प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट संख्या/No. : T-1741/2272/2023

INITIAL COMMERCIAL TEST REPORT माह/Month : June, 2023

Application Reference No. 28/2022-23/76

(यह परीक्षण रिपोर्ट 30.06.2028 तक वैध है / THIS TEST REPORT IS VALID UPTO 30.06.2028)



Make of Agricultural Tractor: Mahindra

Model : YUVO TECH+ 475 DI 4WD

Manufactured by : Mahindra & Mahindra Limited,

(Farm Equipment Sector) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur

P.O., District Chengalpattu - 603004.



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय (कृषि एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS' WELFARE

(DEPARTMENT OF AGRICULTURE & FARMERS' WELFARE)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

ट्रैक्टर नगर, बुदनी (म.प्र.) 466 445

CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE

TRACTOR NAGAR, BUDNI (M.P.) 466 445

(An ISO 9001:2015 Certified Institute)

E-mail: fmti-mp@nic.in Web site: http://www.fmttibudni.gov.in Telephone: 07564-299003

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IMPORTANT INFORMATION

The Government of India, Ministry of Agriculture and Farmers' Welfare has directed, vide a OM No. 13-17/2021-M&T(I&P) dated 28.07.2022, that since 15th August, 2022, only mandatory tests will be carried out on a tractor unless applicant has expressly requested for optional tests as well, mentioned in the above captioned OM.

In the instant case, there is no request from the applicant to carry out the optional tests hence only Mandatory Tests, as given below, have been conducted and reported in this report:-

- 1. PTO performance
- 2. Hydraulic performance
- 3. Drawbar performance
- 4. Brake performance

Month: June Test Report No.: T-1741/2272/2023 Year: 2023



GOVERNMENT OF INDIA CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE TRACTOR NAGAR, BUDNI (MADHYA PRADESH) 466445, INDIA

E-mail: fmti-mp@nic.in

Web site: http://www.fmttibudni.gov.in

Telephone: 07564-299003

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M/s. Mahindra & Mahindra Limited [C] Tractor manufacturer's name and address (Farm Equipment Sector) Mahindra Research Valley, Mahindra World City, Plot no. 41/1, Anjur P.O., District Chengalpattu - 603004. [D] Location of tractor assembly M/s. Mahindra & Mahindra Limited (Farm Equipment Sector), Hingna Road, Hingna MIDC, Nagpur- 440016 (ii) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector) Agri Business Development Center, Khatima Panipat Highway, Udham Singh Nagar, Vil. Lalpur, Tehsil-Kichha, Rudrapur - 263 153 (iii) M/s. Mahindra & Mahindra Limited (Farm Equipment Sector). Agri Development Center, Vil-Mehla Tehsil - Dudu Jaipur- Ajmer Road, Jaipur- 303 007 M/s. Mahindra & Mahindra Limited (iv) (Farm Equipment Sector), Near Bidar "T" Junction , Mahindra Nagar, Zaheerabad- 502 220 Medak District, Andhra Pradesh M/s. Mahindra & Mahindra Limited (v) (Farm Equipment Sector), Akurli Road, Kandivli (E), MUMBAI – 400 101 [C] Submitted for test by (Applicant) The Manufacturer : Selected for test by The Ministry vide OM No. 13-17/2021 - M&T (I&P) dated 28.07.2022, has allowed the applicant to submit the test sample directly to the Institute without requiring any random selection for Initial Commercial Testing. Thus, the applicant directly submitted the test sample to the Institute for test. [D] Place of running-in At manufacturer's works [D] Duration of running-in: -Engine 30 36

-Transmission

Location of test Government of India. [C]

Central Farm Machinery Training and Testing

Institute, P.O. - Tractor Nagar, BUDNI - 466445 (M.P.), INDIA

1. SPECIFICATIONS OF TRACTOR

1.1 Identification: 1.1.1 Denomination

[C] Make of tractor Mahindra

YUVO TECH+ 475 DI 4WD [C] Model (trade name)

Four Wheel Drive, Standard Agricultural [C] Type

Tractor.

Month & year of manufacture 09/22 [D] Country of origin India

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1.1.2 Numbers:

[D] 1st Serial No. or prototype : MBNPFAJVFMNJ00001 [C] Serial No. : MBNPFAJVFNNF00041

1.2 Engine:

[D] Manufacturer's address : Mahindra & Mahindra Limited

(Farm Equipment Sector),

(i) Akurli Road, Kandivali (E), Mumbai -

400101

(ii) MIDC, Hingna Road, Nagpur – 440028

(iii) Khatima Panipat Highway, Rudrapur,

Udhamsinghnagar, 263153

(iv) Jaipur Ajmer Road, Jaipur – 303007 (v) Near Bidar "t" junction, Mahindra Nagar,

Zaheerabad – 502220

(vi) Mahindra Research Valley, Mahindra World City, Plot No.41/1, Anjur P.O.,

Kanchipuram District, Chengalpattu -

603004

[C] Make : Mahindra

[C] Model : MTDHI30NA044B3A

[C] Type : Four stroke, naturally aspirated, liquid cooled,

direct injection, diesel engine.

[C] Serial No. : NNF2JLE0020

1.2.1 Cylinders:

[C] Number/disposition : Four, vertical, in-line

[D] Bore / Stroke, (mm)
 [D] Capacity, cm³
 [D] Compression ratio
 [D] Arrangement of valves
 [D] Stroke, (mm)
 [D] 2979
 [D] 20.0 (±1): 1
 [D] Overhead, i

[D] Arrangement of valves : Overhead, inline[D] Cylinder liners : Wet, replaceable

[D] Type of combustion chamber : Re-entrant cavity on piston crown

1.2.2 Supercharging : Not Available

1.2.3 Fuel system:

[C] Fuel feed system : Gravity and force feed

Filter(s):

[C] Make : Bosch

[C] Model : F 002 H25 037 [C] Type : Paper element

[C] Number(s) : One [D] Capacity of fuel tank, (I) : 53.4

Injection pump:

[C] Make : Bosch

[C] Model : F 002 A2Z A67, PES4AB85D320RS2000

[C] Type : Inline, plunger [C] Serial Number : 27729318

Manufacturer's production setting of injection pump:

[C] Flow rate (rated engine speed & full : 7.25 ± 0.40

load), (kg/h)

[D] Timing : 6.0 ± 1 degree before TDC

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6. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

7.1 On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for Qualifying Minimum Performance criteria as per Clause-4 (Table-1) of IS: 12207-2022 for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

S. No.		naracteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2022	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the require-m ents (Yes/No)
1		2	3	4	5	6	7
	date	d 28 th of July, 2 th		Ministry's Office Memorandur	n No. 13-17	7/2021-M8	kT (I&P)
6.1.1	PTO	Performance:					
a)	unde (kW)	,	Evaluative	Declared value to be achieved with a tolerance of: ±5% for PTO power and or engine power >26 kW. ±10% for PTO power and or engine ≤ 26 kW.	30.2 (D)	30.5	Yes
b)	Powe engir	er at rated ne speed, (kW)	Non Evaluative	-do-	30.2 (D)	30.5	Yes
c)	Spec cons corre	cific fuel umption esponding to mum power,	Evaluative	Should not be more than 10% of declared value	240 (D)	250	Yes
d)		mum equivalent kshaft torque,		± 8%	185 (D)	176	Yes
e)	Back perce		Evaluative	Should be minimum 12 percent	12 (D) 12 (R)	20.9	Yes
f)	Maxi	mum operating t	emperature,	(°C):			
	1)	Engine oil	Evaluative	The declared value should not exceed the <i>Max</i> value specified by the oil company and the observed value under natural ambient/high ambient condition should not exceed the declaration	130 (D)	117	Yes
	2)	Coolant	Evaluative	Observed value should not exceed the declared value or boiling point of coolant at radiator cap pressure whichever is lower. The boiling point of the coolant at radiator pressure shall be provided by the applicant.	110(D)	101	Yes
g)	Engine oil consumption, (g/kWh)		Evaluative	Not exceeding 1% of SFC at Max power under natural ambient condition. The value would be based on the test conducted under natural ambient condition	2.50 Maximum (R)	0.21	Yes
h)	Smoke level, m ⁻¹		Evaluative	Max Smoke level shall be reported out of 6 readings tested as per IS 12062 and observed value should be well within the required limits.	3.25 per meter Maximum (R)	0.31	Yes

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1		2	3	4	5	6	7
6.1.2	Drav	bar performance	:			<u> </u>	
a)	balla to 1 slip,		Non- Evaluative	Minimum 70% of static mass of tractor with ballast.	18 (D)	*	*
b)			Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	14.28 (D) 14.50 (R)	18.71	Yes
c)	powe	mum drawbar er without ballast/ standard ballast,	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO power as referred in SI No. i) a) of PTO	24.16 (D)		
				performance in case of light weight tractors having ≤1500 kg total static mass of tractor Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	24.4 (R)	25.2	Yes
d)	air /heat Maxi powe or balla	ractors fitted with conditioned red cabin: mum drawbar er without ballast, with standard st as the case be, kW	Evaluative	Min 70%of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1 500 Kg.	Not fitted	Not fitted	Not appli- cable
е)	Maxi trans temp	mum mission oil erature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	120 (D)	86	Yes
	*Applicant vide letter no. FD/BVH/ICT/YUVOTECH+4754wd/23-24/06 dated 01.05.2023 has						
	requested not to conduct the ballasted drawbar performance & ten-hour drawbar tes				ar test		
	which was allowed as per the additional guidelines for testing of tractors as per new					r new	
	regir	me of testing of	tractors vid	e a OM No. 13-32/2023-M&T(I&	ֆP) (FTS-	125476)	dated
	16.0	5.2023. According	ly, only unba	allasted drawbar performance to	est was co	onducte	d.
6.1.3	Pow	er lift and hydraul	lic pump per	formance:			
a)				the range of lift, (kN):			
	1)	At hitch points	Evaluative	Should not be less than 90% of declared value.	16.67 (D)	16.79	Yes
	2)	With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft.	13.24 (D) 7.18(R) Minimum	13.06	Yes
b)	heigh appli after inter	mum drop in the nt of the point of cation of the force each 5 minutes val for a total tion of 30 Minutes,	Non- Evaluative	The observed value should not exceed 50 mm	50 (D) Maximum	05	Yes

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1	2	3	4	5 6	7
6.1.4	Brake performance at		*		
a)	Maximum stopping dis		ce, equal to or less than 600 N	on brake pedal v	vith road
	ballast, (m):	T=		T	1
	1) Cold brake	Evaluative	10	10 (R) 6.21	Yes
b)	2) Hot brake Whether parking brake	Evaluative	10	10 (R) 6.40	Yes
b)	is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever	Evaluative	Yes / No	Yes Yes	Yes
6.1.5	OPTIONAL TESTS: As optional tests was co		nt has not applied for any optio	nal tests, therefo	ore no
6.1.6	Safety features:				
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes [As per IS 12239 (Part2)]	Meets the requirement	Yes
b)	Lighting arrangement	Evaluative	As per CMVR	Meets the requirement	Yes
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)	Does not meet the requirement	No
d)	Technical requirements for PTO shaft	Non Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)	Meets the requirement	Yes
е)	Dimensions of three-point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-1N) (As amended from time to time)	Does not meet the requirement	No
f)	Specifications of linkage drawbar	Non Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)	Meets the requirement	Yes
g)	Specifications of Swinging drawbar (wherever fitted)	Non Evaluative	Should meet the requirement of IS: 12362 (Part-3) (As amended from time to time)	Not provided	Not appli- cable
h)	Audible warning signal on tractor	Evaluative	If tractor travel speed in reverse gear exceeds 20 kmph, an audible warning signal on tractor shall get activated. A sticker to the effect that "operating the tractor beyond 20 kmph speed in reverse gear is not safe" should be prominently displayed.	Not provided	Not appli- cable
6.1.7	Labelling of tractors				
	1) Make	Evaluative	Should conform to the	Mahindra	Yes
	2) Model	Evaluative	requirements of CMVR along-with declared value of	YUVO TECH+ 475 DI 4WD	Yes
	3) Month & Year of manufacture	Evaluative	PTO in kW, Specific fuel consumption (SFC)	09 & 22	Yes
	4) Engine number	Evaluative	corresponding to maximum power in g/kWh and year of	NMF2JLE002 0	Yes
	5) Chassis number	Evaluative	manufacture in numerical form MM YY	MBNPFAJVF NNF00041	Yes
	6) Maximum PTO power, (kW)	Evaluative	Digit 01-12 in box No. 1 for MM will represent the month and	30.2	Yes
	7) Specific fuel consumption, g/kWh	Evaluative	next two digit in the box No. 2 for YY will represent the year of manufacturing	240	Yes

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		3	T 3		•	
6.1.8	Literature (Subm					
(a)	Operator manual	Evaluative	The printed literature in	Provided	Yes	
(b)	Parts Catalogue	Evaluative	booklet form should be	Provided	Yes	
(c)	Workshop/	Evaluative	provided as per IS 8132 and	Provided	Yes	
()	Service manual		should submit along with the			
			test sample.			
6.1.9	Fitment of Roll O					
	For tractor having	Evaluative	ROPS should meet the			
	more than 1150		requirement of IS:1182 or	Not fitted	Not	
	mm rear track		OECD code or equivalent		applicable	
2 1 12	width		International Standard			
6.1.10	Standard	Evaluative	Trailer hitch, front tow hook,	D. Clark		
	Accessories		linkage drawbar should be	Provided	Yes	
C 4 44	Accessories	Non	provided with tractor			
6.1.11	Accessories		Ballast weight, if fitted, should	Not fitted	Not	
	(optional)	Evaluative	meet the requirement of CMVR	Not fitted	applicable	
					- `	
6.2			DEFECTS (As per clause 5.0			
S.	Category of	Category	Requirements	As observed	Whether meets the	
No.	break-downs	(Evaluative /	as per IS: 12207-2022		Require-ments	
		Non			(Yes/No)	
		Evaluative)				
1.	Critical	Evaluative	There is no 'critical	None	Yes	
			breakdown' during the course			
	Maian	Frankratica	of testing	Nana		
2.	Major	Evaluative	There are not more than2	None	Yes	
			major break downs and neither of them should be of			
			repetitive nature.			
3.	Minor	Evaluative	There are not more than 5	None	Yes	
0.	IVIII IOI	Lvaidativo	minor defects during the test	140110	103	
			and neither of them should of			
			repetitive nature.			
	Total	Evaluative	In no case, the total number	None	Yes	
4.	breakdowns		of break downs should			
			exceed five that is, (2major +			
			3 minor) or (1 major + 4 minor)			
			or 5 minor breakdowns.			
6.3	Conformity wi	ith following IS:				
i)	Guidelines for		wer and specific fuel consum		Conforms	
	labeling of	O	ors (First revision) [IS:102]	73 -1987		
	(Reaffirmed Ye					
ii)			ited power take-off - Types 1	l, 2 and 3 :	Conforms	
			eaffirmed Year 2019)]		_	
iii)			ear mounted three-point linka		Does not	
		2, 3 & 4 (fourth revis	sion) [IS:4468(Part-I) – 1997 (R	Reaffirmed	conform	
	in 2022)]		1: 1 / 10 / 10050 / 1000 / 1		o ,	
iv)	Drawbar for agricultural tractors – Link type [IS 12953:1990 (Reaffirmed : Conforms					
>	Year 2022)] Agricultural tractors- Operator's seat technical requirement [IS12343 - : Does not					
v)	-	ictors- Operator's	seat technical requirement [S12343 - :	Does not	
	-	2021] conform				
vi)		-	operator of agricultural tractor	ors:Part 1 :	Does not	
			on):[IS 12239 (Part 1) - 2018]		conform	
vii)			ulture and forestry – Technical		Does not	
			(first revision) (IS 12239 (Part	t 2) 1999)	conform	
	(Reaffirmed Ye				_	
viii)			ation of operator controls on a	gricultural :	Does not	
	tractors and machinery [IS: 8133 - 2021] conform					
1				_		

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Tractors and machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays Part2 Symbols for agricultural tractors and machinery [IS: 6283(Part-1) - 2006 (Reaffirmed Year 2019)] and IS: 6283 (Part-2) - 2007 (Reaffirmed Year 2019)]

Does not conform

- x) Agricultural Tractors and Machinery-Lighting device for travel on public : Conforms roads (IS:14683-1999) (Reaffirmed Year 2019)]
- 6.4 Salient Observations:

6.4.1 PTO performance:

Applicant vide letter no. FD/BVH/ICT/YUVOTECH+4754wd/23-24/06 dated 01.05.2023 has recommended that tractor operating range is from 1100 rpm to rated engine rpm under full load condition. Hence during PTO performance test, varying speed test was conducted upto 1100 rpm of engine only under natural and high ambient condition.

6.4.2 Drawbar performance test:

Applicant vide letter no. FD/BVH/ICT/YUVOTECH+4754wd/23-24/06 dated 01.05.2023 has recommended that tractor operating range is from 1100 rpm to rated engine rpm under full load condition. Hence Drawbar performance test was conducted upto 1100 rpm of engine only.

6.4.3 Operator's seat:

The following parameters does not meet the requirement of IS: 12343-2021.

- Provision for adjustment of driver's mass has been specified as 50 to 120 kg against the requirement of 40 to 100 kg.
- ii) Vertical distance from SIP to centre of steering control wheel has been measured as 225 mm against the requirement of 265 to 385 mm.
- iii) Vertical distance from SIP to centre of accelerator pedal has been measured as 475 mm against the requirement of 230 to 460 mm.
- iv) Vertical distance of SIP from foot rest has been measured as 535 mm against the requirement of 450 to 520 mm.
- v) Upward position of silencer outlet with respect to SIP has been measured as 790 mm against the minimum requirement of 800 mm.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.4 Operator's work place:

The following parameters does not meet the requirement of IS: 12239 (Part-I) 2018.

- i) Vertical retainers on both sides of clutch pedal are not provided.
- ii) Spark arresting device has not been provided in the exhaust system.

Therefore, all of the above should be looked into for necessary corrective action.

6.4.5 Three point linkage:

The dimensions viz. diameter of hitch pin hole of upper hitch points, diameter of hitch pin hole & width of ball of lower hitch points, lateral distance from lower hitch point to centre line of tractor and lateral movement of lower hitch points does not meet the requirements of IS:4468 (Part-I) – 1997. This should be looked into for corrective action.

6.4.6 PTO master shield:

PTO master shield has not been provided on tractor. This should be looked into for necessary corrective action.

6.5 Specification of Tractor:

Discrepancies in the specification between the Specification sheet and Operator's manual are as under:

S. No.	Description	As per Specification Sheet	As per Operator's manual
a)	Coolant as	BIL MT-92	Mahindra M-Star Coolz Plus or coolan
	recommended		conforming to JIS K-2234 (P. No. 17-1)
b)	Transmission oil	TRACT ELF MM/IOCL	Servo M-TRAC 30/M-Star genuine OIB
			oil or Servo MTRAC 30 (P. No. 17-1)
c)	Transmission oil	First change after 1200	First change after 1300 hours of
	change period	hours of operation and	operation and subsequently after every
		subsequently after every	1200 hours of operation. (P. No. 18-2)
		1200 hours of operation.	,

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6.6 Maintenance / Service Problems:

No noticeable maintenance or service problem was observed during the test.

6.7 Recommendation with regard to safety on tractor:

- Fuel shutoff knob does not remain in stop position as per the requirement of IS: 8133-2021.
- Identification of hand controls by colour has not been provided as per the requirement as laid down in Table – 5 of IS: 8133-2021.
- iii) The hand accelerator lever, when moved away from the operator (i.e. forward) decreases the engine speed, which does not meet the requirement as laid down in Table 1 of IS: 8133-2021.
- iv) The working clearance between draft control lever and RHS fender has been measured as 30 mm against the minimum requirement of 70 mm.
- v) The working clearance between PTO lever and LHS fender has been measured as 30 mm against the minimum requirement of 70 mm.

Above parameters should be looked into for necessary corrective action.

6.8 Adequacy of Literature supplied with machine:

- 6.8.1 The following literatures were supplied with the test tractor for reference during the test: -
 - a) Operator Manual for "Mahindra YUVO TECH+ 475 DI 4WD" tractor model.
 - Parts catalogue for "Mahindra YUVO TECH+ 475 DI 4WD" tractor model.
 - Service manual for "Mahindra YUVO TECH+ 475 DI 4WD" tractor model.
- 6.8.2 The operator manual may be brought out for the guidance of users and service personnel as per IS: 8132-1999 incorporating, inter alia, the following:
 - Recommended ballast masses for different operations.

TEST CARRIED OUT AT C.F.M.T. & T.I., BUDNI (M.P.), INDIA

TESTING AUTHORITY

C. V. CHIMOTE TEST ENGINEER	Manusuman
A. K. UPADHYAY DIRECTOR (I/C)	M2

Draft Test Report compiled by Pratyush Satya, Senior Technical Assistant.

7. APPLICANT'S COMMENTS

Para no.	Our reference	Applicant comments
7.1	6.5	Parameters in product literature will be studied & necessary action will be initiated.

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ANNEXURE-I

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	Applicant has declared it to be conducted on their work place.
2.	PTO performance test	11.8
3.	Power lift and hydraulic pump performance test	1.5
4.	Drawbar performance test	4.3
5.	Brake performance test	1.0
6.	Nominal speed test	1.6
B.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	1.3
	TOTAL:	21.5