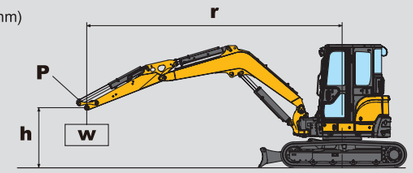
Lifting capacity

Excavator equipped with ROPS/FOPS and rubber tracks
(without quick coupler and without bucket)

r : Reach from swing center line : in(mm)
h : Lift point height : in(mm)
w : Lifting capacity : lbs(kg)
P : Lift point

: Rated over front　: Rated over side



1. The rated lifting capacities that are indicated below are based on ISO 10567 and do not exceed 87% of the excavator's hydraulic lifting capacity or 75% of its static tilt load (tipping load) capacity.
2. The following operating criteria are also applicable to the calculation of these maximum loads;
   a) The "Lift point" is the location of the front point on the arm
   b) The three indicated machine position are :(i) arm over the front end (blade down),(ii) arm over the front end (blade up), and(iii) arm over the side (blade up).
3. The weight of the excavator's bucket, hook, sling and other lifting accessories have been taken into consideration when calculating these maximum loads.

ViO45-6B

LIFT POINT HEIGHT h : in (mm)		r:REACH in (mm)											
		RATED LIFT CAPACITY OVER END BLADE DOWN : lbs (kg)				RATED LIFT CAPACITY OVER END BLADE UP : lbs (kg)				RATED LIFT CAPACITY OVER SIDE BLADE UP : lbs (kg)			
		MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)
157.5	(4000)	✻ 2403 (1090)				✻ 2292 (1040)				1763 (800)			
118.1	(3000)	✻ 2358 (1070)	✻ 2314 (1050)			1543 (700)	1829 (830)			1322 (600)	1587 (720)		
78.7	(2000)	✻ 2425 (1100)	✻ 2645 (1200)	✻ 3306 (1500)		1300 (590)	1719 (780)	✻ 3152 (1430)		1146 (520)	1587 (720)	2425 (1100)	
39.4	(1000)	✻ 2535 (1150)	✻ 3042 (1380)	✻ 4365 (1980)		1256 (570)	1675 (760)	2535 (1150)		1124 (510)	1499 (680)	2204 (1000)	
Ground	(0)	✻ 2579 (1170)	✻ 3284 (1490)	✻ 4585 (2080)	✻ 6459 (2930)	1300 (590)	1587 (720)	2358 (1070)	4166 (1890)	1102 (500)	1366 (620)	2028 (920)	3351 (1520)
-39.4	(-1000)	✻ 2667 (1210)	✻ 2910 (1320)	✻ 4232 (1920)	✻ 6393 (2900)	1521 (690)	1587 (720)	2403 (1090)	4387 (1990)	1322 (600)	1344 (610)	1984 (900)	3571 (1620)
-78.7	(-2000)	✻ 2535 (1150)		✻ 2954 (1340)		✻ 2601 (1180)		2469 (1120)		1940 (880)		2116 (960)	

ViO55-6B

LIFT POINT HEIGHT h : in (mm)		r:REACH in (mm)											
		RATED LIFT CAPACITY OVER END BLADE DOWN : lbs (kg)				RATED LIFT CAPACITY OVER END BLADE UP : lbs (kg)				RATED LIFT CAPACITY OVER SIDE BLADE UP : lbs (kg)			
		MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)	MAX	157.5 (4000)	118.1 (3000)	78.7 (2000)
157.5	(4000)	✻ 2513 (1140)	✻ 2425 (1100)			✻ 2425 (1100)	✻ 2358 (1070)			1895 (860)	✻ 2403 (1090)		
118.1	(3000)	✻ 2513 (1140)	✻ 2579 (1170)			1543 (700)	✻ 2491 (1130)			1521 (690)	✻ 2469 (1120)		
78.7	(2000)	✻ 2557 (1160)	✻ 2976 (1350)	✻ 3924 (1780)		1455 (660)	2204 (1000)	✻ 3791 (1720)		1300 (590)	1962 (890)	✻ 3615 (1640)	
39.4	(1000)	✻ 2645 (1200)	✻ 3439 (1560)	✻ 5004 (2270)		1388 (630)	2094 (950)	3130 (1420)		1234 (560)	1873 (850)	2755 (1250)	
Ground	(0)	✻ 2711 (1230)	✻ 3681 (1680)	✻ 5335 (2420)	✻ 6966 (3160)	1477 (670)	1962 (890)	2976 (1350)	4761 (2160)	1300 (590)	1741 (790)	2579 (1170)	4166 (1890)
-39.4	(-1000)	✻ 2777 (1260)	✻ 3527 (1600)	✻ 5092 (2310)	✻ 7187 (3260)	1609 (730)	1940 (880)	2910 (1320)	4916 (2230)	1455 (660)	1785 (810)	2601 (1180)	4475 (2030)
-78.7	(-2000)	✻ 2623 (1190)		✻ 3902 (1170)		2204 (1000)		2932 (1330)		2072 (940)		2623 (1190)	

Note : The maximum loads marked with an asterrisk (✻) were limited by the Excavator's hydraulic lifting capacity rather than by its static tilt load (tipping load) capacity.

Standard equipment

- Blade
- Boom swing function
- Rubber track / Steel track
- Auxiliary valve and plumbing
- Back mirror
- 2-way control pattern change
- ROPS / FOPS Canopy, Cabin
- Windshield washer (cabin)
- Lock lever
- LCD monitor
- Joystick pilot controls
- Arm rests
- Suspension and reclining seat
- Seat belt retractable
- P.T.O switch
- Engine accelerator knob
- Auto deceleration
- Eco mode
- Engine stop switch
- Traveling alarm
- External power socket
- Cup & bottle holder
- Ash tray (cabin)
- Floor mats
- Evacuation hammer (cabin)

Please note that the standard equipment may vary from this list. Consult your Yanmar dealer for confirmation

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YANMAR

TRUE ZERO TAIL SWING MINI EXCAVATOR

ViO45-6B / ViO55-6B

28.1kW　33.4kW

DESIGNED FOR PROFESSIONAL OPERATORS

Everything a professional operator needs in a mini excavator

ViO45-6B and ViO55-6B are exceptionally designed for professional operators. These 2 models will impress users with their superior fuel efficiency, work performance, comfort, durability and serviceability.

Canopy spec

Cabin spec

TRUE ZERO TAIL SWING MINI EXCAVATOR

ViO

ViO45-6B 28.1kW **ViO55-6B** 33.4kW

SAVE TIME AND BE MORE PRODUCTIVE

ViO45-6B and ViO55-6B, born to deliver top performance

Clean diesel engine

These 2 models are powered by Yanmar TNV series diesel engines, equipped with the latest electronically controlled direct injection technologies designed for clean emission and powerful output.

ViO45-6B **4TNV88**	ViO55-6B **4TNV84T**
28.1kW / 2200rpm	**33.4kW** / 2200rpm

Fuel efficiency

Fuel efficiency has improved due to the excellently matched hydraulic system combined with the new features of Eco mode and Auto deceleration, making them the most fuel efficient excavators in their class.

Electronically controlled engine + **More efficient hydraulics**

30% better fuel economy over previous models

Eco mode is used previous models **40% down**

Eco mode

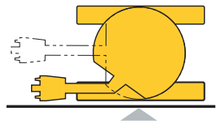
Switching to Eco mode helps reduce fuel consumption significantly.

Auto deceleration

If the operating levers have been in neutral for more than 4 seconds, the engine will automatically drop back to idle, which lowers noise, emissions and fuel consumption.

True zero tail swing

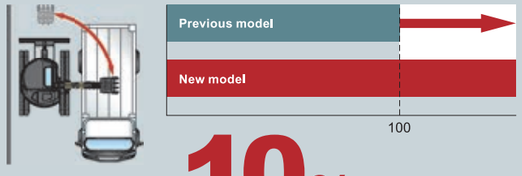
Yanmar pioneered the concept of a true zero tail swing mini excavator which will operate with no overhang on the tightest of job sites.



Productivity

The new engines, coupled with a more powerful hydraulic pump, allow these 2 models to perform smoothly and efficiently. Work performance has increased by 10%.

Amount of work per hour *standard specifications

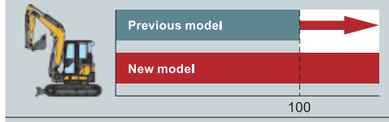


10% increase

Lifting capacity

ViO45-6B and ViO55-6B have the lifting power of a conventional type excavator, thanks to their ingenious design and excellently balanced weight distribution.

Lifting capacity over front *standard specifications



10% increase

Lifting capacity over side *standard specifications

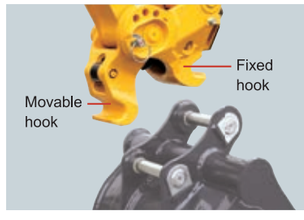
5% increase

Heat balance

The larger radiator and enhanced hydraulic oil cooling system ensure top performance regardless of ambient temperatures.

Radiator **10% increase** | **Oil cooler** **10% increase**

Yanmar original quick coupler (option)



Ensures quick change of attachments.

UNIVERSAL DESIGN (UD), COMFORT

The universal design employed to enhance operator comfort.

Powerful air conditioner with features of air recirculation and fresh air mode

Air cooling
10%
improved

Comfortable reclining seat with storage compartment

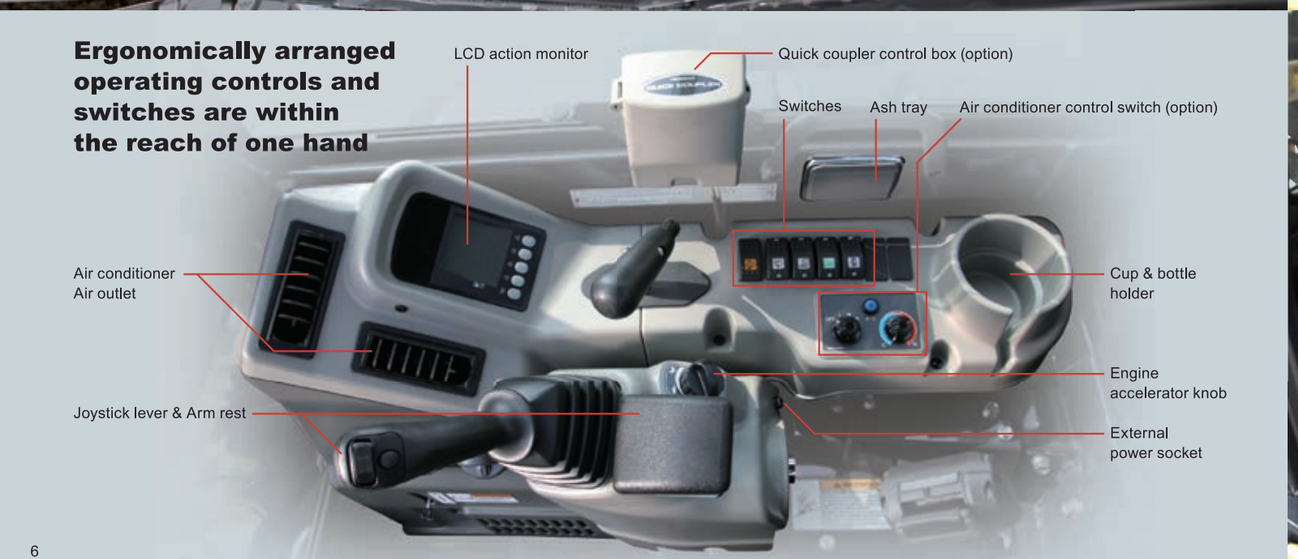
New universal grab handles

Hood handles

Door handles

Cabin light

Ergonomically arranged operating controls and switches are within the reach of one hand

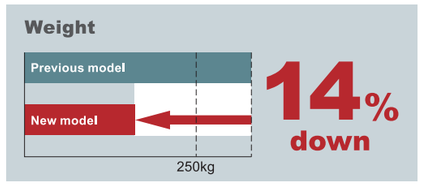


PROVEN DURABILITY AND SAFETY

Simple design and durable components for enhanced reliability and minimum running costs.

1 Cylinder guard protectors made from strong spring steel

2 Tough and lighter boom



3 Protected work light

4 Perfectly located air conditioner condenser

5 Steel bonnets ensure extra component protection

6 Strengthened bonnet hinges


Rear hood


Right hood


Right upper hood

7 Frame guard provides protection on the toughest job sites

8 Upgraded undercarriage

Width **25% size up**

A Idler / Held with double pin to prevent oil leakage.

B Track roller / New durable structure prevents dirt or mud from sticking.

Width **13% size up**

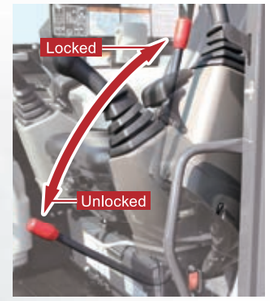
Diameter **14% size up**

C Sprocket / Durable and long lasting.

Width **29% size up**

9 Cabin & Canopy comply with ROPS and FOPS ISO standards

10 Safety lock levers



11 Emergency engine stop switch

12 Seat belt

13 Evacuation hammer (cabin spec)

14 Back mirror

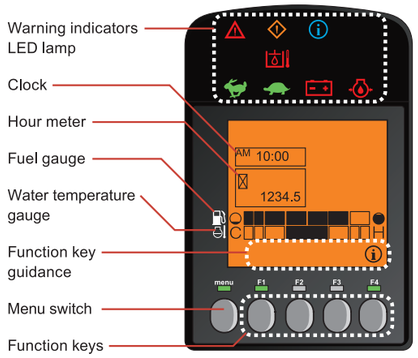
15 Operator friendly exhaust system

EASY MAINTENANCE

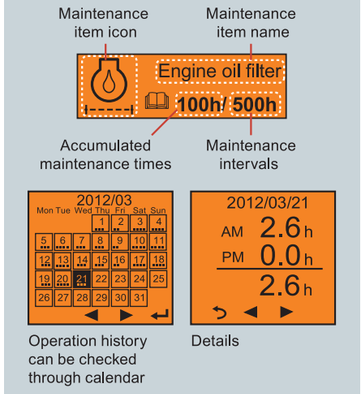
The new LCD action monitor provides various information, including machine service life and servicing alerts for smart machine maintenance.

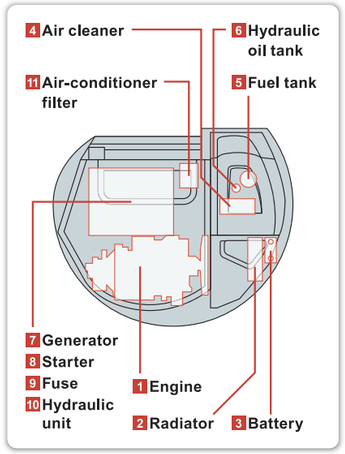
Back light large-screen LCD monitor

ViO45-6B and ViO55-6B incorporate a system that allows tracking down machine operating conditions over a span of 3 months.

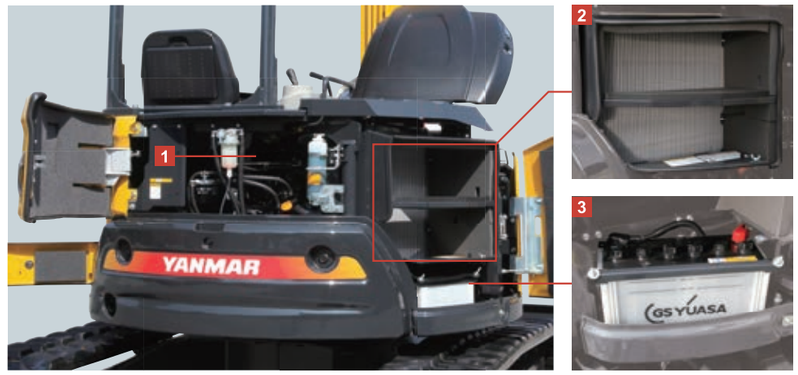


Display examples

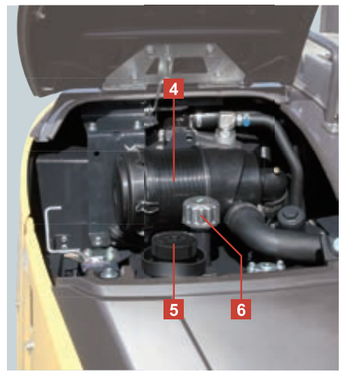




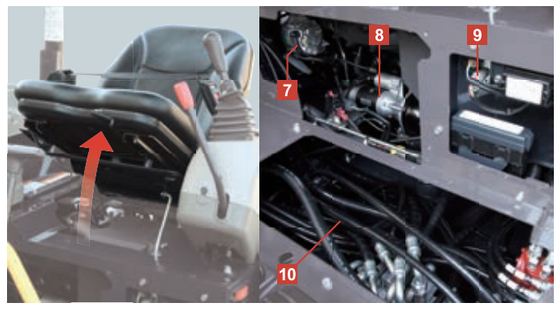
Rear hood, right hood open without tools



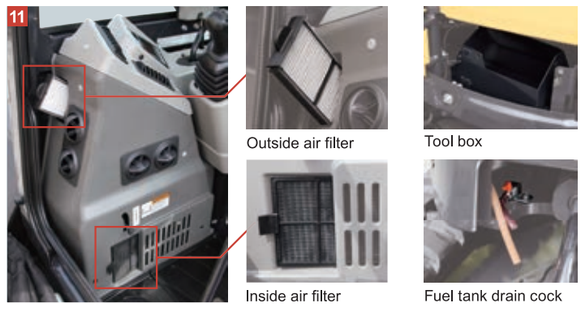
Right upper opens without tools

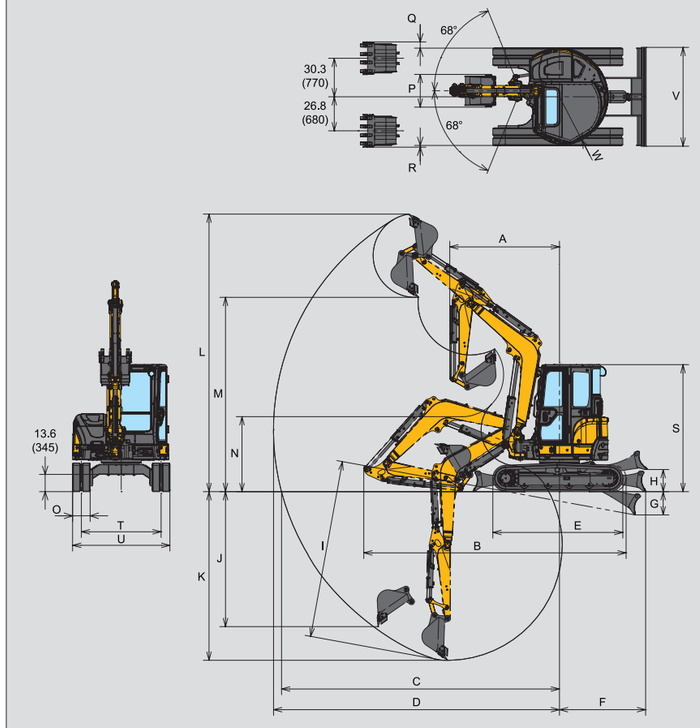


Open around the operator's seat



Easy maintenance of air conditioner





Dimensions

Unit : mm (in)

	ViO45-6B		ViO55-6B	
	Canopy spec / Cabin spec		Canopy spec / Cabin spec	
	Quick coupler	without Quick coupler	Quick coupler	without Quick coupler
A	2380 (93.7) Swing 2120 (83.5)	2190 (86.2) Swing 1950 (76.8)	2370 (93.3) Swing 2110 (83.1)	2180 (85.8) Swing 1940 (76.4)
B	5320 (209.4)	5230 (205.9)	5580 (219.7)	5510 (216.9)
C	5740 (226.0)	5540 (218.1)	6140 (241.7)	5950 (234.3)
D	5890 (231.9)	5700 (224.4)	6290 (247.6)	6100 (240.2)
E	2590 (102.0)			
F	1890 (77.4)	1720 (67.7)	1890 (77.4)	1720 (67.7)
G	540 (21.3)	465 (18.3)	540 (21.3)	465 (18.3)
H	500 (19.7)	445 (17.5)	500 (19.7)	445 (17.5)
I	3740 (147.2)	3540 (139.4)	4120 (162.2)	3920 (154.3)
J	2380 (93.7)	2690 (105.9)	2560 (100.8)	2930 (115.4)
K	3550 (139.8)	3360 (132.3)	3900 (153.5)	3710 (146.1)
L	5700 (224.4)	5530 (217.7)	6060 (238.6)	5900 (232.3)
M	3680 (144.9)	3870 (152.4)	4050 (159.4)	4240 (166.9)
N	1340 (52.8)	1500 (59.1)	1410 (55.5)	1570 (61.8)
O	350 (13.8)		400 (15.7)	
P	650 (25.6)		700 (27.6)	
Q	125 (4.9)			
R	35 (1.4)			
S	2540 (100.0)			
T	1590 (62.6)			
U	1940 (76.4)		1990 (78.3)	
V	1970 (77.6)		1970 (77.6)	
W	970 (38.2)		995 (39.2)	

Specifications

Model			ViO45-6B				ViO55-6B			
Spec			Canopy		Cabin		Canopy		Cabin	
Type			Quick coupler	without Quick coupler	Quick coupler	without Quick coupler	Quick coupler	without Quick coupler	Quick coupler	without Quick coupler
Operating weight	Rubber track	lbs (kg)	10373 (4705)	10152 (4605)	10748 (4875)	10527 (4775)	11806 (5355)	11585 (5255)	12203 (5535)	11982 (5435)
	Steel track	lbs (kg)	10659 (4835)	10439 (4735)	11034 (5005)	10814 (4905)	11872 (5385)	11651 (5285)	12269 (5565)	12048 (5465)
Engine	Type	-	Vertical four cylinder water-cooled direct injection diesel engine							
	Model	-	YANMAR 4TNV88-ZPBV				YANMAR 4TNV84T-ZMBV			
	Rated output	HP (kW) / rpm	37.7(28.1) / 2200 [Gross]				48.4 (33.4) / 2200 [Gross]			
Performance	Bucket capacity, standard	cu.ft (cu.m)	4.94 (0.14)				5.65 (0.16)			
	Bucket width, standard	in. (mm)	25.6 (650)				27.6 (700)			
	Max digging force, bucket	lbf (kN)	6497 (28.9)	8206 (36.5)	6497 (28.9)	8206 (36.5)	7464 (33.2)	9419 (41.9)	7464 (33.2)	9419 (41.9)
	Traveling speed, High / Low	Rubber track MPH (km / h)	2.9 (4.6) / 1.5 (2.4)				2.6 (4.2) / 1.4 (2.2)			
		Steel track MPH (km / h)	2.7 (4.3) / 1.3 (2.1)				2.4 (3.9) / 1.2 (2.0)			
	Swing speed	rpm	10				10			
	Boom swing angle, (L / R)	degrees	68 / 68				68 / 68			
Ground contact pressure	Rubber track	PSI (kPa)	4.25 (29.3)	4.16 (28.7)	4.41 (30.4)	4.32 (29.8)	4.24 (29.2)	4.15 (28.6)	4.38 (30.2)	4.29 (29.6)
	Steel track	PSI (kPa)	4.42 (30.5)	4.34 (29.9)	4.58 (31.6)	4.50 (31.0)	4.31 (29.7)	4.24 (29.2)	4.45 (30.7)	4.38 (30.2)
Hydraulic system	Pump capacity	GPM (L / min)	11.2 (42.5) x 2 [Variable displacement pump] 9.8 (37.0) x 1, 2.9 (10.8) x 1 [Gear pump]				12.1 (45.8) x 2 [Variable displacement pump] 9.8 (37.0) x 1, 2.9 (10.8) x 1 [Gear pump]			
	Main relief set pressure	PSI (MPa)	3553 (24.5) x 2 3133 (21.6) x 1 566 (3.9) x 1				3553 (24.5) x 2 3553 (24.5) x 1 566 (3.9) x 1			
Fuel tank capacity		Gals (L)	17.4 (66)				17.4 (66)			

Hydraulic PTO

Model	ViO45-6B			ViO55-6B		
Specification \ Output	PSI (MPa)	GPM (L / min)		PSI (MPa)	GPM (L / min)	
		2200RPM	1200RPM		2200RPM	1200RPM
Combined flow, double actions	3553 (24.5)	21.0 (79.5)	11.4 (43.3)	3553 (24.5)	21.9 (82.8)	11.9 (45.1)