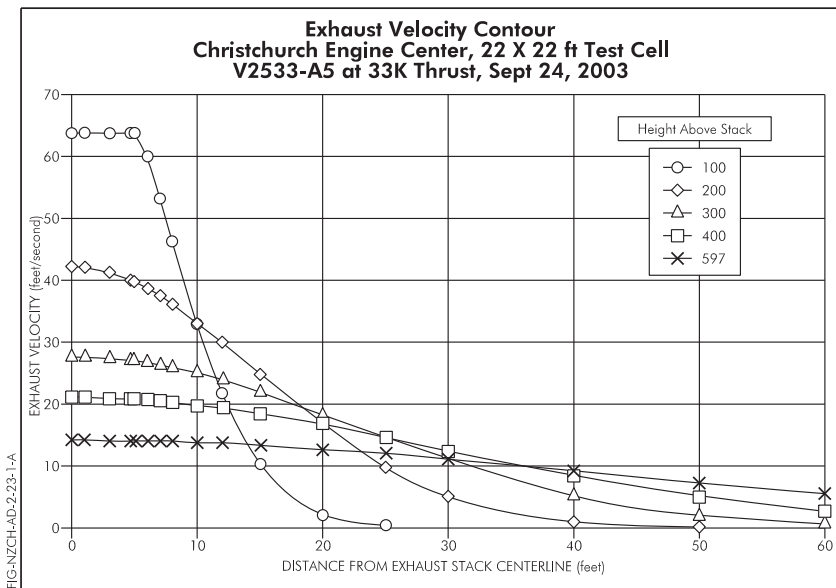
23.1 Bird Concentrations in the Vicinity of the Airport

23.1.1 Various bird types are a problem in the approach areas and on the runway throughout the year. Even large flocks of birds on the aerodrome are not always visible to control tower staff. Pilots will be advised when birds are sighted and are likely to be a hazard.

23.2 Jet Engine Test Cell

23.2.1 The jet engine test cell produces intermittent vertical jet efflux. Exhaust centreline velocities vary from 64 ft/sec at the exhaust outlet (45 ft AGL) to 15 ft/sec at 630 ft AGL at maximum thrust, for the highest rated engine tested at the facility. Exhaust velocities reduce to 5 ft/sec and below at a distance of 60 ft from the exhaust plume centreline. Figure NZCH AD 2.23-1 depicts the exhaust velocity contour.

Figure NZCH AD 2.23-1



NZCH AD 2.24 Charts Related to the Aerodrome

Arrival/Departure

Standard Arrival (STAR)

Visual Arrival and Departure

VFR Arrival and Departure

Instrument Approach

Aerodrome

Operational Data

Ground Movement

Visual Docking

Standard Route Clearances

Standard Departure (SID)

Aerodrome Obstacle chart — Type A — available from Aeronautical Information Management