

**O`ZBEKISTON RESPUBLIKASI QISHLOQ VA SUV XO`JALIGI
VAZIRLIGI**

ANDIJON QISHLOQ XO`JALIK INSTITUTI

**«QISHLOQ XO`JALIGINI MEXANIZATSIYALASH»
FAKULTETI**

**«Qishloq xo`jalik texnikalari, foydalanish va ta`mirlash»
kafedrası**

4-bosqich 1-guruh talabasi

VOHIDOV VOHIDJONNING

**«Mashina traktor parkidan foydalanish»
fanidan**

KURS LOYIXASI

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Andijon-2014 yil

Kurs loyixasi

Varyant N-22

1. Ekin maydoni $F=1600$ ga

2. Dala uzunligi $L=1200$ m

3. Bitta kartaning o`rtacha maydoni $F_1=30$ ga

4. Rejalashtirilgan paxta hosildorligi $h=38$ s/ga

К И Р И Ш

Ватанимизнинг қишлоқ хўжалигини, жумладан пахтачиликни ривожлантириш бўйича амалга ошираётган ва амалга оширилиши планлаштирилаётган тадбирлари, қишлоқ хўжалик ходимлари олдида турган вазифалар ва бу вазифаларнинг бажарилиши, машина-трактор паркларидан фойдаланишнинг умумий ҳолати қисқача ёритилади.

Талабалар пахта, буғдой ва маккажўхори етиштириш ва йиғиштириб олишнинг технологик карталарини ўрганиш ва тузиш, машиналар тизимини танлаш ва ундан фойдаланиш, машина-трактор паркининг таркибини аниқлаш, лойиханинг техник иқтисодий кўрсаткичларини ҳисоблаш учун курс лойихасида қўйидаги масалаларни ҳал қилиш кўзда тутилади:

1. Пахта етиштириш ва йиғиштириб олишнинг технологик картасини асослаш ва тузиш.

2. Битта операцияни технологик картани тўлдириш учун ҳамма пунктлар бўйича тўла ҳисоблаб чиқиш.

3. Машина-трактор паркининг рациональ составини аниқлаш мақсадида машиналардан фойдаланиш графигини чизиш.

4. Чопиқ тракторлари учун ёнилғи сарфлари, техник парваришлар ва ремонтлар графигини чизиш.

5. Лойиханинг техник-иқтисодий кўрсаткичларини ҳисоблаш.

Haqiqiy birliklardagi ish hajmini hisoblash (4-ustun)

(bu yerda ,F-variant bo`yicha yer maydoni)

$$F=1600\text{ga} \quad m=2\dots 3 \text{ t/ga}$$

Chorvachilik fermalarida organik o'g'itlarni transport aravalariga yuklash, (gektariga 2-3 t hisobida)

$$U_1 = F \cdot m = 1600 \cdot 2 = 3200 \text{ t}$$

Organik o'g'itlarni dalaga 5 - 6 kmga tashish

$$U_2 = U_1 \cdot 5 = 3200 \cdot 5 = 16000 \text{ tkm}$$

Irrigatsiya shahobchalarini tozlash ($15 \text{ m}^3 / \text{ga}$)

$$U_3 = F \cdot 15 = 1600 \cdot 15 = 24000 \text{ m}^3$$

Vaqtincha sug'orish shahobchalarini tekislash 0,50 m/ga

$$U_4 = F \cdot 0.05 = 1600 \cdot 0.05 = 80 \text{ km}$$

Organik o'g'itlarni dalaga sochish

$$U_5 = F = 1600 \text{ ga}$$

Mineral o'g'itlarni yuklash (05t / ga)

$$U_6 = F \cdot 0.5 = 800 \text{ t}$$

Mineral o'g'itlarni dalaga tashish

$$U_7 = U_6 \cdot 5 = 800 \cdot 5 = 4000 \text{ m/km}$$

Mineral o'g'itlarni dalaga solish

$$U_8 = F = 1600 \text{ ga}$$

35-40 sm chuqurlikda dalani 2 yarusli haydash

$$U_9 = F = 1600 \text{ ga}$$

Dalani planirovka qilish

$$U_{10} = F \cdot 0.2 = 320 \text{ ga}$$

Ikki izli erta bahorgi baronalash

$$U_{11} = F = 1600 \text{ ga}$$

Dalani ekishdan oldingi diskalash va baronalash (Umumiy maydonga nisbatan 40%)

$$U_{12} = F \cdot 0.3 = 1600 \cdot 0.3 = 480 \text{ ga}$$

Ekishdan oldingi chizelash (Umumiy maydonga nisbatan 40%)

$$U_{13} = F \cdot 0.3 = 1500 \cdot 0.3 = 480 \text{ ga}$$

Mola qilish

$$U_{14} = F = 1600 \text{ ga}$$

Dalaga chigit , mineral o'g'it va gerbitsit tashish uchun yuklash (1 gektariga 80 kg chigit, 150 kg superfosfat, 120 kg amiak selitrasi va 200 kg suv)

$$U_{15} = F \cdot 0.55 = 1600 \cdot 0.55 = 880 \text{ kg/g}$$

Dalaga o'g'it, chigit va gerbitsitni tashish

$$U_{16} = U_{15} \cdot 5 = 880 \cdot 5 = 4400 \text{ km}$$

Chigitni o'g'it va gerbitsit solish bilan birga 60 sm kenglikda qatorlab ekish,

$$U_{17}=F=1600 \text{ ga}$$

Vaqtincha sug'orish shahobchalarini ochish 50 m/ga

$$U_{18}=F*0.05=1600*0.05=80 \text{ km}$$

Qatqaloqni yumshatish (Umumiy maydonga nisbatan 30%)

$$U_{19}=F*0.3=1600*0.3=480 \text{ ga}$$

Birinchi uzunasiga ishlov berish

$$U_{20}=F=1600 \text{ ga}$$

Organik o'g'itlarni yuklash 2-3 t/ga

$$U_{21}=F*2=1600*2=3200 \text{ t}$$

G'o'za zarakunandalariga va kasalliklariga qarshi kurash (Umumiy maydonga nisbatan 60%)

$$U_{22}=F*0.3=1600*0.3=480 \text{ ga}$$

Organik o'g'itlarni 5-6 km masofaga tashish

$$U_{23} =U_{21}*5=3200*5=16000 \text{ t/km}$$

Mineral o'g'itlarni yuklash 1025 kg/ ga

$$U_{24}=F*1.025=1600*1.025=1640 \text{ t}$$

Mineral o'g'itlarni 5-6 km masofaga tashish

$$U_{25}= U_{24}*5=1640*5=8200 \text{ tkm}$$

Egat olish bilan birga birinchi oziqlantirish

$$U_{26}=F=1600 \text{ ga}$$

O'qariqni ochish va tekislash (100 m/ga)

$$U_{27}=F*0.1=1600*0.1=160 \text{ km}$$

Ikkinchi uzunasiga ishlov berish

$$U_{28}= F=1600 \text{ ga}$$

Egat olish bilan birga ikkinchi oziqlantirish

$$U_{29}=F=1600 \text{ ga}$$

Uchinchi ishlov berish

$$U_{30}=F=1600 \text{ ga}$$

Egat olish bilan birga uchinchi oziqlantirish

$$U_{31}= F=1600 \text{ ga}$$

To'rtinchi uzunasiga ishlov berish

$$U_{32}=F=1600 \text{ ga}$$

To'rtinchi sug'orish uchun egat olish

$$U_{33}= F=1600 \text{ ga}$$

Beshinchi uzunasiga ishlov berish

$$U_{34}= F=1600 \text{ ga}$$

Beshinchi sug'orish uchun egat olish

$$U_{35}=F=1600 \text{ ga}$$

Yerda ishlovchi vositalar yordamida g'o'zani defolyatsiya qilish

$$U_{36}=F*0.5=1600*0.5=800 \text{ ga}$$

Desikatsiya qilish

$$U_{37.1}=F_{bm}=14 \text{ ga}$$

Paxtani terish

$$U_{37.2}=F_{bm}=14 \text{ ga}$$

G'o'za tuplarini yulish

$$U_{37.3}=F_{bm}=14 \text{ ga}$$

G'o'zapoyani tashish (2,5,-3 t/ga)

$$U_{37.4}=F_{bm}*3*3=14*3*3=42 \text{ tkm}$$

Burilish joylarini tekislash

$$U_{37.5}=F_{bm}=14 \text{ ga}$$

Birinchi qo'lda terilgan paxtani yuklash

$$U_{38}=F*0.5*h*0.3=1600*0.5*38*0.3=912 \text{ t}$$

Birinchi qo'lda terilgan paxtani tayyorlov punkitiga tashish (5-6 km masofaga)

$$U_{39}=U_{38}*5=912*5=4560 \text{ tkm}$$

Paxtani birinchi mashinada terish

$$U_{40}=F*0.5- F_{bm}=1600*0.5-14=786 \text{ ga}$$

Mashinada terilgan paxtani tashish

$$U_{41}=U_{40}*h*0.9*5=786*38*0.9*5=4480 \text{ km}$$

Ikkinchi qo'lda terilgan paxtani yuklash

$$U_{42}=F*0.5*h*0.20=1600*0.5*38*0.20=608 \text{ t}$$

Ikkinchi qo'lda terilgan paxtani yuklash

$$U_{43}=U_{42}*5=608*5=3040 \text{ tkm}$$

Paxtani ikkinchi mashinada terish

$$U_{44}=U_{40}=786 \text{ ga}$$

Mashinada terilgan paxtani tashish

$$U_{45}=U_{40}*h*0.1*5=786*38*0.1*5=1493 \text{ km}$$

Uchinchi qo'lda terilgan paxtani yuklash

$$U_{46}=F*0.5*h*0.1*5=1600*0.5*38*0.1*5=608 \text{ tkm}$$

Uchinchi qo'lda terilgan paxtani tashish

$$U_{47}=U_{46}*5=608*5=3040 \text{ tkm}$$

G'o'zapoyani yulish

$$U_{48}=F-F_{bm}=1600-14=1586 \text{ tkm}$$

Yulingan g'o'zapoyani yuklash (2,5-3 t/ga)

$$U_{49}=U_{48}*3=1586*3=4758 \text{ t}$$

G'o'zapoyani tashish (3-4kmga)

$$U_{50}=U_{49}*3=4758*3=14274 \text{ tk}$$

Shartli etalon gektarlardagi ish hajmi:

$$U_{sh}=U*K_n \quad \text{sh.et.ga}$$

$$U_{sh1}=U_1*K_n =3200*0.03=96 \quad \text{sh.et.ga}$$

$$U_{sh2}=16000*0.05=800 \quad \text{sh.et.ga}$$

$$U_{sh3}=24000*0.28=6720 \quad \text{sh.et.ga}$$

$$U_{sh4}=80*0.3=24 \quad \text{sh.et.ga}$$

$$U_{sh5}=1600*0.22=352 \quad \text{sh.et.ga}$$

$$U_{sh6}=800*0.03=24 \quad \text{sh.et.ga}$$

$$U_{sh7}=4000*0.05=200 \quad \text{sh.et.ga}$$

$$U_{sh8}=1600*0.29=464 \quad \text{sh.et.ga}$$

$$U_{sh9}=1600*2.24=3904 \quad \text{sh.et.ga}$$

$$U_{sh10}=320*0.44=140.8 \quad \text{sh.et.ga}$$

$$U_{sh11}=3200*0.2=640 \quad \text{sh.et.ga}$$

$$U_{sh12}=640*0.54=345.6 \quad \text{sh.et.ga}$$

$$U_{sh13}=640*0.7=448 \quad \text{sh.et.ga}$$

$$U_{sh14}=1600*0.46=736 \quad \text{sh.et.ga}$$

$$U_{sh15}=880*0.05=44 \quad \text{sh.et.ga}$$

$$U_{sh16}=4400*0.06=264 \quad \text{sh.et.ga}$$

$$U_{sh17}=1600*0.43=688 \quad \text{sh.et.ga}$$

$$U_{sh18}=80*0.3=24 \quad \text{sh.et.ga}$$

$$U_{sh19}=0*0.41=0 \quad \text{sh.et.ga}$$

$$U_{sh20}=1600*0.5=800 \quad \text{sh.et.ga}$$

$$U_{sh21}=3200*0.03=96 \quad \text{sh.et.ga}$$

$$U_{sh22}=480*0.45=216 \quad \text{sh.et.ga}$$

$$U_{sh23}=16000*0.05=800 \quad \text{sh.et.ga}$$

$$U_{sh24}=8200*0.05=410 \quad \text{sh.et.ga}$$

$$U_{sh25}=1600*0.06=96 \quad \text{sh.et.ga}$$

$$U_{sh26}=1600*0.4=640 \quad \text{sh.et.ga}$$

$$U_{sh27}=160*0.3=48 \quad \text{sh.et.ga}$$

$$U_{sh28}=1600*0.42=632 \quad \text{sh.et.ga}$$

$U_{sh29} = 1600 * 0.42 = 632$ sh.et.ga
 $U_{sh30} = 1600 * 0.42 = 632$ sh.et.ga
 $U_{sh31} = 1600 * 0.40 = 640$ sh.et.ga
 $U_{sh32} = 1600 * 0.53 = 848$ sh.et.ga
 $U_{sh33} = 1600 * 0.40 = 640$ sh.et.ga
 $U_{sh34} = 1600 * 0.59 = 944$ sh.et.ga
 $U_{sh35} = 1600 * 0.40 = 640$ sh.et.ga
 $U_{sh36} = 800 * 0.30 = 240$ sh.et.ga
 $U_{sh37.1} = 13 * 0.70 = 9.1$ sh.et.ga
 $U_{sh37.2} = 14 * 1.01 = 14.14$ sh.et.ga
 $U_{sh37.3} = 14 * 0.85 = 11.9$ sh.et.ga
 $U_{sh37.4} = 42 * 0.06 = 2.52$ sh.et.ga
 $U_{sh37.5} = 14 * 1.02 = 14.28$ sh.et.ga
 $U_{sh38} = 912 * 0.05 = 45.6$ sh.et.ga
 $U_{sh39} = 4560 * 0.06 = 273.6$ sh.et.ga
 $U_{sh40} = 786 * 0.01 = 7.86$ sh.et.ga
 $U_{sh41} = 4480 * 0.06 = 268.8$ sh.et.ga
 $U_{sh42} = 608 * 0.05 = 30.4$ sh.et.ga
 $U_{sh43} = 3040 * 0.06 = 182.4$ sh.et.ga
 $U_{sh44} = 786 * 0.96 = 754.5$ sh.et.ga
 $U_{sh45} = 1493 * 0.06 = 89.5$ sh.et.ga
 $U_{sh46} = 4480 * 0.05 = 224$ sh.et.ga
 $U_{sh47} = 3040 * 0.06 = 182.4$ sh.et.ga
 $U_{sh48} = 1586 * 0.43 = 681.9$ sh.et.ga
 $U_{sh49} = 4758 * 0.06 = 285.4$ sh.et.ga
 $U_{sh50} = 14274 * 0.06 = 856.4$ sh.et.ga

Bir smenilik ish umumi quyidagi fo'rmuladan foydalanamiz

14-ustun topish uchun 7soat 13 ustunga ko'paytiramiz

$W_{sm}=T_{sm} * W_{sm}$	$T_{sm}=7soat$	W_s-13 ustun
1. $W_{sm}=7 * 3.7=25.9$ ga/sm		28. $W_{sm}=7 * 0.95=6.6$ ga/sm
2. $W_{sm}=7 * 25=175$ ga/sm		29. $W_{sm}=7 * 0.95=6.6$ ga/sm
3. $W_{sm}=7 * 30=210$ ga/sm		30. $W_{sm}=7 * 1.05=10.5$ ga/sm
4. $W_{sm}=7 * 2=14$ ga/sm		31. $W_{sm}=7 * 1.1=7.7$ ga/sm
5. $W_{sm}=7 * 1.5=10.5$ ga/sm		32. $W_{sm}=7 * 1.15=8.05$ ga/sm
6. $W_{sm}=7 * 8=56$ ga/sm		33. $W_{sm}=7 * 1.1=7.7$ ga/sm
7. $W_{sm}=7 * 2.5=17.5$ ga/sm		34. $W_{sm}=7 * 0.99=6.9$ ga/sm
8. $W_{sm}=7 * 1.5=10.5$ g ga/sm a/sm		35. $W_{sm}=7 * 0.99=6.9$ ga/sm
9. $W_{sm}=7 * 0.55=3.8$ ga/sm		36. $W_{sm}=7 * 4.5=31.5$ ga/sm
10. $W_{sm}=7 * 1.5=10.5$ ga/sm		37.1. $W_{sm}=7 * 2.2=15.9$ ga/sm
11. $W_{sm}=7 * 6.6=46.2$ ga/sm		37.2. $W_{sm}=7 * 1.2=8.4$ ga/sm
12. $W_{sm}=7 * 1.6=11.2$ ga/sm		37.3. $W_{sm}=7 * 1=7$ ga/sm
13. $W_{sm}=7 * 1=7$ ga/sm		37.4. $W_{sm}=7 * 25=175$ ga/sm
14. $W_{sm}=7 * 2.8=19.6$ ga/sm		37.5. $W_{sm}=7 * 1=7$ ga/sm
15. $W_{sm}=7 * 5=35$ ga/sm		38. $W_{sm}=7 * 5=35$ ga/sm
16. $W_{sm}=7 * 20=140$ ga/sm		39. $W_{sm}=7 * 20=140$ ga/sm
17. $W_{sm}=7 * 0.84=5.8$ ga/sm		40. $W_{sm}=7 * 0.47=3.2$ ga/sm
18. $W_{sm}=7 * 1.5=10.$ ga/sm		41. $W_{sm}=7 * 20=140$ ga/sm
19. $W_{sm}=7 * 2.14=14.9$ ga/sm		42. $W_{sm}=7 * 5=35$ ga/sm
20. $W_{sm}=7 * 0.72=5.04$ ga/sm		43. $W_{sm}=7 * 20=140$ ga/sm
21. $W_{sm}=7 * 8=56$ ga/sm		44. $W_{sm}=7 * 1.21=8.47$ ga/sm
22. $W_{sm}=7 * 1.4=10.8$ ga/sm		45. $W_{sm}=7 * 20=140$ ga/sm
23. $W_{sm}=7 * 25=175$ ga/sm		46. $W_{sm}=7 * 5=35$ ga/sm
24. $W_{sm}=7 * 8=56$ ga/sm		47. $W_{sm}=7 * 20=140$ ga/sm

$$25. W_{sm}=7*25=17 \text{ ga/sm } 5$$

$$26. W_{sm}=7*0.24=1.6 \text{ ga/sm}$$

$$27. W_{sm}=7*1.5=10.5 \text{ ga/sm}$$

$$48. W_{sm}=7*1=7 \text{ ga/sm}$$

$$49. W_{sm}=7*15=105 \text{ ga/sm}$$

$$50. W_{sm}=7*25=175 \text{ ga/sm}$$

Traktorni agrotexnik muddatda bajargan ishi quyidagicha topiladi

15-ustun topish uchun quyidagi fo'rmuladan foydalanamiz

$$W_{im}=W_{sm}*n_{sm}*D_{ish} \quad W_{sm}=14\text{-ustun.} \quad n_{sm}=12\text{-ustun.} \quad D_{ish}=8\text{-ustun}$$

$$1. W_{im} = 25.9*2*27.7=1434.8 \text{ ga/t}$$

$$2. W_{im}=175*2*27.7=9695 \text{ ga/t}$$

$$3. W_{im}=210*1*19.5=4095 \text{ ga/t}$$

$$4. W_{im}=14*1*27.7=387.8 \text{ ga/t}$$

$$5. W_{im}=10.5*1*22.5=236.2 \text{ ga/t}$$

$$6. W_{im}=56*1.5*27.7=1890 \text{ ga/t}$$

$$7. W_{im}=175*1.5*21.55=5656.8 \text{ ga/t}$$

$$8. W_{im}=10.5*1*22.5=236.2 \text{ ga/t}$$

$$9. W_{im}=3.8*1*22.5=85.5 \text{ ga/t}$$

$$10. W_{im}=10.5*1*13.5=141.7 \text{ ga/t}$$

$$11. W_{im}=46.2*1*9.75=448.1 \text{ ga/t}$$

$$12. W_{im}=11.2*3*12=403.2 \text{ ga/t}$$

$$13. W_{im}=7*3*12=252 \text{ ga/t}$$

$$14. W_{im}=19.6*3*9.3=546.8 \text{ ga/t}$$

$$15. W_{im}=35*1*9.3=325.5 \text{ ga/t}$$

$$16. W_{im}=140*19.3=1302 \text{ ga/t}$$

$$17. W_{im}=5.8*1.5*9.3=80.9 \text{ ga/t}$$

$$18. W_{im}=10.5*1*4.65=48.8 \text{ ga/t}$$

$$19. W_{im}=10.5*1*4.65=48.8 \text{ ga/t}$$

$$20. W_{im}=5.04*1.5*13.95=623.5 \text{ ga/t}$$

$$28. W_{im}=6.6*1.5*13.95=138.1 \text{ ga/t}$$

$$29. W_{im}=6.6*1.5*13.95=138.1 \text{ ga/t}$$

$$30. W_{im}=10.5*1.5*13.95=219.7 \text{ ga/t}$$

$$31. W_{im}=7.7*1.5*13.95=161.1 \text{ ga/t}$$

$$32. W_{im}=8.05*1.5*14.25=172.06 \text{ ga/t}$$

$$33. W_{im}=7.7*1.5*14.25=164.5 \text{ ga/t}$$

$$34. W_{im}=6.9*1.5*14.25=147.4 \text{ ga/t}$$

$$35. W_{im}=6.9*1.5*14.25=147.4 \text{ ga/t}$$

$$36. W_{im}=31.5*1*14.25=448.8 \text{ ga/t}$$

$$37.1. W_{im}=15.9*1*9.5=151.05 \text{ ga/t}$$

$$37.2. W_{im}=8.4*1*32.95=276.7 \text{ ga/t}$$

$$37.3. W_{im}=7*1*4.75=33.2 \text{ ga/t}$$

$$37.4. W_{im}=175*1*465=813.7 \text{ ga/t}$$

$$37.5. W_{im}=7*1*7.6=53.2 \text{ ga/t}$$

$$38. W_{im}=35*1*14.25=498.7 \text{ ga/t}$$

$$39. W_{im}=140*1*14.25=1995 \text{ ga/t}$$

$$40. W_{im}=3.2*1.5*16=76.8 \text{ ga/t}$$

$$41. W_{im}=140*1.5*16=3360 \text{ ga/t}$$

$$42. W_{im}=35*1*9.8=343 \text{ ga/t}$$

$$43. W_{im}=140*1*9.8=1372 \text{ ga/t}$$

21. $W_{im}=56*2*9.3=105.4 \text{ ga/t}$
22. $W_{im}=10.8*1*12.25=1041.6 \text{ ga/t}$
23. $W_{im}=175*2*9.3=132.3 \text{ ga/t}$
24. $W_{im}=56*2*9.3=3255 \text{ ga/t}$
25. $W_{im}=175*2*9.3=1041.6 \text{ ga/t}$
26. $W_{im}=1.6*1.5*13.95=3255 \text{ ga/t}$
27. $W_{im}=10.5*1*3.43=33.48 \text{ ga/t}$

44. $W_{im}=8.47*1.5*9.7=123.2 \text{ ga/t}$
45. $W_{im}=140*1.5*9.7=2037 \text{ ga/t}$
46. $W_{im}=35*1*4.85=169.7 \text{ ga/t}$
47. $W_{im}=140*1*14.55=2037 \text{ ga/t}$
48. $W_{im}=7*1*19.94=139.5 \text{ ga/t}$
49. $W_{im}=105*1*19.94=2093.7 \text{ ga/t}$
50. $W_{im}=175*1*19.94=3489.5 \text{ ga/t}$

Trakto'r va QXM ning kerak bo'lgan soni (trakto'r) uchun

16-ustun topish uchun quyidagi fo'rmuladan foydalanamiz

$$M_{tp}=U/W_{im}$$

U-4 ustun W_{im} -15 ustun

1. $M_{tp}=3000/1450,4=2,06 \text{ dona}$
2. $M_{tp}=45000/9800=4,59 \text{ dona}$
3. $M_{tp} =22500/6300=3,57 \text{ dona}$
4. $M_{tp}=75/280=0,26 \text{ dona}$
5. $M_{tp}=1600/262,5=5,71 \text{ dona}$
6. $M_{tp}=800/1680=0,44 \text{ dona}$
- 7 $M_{tp}=3750/5250=0,71 \text{ dona}$
8. $M_{tp}=1600/262,5=5,71 \text{ dona}$
9. $M_{tp}=1600/95=15,7 \text{ dona}$
10. $M_{tp}=300/262,5=1,14 \text{ dona}$
11. $M_{tp} =1600/693=2,16 \text{ dona}$
12. $M_{tp} =4125/4032=1,01. \text{ dona}$
13. $M_{tp}=450/168=2,67 \text{ dona}$
14. $M_{tp}=450/105=4,28 \text{ dona}$
15. $M_{tp}=1600/196=7,65 \text{ dona}$
16. $M_{tp}=825/350=2,35 \text{ dona}$
17. $M_{tp}=4125/1400=2,94 \text{ dona}$
18. $M_{tp}=1500/58=25,86 \text{ dona}$

28. $M_{tp}=1500/99=15,15 \text{ dona}$
29. $M_{tp} =1500/99=15,15 \text{ dona}$
30. $M_{tp}=1500/157,5=9,52 \text{ dona}$
31. $M_{tp}=1500/115,5=12,9 \text{ dona}$
32. $M_{tp}=1500/120,7=12,42 \text{ dona}$
33. $M_{tp}=1500/115,5=12,98 \text{ dona}$
34. $M_{tp}=1500/103,5=14,49 \text{ dona}$
35. $M_{tp}=1500/103,5=14,49 \text{ dona}$
36. $M_{tp}=750/472,5=1,58 \text{ dona}$
- 37.1. $M_{tp}=9.9/159=0,06 \text{ dona}$
- 37.2. $M_{tp}=9.9/42=0,23 \text{ dona}$
- 37.3. $M_{tp}=9.9/35=0,28 \text{ dona}$
- 37.4. $M_{tp}=89/875=0,10 \text{ dona}$
- 37.5 $M_{tp}=9,9/98=0,1 \text{ dona}$
38. $M_{tp}=13950/525=26,5 \text{ dona}$
39. $M_{tp}=69750/2100=33,21 \text{ dona}$
40. $M_{tp}=740.1/72=10,27 \text{ dona}$
41. $M_{tp}=1274614/3150=404,6 \text{ dona}$

19. $M_{tp}=450/447=1,006$ dona
20. $M_{tp}=1600/447=1,006$ dona
21. $M_{tp}=3000/75,6=19,84$ dona
22. $M_{tp}=450/560=0,69$ dona
23. $M_{tp}=2250/648=1,28$ dona
24. $M_{tp}=1537,5/1750=1,28$ dona
25. $M_{tp}=7687,5/560=4,34$ dona
26. $M_{tp}=7687,5/560=4,34$ dona
27. $M_{tp}=150/787,5=1,9$ dona

42. $M_{tp}=9300/525=17,71$ dona
43. $M_{tp}=46500/2100=22,14$ dona
44. $M_{tp}=740,1/169,4=4,36$ dona
45. $M_{tp}=11471,5/2100=5,46$ dona
46. $M_{tp}=11625/175=67,5$ dona
47. $M_{tp}=58125/700=83,03$ dona
48. $M_{tp}=1490,1/140=10,06$ dona
49. $M_{tp} =4470,3/2100=2,12$ dona
50. $M_{tp}=13410,9/3500=3,83$ dona

Trakto'r va QXM ning kerak bo'lgan soni (QXM) uchun

17-ustun topish uchun quyidagi fo'rmuladan foydalanamiz

$M_{kxm}=M_{tp} \cdot n_{kxm}$	M_{tp} -16ustun	n_{kxm} -11ustun
1. $M_{kxm}=2,06 \cdot 1=2,06$ dona		28. $M_{kxm}=15,15 \cdot 1=15,15$ dona
2. $M_{kxm}=4,59 \cdot 2=10,8$ dona		29. $M_{kxm}=15,15 \cdot 1=15,15$ dona
3. $M_{kxm}=3,57 \cdot 1=3,57$ dona		30. $M_{kxm}=9,59 \cdot 1=9,59$ dona
4. $M_{kxm}=0,26 \cdot 1=0,26$ dona		31. $M_{kxm}=12,98 \cdot 1=12,98$ dona
5. $M_{kxm}=5,71 \cdot 1=5,71$ dona		32. $M_{kxm}=12,42 \cdot 1=12,42$ dona
6. $M_{kxm}=0,44 \cdot 1=0,44$ dona		33. $M_{kxm}=12,98 \cdot 1=12,98$ dona
7. $M_{kxm}=0,71 \cdot 1=0,71$ dona		34. $M_{kxm}=14,49 \cdot 1=14,49$ dona
8. $M_{kxm}=5,57 \cdot 1=5,57$ dona		35. $M_{kxm}=14,42 \cdot 1=14,42$ dona
9. $M_{kxm}=15,7 \cdot 1=15,1$ dona		36. $M_{kxm}=1,58 \cdot 1=1,58$ dona
10. $M_{kxm}=1,14 \cdot 1=1,14$ dona		37,1. $M_{kxm}=0,06 \cdot 1=0,06$ dona
11. $M_{kxm}=2,16 \cdot 1=2,16$ dona		37,2. $M_{kxm}=0,23 \cdot 1=0,23$ dona
12. $M_{kxm}=2,57 \cdot 1=2,57$ dona		37,3. $M_{kxm}=0,28 \cdot 1=0,28$ dona
13. $M_{kxm}=4,28 \cdot 1=4,28$ dona		37,4. $M_{kxm}=0,10 \cdot 1=0,10$ dona
14. $M_{kxm}=7,65 \cdot 1=7,65$ dona		37,5. $M_{kxm}=0,10 \cdot 1=0,10$ dona
15. $M_{kxm}=2,35 \cdot 1=2,36$ dona		38. $M_{kxm}=26,5 \cdot 1=26,5$ dona
16. $M_{kxm}=2,94 \cdot 2=5,88$ dona		39. $M_{kxm}=33,21 \cdot 1=33,21$ dona
17. $M_{kxm}=25,86 \cdot 1=25,86$ dona		40. $M_{kxm}=10,27 \cdot 1=10,27$ dona
18. $M_{kxm}=1,42 \cdot 1=1,42$ dona		41. $M_{kxm}=404,6 \cdot 1=404,1$ dona
19. $M_{kxm}=1,006 \cdot 1=1,006$ dona		42. $M_{kxm}=17,71 \cdot 1=17,71$ dona
20. $M_{kxm}=19,84 \cdot 1=19,84$ dona		43. $M_{kxm}=22,14 \cdot 1=22,14$ dona
21. $M_{kxm}=5,35 \cdot 1=5,35$ dona		44. $M_{kxm}=4,36 \cdot 1=4,36$ dona
22. $M_{kxm}=0,69 \cdot 1=0,69$ dona		45. $M_{kxm}=5,46 \cdot 1=5,46$ dona
23. $M_{kxm}=1,28 \cdot 1=1,28$ dona		46. $M_{kxm}=67,5 \cdot 1=67,5$ dona

24. $M_{kxm}=2,74*1=2,74$ dona
 25. $M_{kxm}=4,39*1=4,39$ dona
 26. $M_{kxm}=93,7*1=93,7$ dona
 27. $M_{kxm}=1,9*1=1,9$ dona

47. $M_{kxm}=83,03*1=83,03$ dona
 48. $M_{kxm}=10,6*1=10,6$ dona
 49. $M_{kxm}=2,12*1=2,12$ dona
 50. $M_{kxm}=3,83*1=3,83$ dona

Aperatsiya bajarishga kerak bo'lgan yonilg'i miqdori

19-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$$Q_i = U * Q$$

U-4ustun

Q-18ustun

- | | |
|---|--|
| <p>1. $Q_i = 3000 * 0,80 = 2400$ kg
 2. $Q_i = 45000 * 0,2 = 9000$ kg
 3. $Q_i = 22500 * 0,6 = 13500$ kg
 4. $Q_i = 75 * 2,43 = 3225$ kg
 5. $Q_i = 1600 * 3,9 = 5850$ kg
 6. $Q_i = 800 * 0,20 = 150$ kg
 7. $Q_i = 3750 * 0,2 = 750$ kg
 8. $Q_i = 1600 * 3,9 = 5850$ kg
 9. $Q_i = 1600 * 27,6 = 41,400$ kg
 10. $Q_i = 300 * 13,2 = 3960$ kg
 11. $Q_i = 1600 * 1,9 = 2850$ kg
 12. $Q_i = 450 * 6,5 = 2925$ kg
 13. $Q_i = 450 * 8,9 = 4005$ kg
 14. $Q_i = 1500 * 8,5 = 12750$ kg
 15. $Q_i = 825 * 0,25 = 206,2$ kg
 16. $Q_i = 4125 * 0,25 = 1031,2$ kg
 17. $Q_i = 1600 * 4 = 6400$ kg
 18. $Q_i = 75 * 11,3 = 847,5$ kg
 19. $Q_i = 450 * 5,1 = 2295$ kg
 20. $Q_i = 1500 * 5,1 = 7650$ kg
 21. $Q_i = 3000 * 0,20 = 600$ kg
 22. $Q_i = 450 * 3,3 = 1485$ kg
 23. $Q_i = 2250 * 0,2 = 450$ kg
 24. $Q_i = 1537,5 * 0,20 = 307,5$ kg
 25. $Q_i = 7687,5 * 0,2 = 1537,5$ kg
 26. $Q_i = 1500 * 3,9 = 5850$ kg
 27. $Q_i = 150 * 4,3 = 645$ kg</p> | <p>28. $Q_i = 1600 * 5,1 = 7650$ kg
 29. $Q_i = 1600 * 4,7 = 7050$ kg
 30. $Q_i = 1600 * 4,8 = 7200$ kg
 31. $Q_i = 1600 * 4,9 = 7350$ kg
 32. $Q_i = 1600 * 4,8 = 7200$ kg
 33. $Q_i = 1600 * 4,9 = 7350$ kg
 34. $Q_i = 1600 * 4,4 = 6600$ kg
 35. $Q_i = 1600 * 4,4 = 6600$ kg
 36. $Q_i = 800 * 5,3 = 3975$ kg
 37,1. $Q_i = 9,9 * 4,4 = 43,5$ kg
 37,2. $Q_i = 9,9 * 4,6 = 45,5$ kg
 37,3. $Q_i = 9,9 * 4,6 = 45,5$ kg
 37,4. $Q_i = 89 * 0,2 = 17,8$ kg
 37,5. $Q_i = 99 * 1,3 = 128,7$ kg
 38. $Q_i = 13950 * 0,20 = 2790$ kg
 39. $Q_i = 69750 * 0,25 = 17437,5$ kg
 40. $Q_i = 704,1 * 6,4 = 4506,2$ kg
 41. $Q_i = 1274616,6 * 0,25 = 318654,2$ kg
 42. $Q_i = 9300 * 0,50 = 4650$ kg
 43. $Q_i = 46500 * 0,25 = 11625$ kg
 44. $Q_i = 704,1 * 5,5 = 4070,5$ kg
 45. $Q_i = 11471,5 * 0,25 = 2867,8$ kg
 46. $Q_i = 11625 * 0,20 = 2325$ kg
 47. $Q_i = 58125 * 0,25 = 14531,2$ kg
 48. $Q_i = 1490,1 * 3,5 = 5215,3$ kg
 49. $Q_i = 4470,3 * 0,2 = 894,06$ kg
 50. $Q_i = 13410,9 * 0,2 = 2682,1$ kg</p> |
|---|--|

**Moylash materiallarini va yurgazib yuborishga
ishlatiladigan moyni miqdori
(Mato'r moyi) uchun**

20-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$$Q_{MM}=q_{MM} \cdot Q_i \cdot 4,8$$

$$q_{MM}=18\text{-ustun}$$

$$Q_i=19\text{ustun}$$

- | | |
|--|---|
| 1. $Q_{MM}=0,80 \cdot 240 \cdot 4,8=921,6\text{kg}$ | 28. $Q_{MM}=5,1 \cdot 7650 \cdot 4,8=36720\text{ kg}$ |
| 2. $Q_{MM}=0,2 \cdot 9000 \cdot 4,8=864\text{ kg}$ | 29. $Q_{MM}=4,7 \cdot 7050 \cdot 4,8=33840\text{ kg}$ |
| 3. $Q_{MM}=0,6 \cdot 13500 \cdot 4,8=3888\text{ kg}$ | 30. $Q_{MM}=4,8 \cdot 7200 \cdot 4,8=34560\text{ kg}$ |
| 4. $Q_{MM}=2,43 \cdot 3225 \cdot 4,8=37616,16\text{ kg}$ | 31. $Q_{MM}=4,9 \cdot 7350 \cdot 4,8=35280\text{ kg}$ |
| 5. $Q_{MM}=3,9 \cdot 5850 \cdot 4,8=109512\text{ kg}$ | 32. $Q_{MM}=4,8 \cdot 7200 \cdot 4,8=34560\text{ kg}$ |
| 6. $Q_{MM}=0,20 \cdot 150 \cdot 4,8=144\text{ kg}$ | 33. $Q_{MM}=4,9 \cdot 7350 \cdot 4,8=35280\text{ kg}$ |
| 7. $Q_{MM}=0,2 \cdot 750 \cdot 4,8=720\text{ kg}$ | 34. $Q_{MM}=4,4 \cdot 6600 \cdot 4,8=31680\text{ kg}$ |
| 8. $Q_{MM}=3,9 \cdot 5850 \cdot 4,8=10952\text{ kg}$ | 35. $Q_{MM}=4,4 \cdot 6600 \cdot 4,8=31680\text{ kg}$ |
| 9. $Q_{MM}=27,6 \cdot 41,400 \cdot 4,8=54846,72\text{ kg}$ | 36. $Q_{MM}=5,3 \cdot 3975 \cdot 4,8=19080\text{ kg}$ |
| 10. $Q_{MM}=13,2 \cdot 3960 \cdot 4,8=250905\text{ kg}$ | 37,1. $Q_{MM}=4,4 \cdot 43,5 \cdot 4,8=208,8\text{ kg}$ |
| 11. $Q_{MM}=1,9 \cdot 2850 \cdot 4,8=25992\text{ kg}$ | 37,2. $Q_{MM}=4,6 \cdot 45,5 \cdot 4,8=218,4\text{ kg}$ |
| 12. $Q_{MM}=6,5 \cdot 2925 \cdot 4,8=91260\text{ kg}$ | 37,3. $Q_{MM}=4,6 \cdot 45,5 \cdot 4,8=218,4\text{ kg}$ |
| 13. $Q_{MM}=8,9 \cdot 4005 \cdot 4,8=19224\text{ kg}$ | 37,4. $Q_{MM}=0,2 \cdot 17,8 \cdot 4,8=85,44\text{ kg}$ |
| 14. $Q_{MM}=8,5 \cdot 12750 \cdot 4,8=61200\text{ kg}$ | 37,5. $Q_{MM}=1,3 \cdot 128,7 \cdot 4,8=617,76\text{ kg}$ |
| 15. $Q_{MM}=0,25 \cdot 206,2 \cdot 4,8=989,76\text{ kg}$ | 38. $Q_{MM}=0,20 \cdot 2790 \cdot 4,8=2790\text{ kg}$ |
| 16. $Q_{MM}=0,25 \cdot 1031,2 \cdot 4,8=4949,76\text{ kg}$ | 39. $Q_{MM}=0,25 \cdot 17437,5 \cdot 4,8=17437,5\text{ kg}$ |
| 17. $Q_{MM}=4 \cdot 6000 \cdot 4,8=28800\text{ kg}$ | 40. $Q_{MM}=6,4 \cdot 4506,2 \cdot 4,8=4506,2\text{ kg}$ |
| 18. $Q_{MM}=11,3 \cdot 847,5 \cdot 4,8=4068\text{ kg}$ | 41. $Q_{MM}=0,25 \cdot 318654,2 \cdot 4,8=318654,2\text{ kg}$ |
| 19. $Q_{MM}=5,1 \cdot 2295 \cdot 4,8=11016\text{ kg}$ | 42. $Q_{MM}=0,50 \cdot 4650 \cdot 4,8=4650\text{ kg}$ |
| 20. $Q_{MM}=5,1 \cdot 7650 \cdot 4,8=36790\text{ kg}$ | 43. $Q_{MM}=0,25 \cdot 11625 \cdot 4,8=11625\text{ kg}$ |
| 21. $Q_{MM}=0,20 \cdot 600 \cdot 4,8=2880\text{ kg}$ | 44. $Q_{MM}=5,5 \cdot 4070,5 \cdot 4,8=4070,5\text{ kg}$ |
| 22. $Q_{MM}=3,3 \cdot 1485 \cdot 4,8=7128\text{ kg}$ | 45. $Q_{MM}=0,25 \cdot 2867,8 \cdot 4,8=2867,8\text{ kg}$ |
| 23. $Q_{MM}=0,2 \cdot 450 \cdot 4,8=2160\text{ kg}$ | 46. $Q_{MM}=0,20 \cdot 2325 \cdot 4,8=2325\text{ kg}$ |
| 24. $Q_{MM}=0,20 \cdot 307,5 \cdot 4,8=1476\text{ kg}$ | 47. $Q_{MM}=0,25 \cdot 14531,2 \cdot 4,8=14531,2\text{ kg}$ |
| 25. $Q_{MM}=0,2 \cdot 1537,5 \cdot 4,8=7380\text{ kg}$ | 48. $Q_{MM}=3,5 \cdot 5215,3 \cdot 4,8=5215,3\text{ kg}$ |
| 26. $Q_{MM}=3,9 \cdot 5850 \cdot 4,8=28080\text{ kg}$ | 49. $Q_{MM}=0,2 \cdot 894,06 \cdot 4,8=894,06\text{ kg}$ |
| 27. $Q_{MM}=4,3 \cdot 645 \cdot 4,8=3096\text{ kg}$ | 50. $Q_{MM}=0,2 \cdot 2682,1 \cdot 4,8=2682,1\text{ kg}$ |

**Moylash materiallarini va yurgazib yuborishga
ishlatiladigan moyni miqdori
(Trasmissiya moyi) uchun**

21-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$$Q_{MM}=q_{MM} \cdot Q_i \cdot 1$$

$$q_{MM}=18\text{-ustun}$$

$$Q_i=19\text{ustun}$$

- | | |
|--|--|
| 1. $Q_{MM}=0,80 \cdot 240 \cdot 1=192\text{kg}$ | 28. $Q_{MM}=5,1 \cdot 7650 \cdot 1=39015\text{ kg}$ |
| 2. $Q_{MM}=0,2 \cdot 9000 \cdot 1=180\text{ kg}$ | 29. $Q_{MM}=4,7 \cdot 7050 \cdot 1=33135\text{ kg}$ |
| 3. $Q_{MM}=0,6 \cdot 13500 \cdot 1=8100\text{ kg}$ | 30. $Q_{MM}=4,8 \cdot 7200 \cdot 1=34560\text{ kg}$ |
| 4. $Q_{MM}=2,43 \cdot 3225 \cdot 1=7836,7\text{ kg}$ | 31. $Q_{MM}=4,9 \cdot 7350 \cdot 1=36015\text{ kg}$ |
| 5. $Q_{MM}=3,9 \cdot 5850 \cdot 1=22815\text{ kg}$ | 32. $Q_{MM}=4,8 \cdot 7200 \cdot 1=34560\text{ kg}$ |
| 6. $Q_{MM}=0,20 \cdot 150 \cdot 1=30\text{ kg}$ | 33. $Q_{MM}=4,9 \cdot 7350 \cdot 1=36015\text{ kg}$ |
| 7. $Q_{MM}=0,2 \cdot 750 \cdot 1150=172500\text{ kg}$ | 34. $Q_{MM}=4,4 \cdot 6600 \cdot 1=29040\text{ kg}$ |
| 8. $Q_{MM}=3,9 \cdot 5850 \cdot 1=22815\text{ kg}$ | 35. $Q_{MM}=4,4 \cdot 6600 \cdot 1=29040\text{ kg}$ |
| 9. $Q_{MM}=27,6 \cdot 41,400 \cdot 1=1142640\text{ kg}$ | 36. $Q_{MM}=5,3 \cdot 3975 \cdot 1=21067,5\text{ kg}$ |
| 10. $Q_{MM}=13,2 \cdot 3960 \cdot 1=52272\text{ kg}$ | 37,1. $Q_{MM}=4,4 \cdot 43,5 \cdot 1=191,4\text{ kg}$ |
| 11. $Q_{MM}=1,9 \cdot 2850 \cdot 1=5415\text{ kg}$ | 37,2. $Q_{MM}=4,6 \cdot 45,5 \cdot 1=209,3\text{ kg}$ |
| 12. $Q_{MM}=6,5 \cdot 2925 \cdot 1=19012,5\text{ kg}$ | 37,3. $Q_{MM}=4,6 \cdot 45,5 \cdot 1=209,3\text{ kg}$ |
| 13. $Q_{MM}=8,9 \cdot 4005 \cdot 1=35644,5\text{ kg}$ | 37,4. $Q_{MM}=0,2 \cdot 17,8 \cdot 1=3,56\text{ kg}$ |
| 14. $Q_{MM}=8,5 \cdot 12750 \cdot 1=108375\text{ kg}$ | 37,5. $Q_{MM}=1,3 \cdot 128,7 \cdot 1=167,3\text{ kg}$ |
| 15. $Q_{MM}=0,25 \cdot 206,2 \cdot 1=51,5\text{ kg}$ | 38. $Q_{MM}=0,20 \cdot 2790 \cdot 1=558\text{ kg}$ |
| 16. $Q_{MM}=0,25 \cdot 1031,2 \cdot 1=257,8\text{ kg}$ | 39. $Q_{MM}=0,25 \cdot 17437,5 \cdot 1=4359,3\text{ kg}$ |
| 17. $Q_{MM}=4 \cdot 6000 \cdot 1=24000\text{ kg}$ | 40. $Q_{MM}=6,4 \cdot 4506,2 \cdot 1=28839,6\text{ kg}$ |
| 18. $Q_{MM}=11,3 \cdot 847,5 \cdot 1=9576,7\text{ kg}$ | 41. $Q_{MM}=0,25 \cdot 318654,2 \cdot 1=79663,5\text{ kg}$ |
| 19. $Q_{MM}=5,1 \cdot 2295 \cdot 1=11704,5$ | 42. $Q_{MM}=0,50 \cdot 4650 \cdot 1=2325\text{ kg}$ |
| 20. $Q_{MM}=5,1 \cdot 7650 \cdot 1=59692,9$ | 43. $Q_{MM}=0,25 \cdot 11625 \cdot 1=2906,25\text{ kg}$ |
| 21. $Q_{MM}=0,20 \cdot 600 \cdot 1=120\text{ kg}$ | 44. $Q_{MM}=5,5 \cdot 4070,5 \cdot 1=22387,7\text{ kg}$ |
| 22. $Q_{MM}=3,3 \cdot 1485 \cdot 1=4900,5\text{ kg}$ | 45. $Q_{MM}=0,25 \cdot 2867,8 \cdot 1=716,9\text{ kg}$ |
| 23. $Q_{MM}=0,2 \cdot 450 \cdot 1=90\text{ kg}$ | 46. $Q_{MM}=0,20 \cdot 2325 \cdot 1=465\text{ kg}$ |
| 24. $Q_{MM}=0,20 \cdot 307,5 \cdot 161,5=9932,2\text{ kg}$ | 47. $Q_{MM}=0,25 \cdot 14531,2 \cdot 1=3632,8\text{ kg}$ |
| 25. $Q_{MM}=0,2 \cdot 1537,5 \cdot 1=307,5\text{ kg}$ | 48. $Q_{MM}=3,5 \cdot 5215,3 \cdot 1=18253,55\text{ kg}$ |
| 26. $Q_{MM}=3,9 \cdot 5850 \cdot 1=22815\text{ kg}$ | 49. $Q_{MM}=0,2 \cdot 894,06 \cdot 1=178,8\text{ kg}$ |
| 27. $Q_{MM}=4,3 \cdot 645 \cdot 1=2773,5\text{ kg}$ | 50. $Q_{MM}=0,2 \cdot 2682,1 \cdot 1=536,42\text{ kg}$ |

Moylash materiallarini va yurgazib yuborishga ishlatiladigan moyni miqdori (Salidor) uchun

22-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$$Q_{MM}=q_{MM} \cdot Q_i \cdot 0,8$$

$$q_{MM}=18\text{-ustun}$$

$$Q_i=19\text{ustun}$$

- | | |
|--|--|
| <p>1. $Q_{MM}=0,80 \cdot 240 \cdot 0,8=153,6\text{kg}$</p> <p>2. $Q_{MM}=0,2 \cdot 9000 \cdot 0,8=144\text{ kg}$</p> <p>3. $Q_{MM}=0,6 \cdot 13500 \cdot 0,8=6480\text{ kg}$</p> <p>4. $Q_{MM}=2,43 \cdot 3225 \cdot 0,8=6269,3\text{ kg}$</p> <p>5. $Q_{MM}=3,9 \cdot 5850 \cdot 0,8=18252\text{ kg}$</p> <p>6. $Q_{MM}=0,20 \cdot 150 \cdot 0,8=24\text{ kg}$</p> <p>7. $Q_{MM}=0,2 \cdot 750 \cdot 0,8=120\text{ kg}$</p> <p>8. $Q_{MM}=3,9 \cdot 5850 \cdot 0,8=18252\text{ kg}$</p> <p>9. $Q_{MM}=27,6 \cdot 41,400 \cdot 0,8=914112\text{ kg}$</p> <p>10. $Q_{MM}=13,2 \cdot 3960 \cdot 0,8=41817,6\text{ kg}$</p> <p>11. $Q_{MM}=1,9 \cdot 2850 \cdot 0,8=4332\text{ kg}$</p> <p>12. $Q_{MM}=6,5 \cdot 2925 \cdot 0,8=15210\text{ kg}$</p> <p>13. $Q_{MM}=8,9 \cdot 4005 \cdot 0,8=28515,6\text{ kg}$</p> <p>14. $Q_{MM}=8,5 \cdot 12750 \cdot 0,8=86700\text{ kg}$</p> <p>15. $Q_{MM}=0,25 \cdot 206,2 \cdot 0,8=41,2\text{ kg}$</p> <p>16. $Q_{MM}=0,25 \cdot 1031,2 \cdot 0,8=206,24\text{ kg}$</p> <p>17. $Q_{MM}=4 \cdot 6000 \cdot 0,8=19200\text{ kg}$</p> <p>18. $Q_{MM}=11,3 \cdot 847,5 \cdot 0,8=7661,36\text{ kg}$</p> <p>19. $Q_{MM}=5,1 \cdot 2295 \cdot 0,8=7661,36\text{ kg}$</p> <p>20. $Q_{MM}=5,1 \cdot 7650 \cdot 0,8=9363,6\text{ kg}$</p> <p>21. $Q_{MM}=0,20 \cdot 600 \cdot 0,8=47754,3\text{ kg}$</p> <p>22. $Q_{MM}=3,3 \cdot 1485 \cdot 0,8=96\text{ kg}$</p> <p>23. $Q_{MM}=0,2 \cdot 450 \cdot 0,8=3920,4\text{ kg}$</p> <p>24. $Q_{MM}=0,20 \cdot 307,5 \cdot 0,8=72\text{ kg}$</p> <p>25. $Q_{MM}=0,2 \cdot 1537,5 \cdot 0,8=49,2\text{ kg}$</p> <p>26. $Q_{MM}=3,9 \cdot 5850 \cdot 0,8=246\text{ kg}$</p> <p>27. $Q_{MM}=4,3 \cdot 645 \cdot 0,8=18252\text{ kg}$</p> | <p>28. $Q_{MM}=5,1 \cdot 7650 \cdot 0,8=2218,8\text{ kg}$</p> <p>29. $Q_{MM}=4,7 \cdot 7050 \cdot 0,8=31212\text{ kg}$</p> <p>30. $Q_{MM}=4,8 \cdot 7200 \cdot 0,8=26508\text{ kg}$</p> <p>31. $Q_{MM}=4,9 \cdot 7350 \cdot 0,8=27648\text{ kg}$</p> <p>32. $Q_{MM}=4,8 \cdot 7200 \cdot 0,8=28812\text{ kg}$</p> <p>33. $Q_{MM}=4,9 \cdot 7350 \cdot 0,8=27648\text{ kg}$</p> <p>34. $Q_{MM}=4,4 \cdot 6600 \cdot 0,8=28812\text{ kg}$</p> <p>35. $Q_{MM}=4,4 \cdot 6600 \cdot 0,8=23232\text{ kg}$</p> <p>36. $Q_{MM}=5,3 \cdot 3975 \cdot 0,8=23232\text{ kg}$</p> <p>37,1. $Q_{MM}=4,4 \cdot 43,5 \cdot 0,8=153,12\text{ kg}$</p> <p>37,2. $Q_{MM}=4,6 \cdot 45,5 \cdot 0,8=167,44\text{ kg}$</p> <p>37,3. $Q_{MM}=4,6 \cdot 45,5 \cdot 0,8=167,44\text{ kg}$</p> <p>37,4. $Q_{MM}=0,2 \cdot 17,8 \cdot 0,8=2,84\text{ kg}$</p> <p>37,5. $Q_{MM}=1,3 \cdot 128,7 \cdot 0,8=133,84\text{ kg}$</p> <p>38. $Q_{MM}=0,20 \cdot 2790 \cdot 0,8=446,4\text{ kg}$</p> <p>39. $Q_{MM}=0,25 \cdot 17437,5 \cdot 0,8=3487,44\text{ kg}$</p> <p>40. $Q_{MM}=6,4 \cdot 4506,2 \cdot 0,8=23071,6\text{ kg}$</p> <p>41. $Q_{MM}=0,25 \cdot 318654,2 \cdot 0,8=63730,8\text{ kg}$</p> <p>42. $Q_{MM}=0,50 \cdot 4650 \cdot 0,8=1860\text{ kg}$</p> <p>43. $Q_{MM}=0,25 \cdot 11625 \cdot 0,8=2325\text{ kg}$</p> <p>44. $Q_{MM}=5,5 \cdot 4070,5 \cdot 0,8=17910,16\text{ kg}$</p> <p>45. $Q_{MM}=0,25 \cdot 2867,8 \cdot 0,8=573,52\text{ kg}$</p> <p>46. $Q_{MM}=0,20 \cdot 2325 \cdot 0,8=372\text{ kg}$</p> <p>47. $Q_{MM}=0,25 \cdot 14531,2 \cdot 0,8=2906,2\text{ kg}$</p> <p>48. $Q_{MM}=3,5 \cdot 5215,3 \cdot 0,8=14602,8\text{ kg}$</p> <p>49. $Q_{MM}=0,2 \cdot 894,06 \cdot 0,8=143,04\text{ kg}$</p> <p>50. $Q_{MM}=0,2 \cdot 2682,1 \cdot 0,8=429,13\text{ kg}$</p> |
|--|--|

Ish birligiga ketgan mexnat sarfi

25-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$H_0=m/W_c$	m-24ustun	W_c -13ustun
1. $H_0=1/3,7=0,27$ kishi/soat		28. $H_0=1/0,95=1,05$ kishi/soat
2. $H_0=1/25=0,04$ kishi/soat		29. $H_0=2/0,95=2,1$ kishi/soat
3. $H_0=1/30=0,03$ kishi/soat		30. $H_0=1/1,05=0,95$ kishi/soat
4. $H_0=1/2=0,5$ kishi/soat		31. $H_0=2/1,1=1,81$ kishi/soat
5. $H_0=1/1,5=0,6$ kishi/soat		32. $H_0=1/1,15=0,86$ kishi/soat
6. $H_0=1/8=0,12$ kishi/soat		33. $H_0=1/1,1=0,90$ kishi/soat
7. $H_0=1/2,5=0,4$ kishi/soat		34. $H_0=1/0,99=1,01$ kishi/soat
8. $H_0=1/1,5=0,6$ kishi/soat		35. $H_0=1/0,99=1,01$ kishi/soat
9. $H_0=1/0,55=1,81$ kishi/soat		36. $H_0=1/4,5=0,22$ kishi/soat
10. $H_0=1/1,5=0,6$ kishi/soat		37.1. $H_0=1/2,28=0,43$ kishi/soat
11. $H_0=1/6,6=0,15$ kishi/soat		37.2. $H_0=1/1,2=0,83$ kishi/soat
12. $H_0=1/1,6=0,62$ kishi/soat		37.3. $H_0=1/1=1$ kishi/soat
13. $H_0=1/1=1$ kishi/soat		37.4. $H_0=1/25=0,04$ kishi/soat
14. $H_0=1/2,8=0,35$ kishi/soat		37.5. $H_0=1/1=1$ kishi/soat
15. $H_0=1/5=0,2$ kishi/soat		38. $H_0=1/5=0,2$ kishi/soat
16. $H_0=1/20=0,05$ kishi/soat		39. $H_0=1/20=0,05$ kishi/soat
17. $H_0=2/0,84=2,38$ kishi/soat		40. $H_0=1/0,47=2,12$ kishi/soat
18. $H_0=1/1,5=0,66$ kishi/soat		41. $H_0=1/20=0,05$ kishi/soat
19. $H_0=1/2,14=0,46$ kishi/soat		42. $H_0=1/5=0,2$ kishi/soat
20. $H_0=1/0,72=1,38$ kishi/soat		43. $H_0=1/20=0,05$ kishi/soat
21. $H_0=1/8=0,12$ kishi/soat		44. $H_0=1/1,21=0,82$ kishi/soat
22. $H_0=1/1,44=0,69$ kishi/soat		45. $H_0=1/20=0,05$ kishi/soat
23. $H_0=1/25=0,04$ kishi/soat		46. $H_0=1/5=0,2$ kishi/soat
24. $H_0=1/8=0,12$ kishi/soat		47. $H_0=1/20=0,05$ kishi/soat
25. $H_0=1/25=0,04$ kishi/soat		48. $H_0=1/1=1$ kishi/soat
26. $H_0=2/0,24=4,16$ kishi/soat		49. $H_0=1/15=0,06$ kishi/soat
27. $H_0=1/1,5=0,66$ kishi/soat		50. $H_0=1/25=0,04$ kishi/soat

Aperatsiya bajarishga ketganmexnat sarfi

26-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$H_u=U/H_0$	U-4ustun	H_0 -24ustun
1. $H_u=3000/1=3000$ kishi/soat		28. $H_u=1600/1=1500$ kishi/soat
2. $H_u=45000/1=45000$ kishi/soat		29. $H_u=1600/2=750$ kishi/soat
3. $H_u=22500/1=22500$ kishi/soat		30. $H_u=1600/1=1500$ kishi/soat
4. $H_u=75/1=75$ kishi/soat		31. $H_u=1600/2=750$ kishi/soat
5. $H_u=1500/1=1500$ kishi/soat		32. $H_u=1600/1=1500$ kishi/soat
6. $H_u=750/1=750$ kishi/soat		33. $H_u=1600/1=1500$ kishi/soat
7. $H_u=3750/1=3750$ kishi/soat		34. $H_u=1600/1=1500$ kishi/soat
8. $H_u=1600/1=1500$ kishi/soat		35. $H_u=1600/1=1500$ kishi/soat
9. $H_u=1600/1=1500$ kishi/soat		36. $H_u=800/1=750$ kishi/soat
10. $H_u=300/1=300$ kishi/soat		37.1. $H_u=9,9/1=9,9$ kishi/soat
11. $H_u=1600/1=1500$ kishi/soat		37.2. $H_u=9,9/1=9,9$ kishi/soat
12. $H_u=450/1=450$ kishi/soat		37.3. $H_u=9,9/1=9,9$ kishi/soat
13. $H_u=450/1=450$ kishi/soat		37.4. $H_u=89/1=89$ kishi/soat
14. $H_u=1500/1=1500$ kishi/soat		37.5. $H_u=99/1=99$ kishi/soat
15. $H_u=825/1=825$ kishi/soat		38. $H_u=13950/1=13950$ kishi/soat
16. $H_u=4125/1=4125$ kishi/soat		39. $H_u=69750/1=69750$ kishi/soat
17. $H_u=1600/2=750$ kishi/soat		40. $H_u=740,1/1=740,1$ kishi/soat
18. $H_u=75/1=75$ kishi/soat		41. $H_u=1274616,6/1=1274616,6$ kishi/soat
19. $H_u=450/1=450$ kishi/soat		42. $H_u=9300/1=9300$ kishi/soat
20. $H_u=1600/1=1500$ kishi/soat		43. $H_u=46500/1=46500$ kishi/soat
21. $H_u=3000/1=3000$ kishi/soat		44. $H_u=740,1/1=740,1$ kishi/soat
22. $H_u=450/1=450$ kishi/soat		45. $H_u=11471,5/1=11471,5$ kishi/soat
23. $H_u=2250/1=2250$ kishi/soat		46. $H_u=11625/1=11625$ kishi/soat
24. $H_u=1537,5/1=1537,5$ kishi/soat		47. $H_u=58125/1=58125$ kishi/soat
25. $H_u=7687,5/1=7687,5$ kishi/soat		48. $H_u=1490,1/1=1490,1$ kishi/soat
26. $H_u=1600/2=750$ kishi/soat		49. $H_u=4470,3/1=4470,3$ kishi/soat
27. $H_u=150/1=150$ kishi/soat		50. $H_u=13410,9/1=13410,9$ kishi/soat

Ish birligiga ketgan eksplatatsion harajatlar quyidagicha topiladi

so'm/ga so'm/to'nna so'm/tkm

27-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

Berilgan qiymatni xar-birini 10000 ga ko'paytiramiz.

1. $C_o=0,33*10000=3300$ so'm/ga
2. $C_o=0,33*10000=3300$ so'm/ga
3. $C_o=3,1*10000=31000$ so'm/ga
4. $C_o=0,04*10000=400$ so'm/ga
5. $C_o=0,69*10000=6900$ so'm/ga
6. $C_o=0,33*10000=3300$ so'm/ga
7. $C_o=3,7*10000=37000$ so'm/ga
8. $C_o=1,5*10000=15000$ so'm/ga
9. $C_o=3,07*10000=30700$ so'm/ga
10. $C_o=0,55*10000=5500$ so'm/ga
11. $C_o=0,67*10000=6700$ so'm/ga
12. $C_o=1,21*10000=12100$ so'm/ga
13. $C_o=0,55*10000=5500$ so'm/ga
14. $C_o=0,50*10000=5000$ so'm/ga
15. $C_o=0,40*10000=4000$ so'm/ga
16. $C_o=0,25*10000=2500$ so'm/ga
17. $C_o=4,6*10000=46000$ so'm/ga
18. $C_o=0,04*10000=400$ so'm/ga
19. $C_o=0,80*10000=8000$ so'm/ga
20. $C_o=1,58*10000=15800$ so'm/ga
21. $C_o=0,33*10000=3300$ so'm/ga
22. $C_o=0,36*10000=3600$ so'm/ga
23. $C_o=0,33*10000=3300$ so'm/ga
24. $C_o=0,33*10000=3300$ so'm/ga
25. $C_o=0,33*10000=3000$ so'm/ga
26. $C_o=1,87*10000=18700$ so'm/ga
27. $C_o=0,28*10000=2800$ so'm/ga
28. $C_o=0,81*10000=8100$ so'm/ga
29. $C_o=1,87*10000=18700$ so'm/ga
30. $C_o=0,81*10000=8100$ so'm/ga
31. $C_o=4,9*10000=49000$ so'm/ga
32. $C_o=4,8*10000=48000$ so'm/ga
33. $C_o=4,9*10000=49000$ so'm/ga
34. $C_o=4,4*10000=44000$ so'm/ga
35. $C_o=4,4*10000=44000$ so'm/ga
36. $C_o=5,3*10000=53000$ so'm/ga
- 37.1. $C_o=4,4*10000=44000$ so'm/ga
- 37.2. $C_o=4,6*10000=46000$ so'm/ga
- 37.3. $C_o=4,6*10000=46000$ so'm/ga
- 37.4. $C_o=0,2*10000=2000$ so'm/ga
- 37.5. $C_o=1,3*10000=13000$ so'm/ga
38. $C_o=0,20*10000=2000$ so'm/ga
39. $C_o=0,25*10000=2500$ so'm/ga
40. $C_o=6,4*10000=64000$ so'm/ga
41. $C_o=0,25*10000=2500$ so'm/ga
42. $C_o=0,50*10000=5000$ so'm/ga
43. $C_o=0,25*10000=2500$ so'm/ga
44. $C_o=5,5*10000=55000$ so'm/ga
45. $C_o=0,25*10000=2500$ so'm/ga
46. $C_o=0,20*10000=2000$ so'm/ga
47. $C_o=0,25*10000=2500$ so'm/ga
48. $C_o=3,5*10000=35000$ so'm/ga
49. $C_o=0,2*10000=2000$ so'm/ga
50. $C_o=0,2*10000=2000$ so'm/ga

Aperatsiyani bajarishga ketgan eksplatatsion xarajatlar

28-ustunni topish uchun quyidagi fo'rmuladan foydalanamiz

$$C_u = U * C_o * 10000$$

U-4ustun

C_o-27ustun

1. $C_u = 3200 * 3300 = 10560000$ so'm
2. $C_u = 1600 * 3300 = 52800000$ so'm
3. $C_u = 24000 * 3100 = 744000000$ so'm
4. $C_u = 80 * 4000 = 32000000$ so'm
5. $C_u = 1600 * 6900 = 11040000$ so'm
6. $C_u = 800 * 3300 = 26400000$ so'm
7. $C_u = 4000 * 4500 = 18000000$ so'm
8. $C_u = 1600 * 6500 = 104000000$ so'm
9. $C_u = 1600 * 30700 = 49120000000$ so'm
10. $C_u = 320 * 5500 = 176000000$ so'm
11. $C_u = 3200 * 6700 = 214400000$ so'm
12. $C_u = 640 * 1210 = 77440000$ so'm
13. $C_u = 640 * 5500 = 352000000$ so'm
14. $C_u = 1600 * 5000 = 80000000$ so'm
15. $C_u = 880 * 4000 = 3520000000$ so'm
16. $C_u = 4400 * 2500 = 110000000$ so'm
17. $C_u = 1600 * 46000 = 736000000$ so'm
18. $C_u = 80 * 4000 = 32000000$ so'm
19. $C_u = 300 * 8000 = 24000000$ so'm
20. $C_u = 1600 * 15800 = 252800000$ so'm
21. $C_u = 3200 * 3300 = 105600000$ so'm
22. $C_u = 480 * 3600 = 17280000$ so'm
23. $C_u = 16000 * 3300 = 528000000$ so'm
24. $C_u = 1640 * 3300 = 541200000$ so'm
25. $C_u = 8200 * 3300 = 270600000$ so'm
26. $C_u = 1600 * 18700 = 29920000$ so'm
27. $C_u = 160 * 2800 = 44800000$ so'm
28. $C_u = 1600 * 8100 = 12960000$ so'm
29. $C_u = 1600 * 18700 = 299200000$ so'm
30. $C_u = 1600 * 8100 = 129600000$ so'm
31. $C_u = 1600 * 49000 = 299600000$ so'm
32. $C_u = 1600 * 48000 = 129600000$ so'm
33. $C_u = 1600 * 49000 = 129600000$ so'm
34. $C_u = 1600 * 44000 = 129600000$ so'm
35. $C_u = 1600 * 44000 = 129600000$ so'm
36. $C_u = 800 * 53000 = 1600000$ so'm

- 37,1. $C_u=13*10000=1300000$ so'm
- 37,2. $C_u=14*46000=455400000$ so'm
- 37,3. $C_u=14*46000=455400000$ so'm
- 37,4. $C_u=89*2000=178000000$ so'm
- 37,5. $C_u=99*13000=128700000$ so'm
- 38. $C_u=912*3500=319200000$ so'm
- 39. $C_u=4560*6000=2736400000$ so'm
- 40. $C_u=786*8000=628800000$ so'm
- 41. $C_u=4480*6000=268800000$ so'm
- 42. $C_u=608*3500=21280000$ so'm
- 43. $C_u=3040*6000=182400000$ so'm
- 44. $C_u=786*60500=4755300000$ so'm
- 45. $C_u=1493*6000=1824000000$ so'm
- 46. $C_u=608*3500=2128000000$ so'm
- 47. $C_u=304*2500=1824000000$ so'm
- 48. $C_u=1586*35000=317200000$ so'm
- 49. $C_u=4758*3500=166530000$ so'm
- 50. $C_u=14274*6000=856440000$ so'm

1. Берилган операцияни – (биринчи узунасига культивацияни) ҳисоблаш методикаси.

Берилган: Экин майдони 1600 га, картанинг узунлиги 1200 м, қиялик 0°
1. Агерагтнинг тортишга бўлган қаршилиги аниқланади.

$$R_m = G_m [f_m (1 - \rho) \pm i] + a \cdot n \cdot k_d$$

бу ерда: G_m – машинанинг массаси, Н; $G_m = 1552 \text{ кг} = 15520 \text{ Н}$

f_m – машинанинг юришга бўлган қаршилик коэффиценти,

$$f_m = 0,1$$

ρ – машина массасини қандай қисми тракторга тушишини кўрсатувчи коэффиценти,

i – қиялик, $i = 0^\circ$;

a – машинанинг ишлаш чуқурлиги, см;

n – ишчи органлар сони;

k_d – ишчи органларни тупроққа қаршилик кўрсатиш коэффиценти.

Биринчи узунасига культивацияда культиваторга қуйидаги ишчи органлар ўрнатилади:

1. Ўғитлагич сошниги

$n=4$ дона;

$$a_1 = 12 \text{ см}; k_{d_1} = 20 \text{ Н / см};$$

2. Стрелкасимон юмшатгич

$n=5$ дона;

$$a_2 = 14 \text{ см}; k_{d_2} = 50 \text{ Н / см};$$

3. Дискали юмшатгич

$n=8$ дона;

$$a_3 = 5 \text{ см}; k_{d_3} = 25 \text{ Н / см};$$

4. Қирқувчи ишчи орган

$n=16$ дона,

$$a_4 = 6 \text{ см}; k_{d_4} = 30 \text{ Н / см}.$$

Культиваторга ҳар-хил ишчи органлар ўрнатилгани сабабли, унинг тортишга бўлган қаршилиги қуйидаги формула ёрдамида аниқланади.

$$R_m = G_m [f_m (1 - p) \pm i] + \sum_{i=1}^n a_i \cdot n_i \cdot k_{d_i}$$

ёки

$$R_m = G_m [f_m (1 - p) \pm i] + a_1 n_1 k_{d_1} + a_2 n_2 k_{d_2} + a_3 n_3 k_{d_3} + a_4 n_4 k_{d_4}$$

$$R_{m1} = 15520[0,1(1-0,4)+3] + 12 \cdot 4 \cdot 20 + 5 \cdot 14 \cdot 50 + 8 \cdot 5 \cdot 25 + 16 \cdot 6 \cdot 30 = 55831 \text{ Н}$$

кийматларни ўрнига қўйиб ҳисобласак

$$R_{m1} = 55831 \text{ Н}$$

$$R_{m2} = -37289 \text{ Н}$$

$$R = (R_{m1} + R_{m2}) / 2 = 9271 \text{ Н}$$

2. Агротехника талабаларига мувофиқ культиваторли агрегат I узунасига ишловда 3,5-4 км/с тезликда ҳаракатланади.

Бундай тезликда тракторни илмоқдаги кучи $P_{ул} = 10000 \text{ Н}$ бўлганда $v_{иш} = 4,1 \text{ км/с}$, $v_{ст} = 5,3 \text{ км/соат}$ ёнилғи сарфи, $v_{см} = 6,5 \text{ кг/с}$, $v_o = 0$, $G_{см} = 5.8 \text{ кг/с}$; $G_o = 2 \dots 10$ жадваллар.

3. Тракторни тортиш кучидан фойдаланиш коэффициентини

$$\eta_{ул} = \frac{R_m}{P_{ул}} = \frac{9271}{10000} = 0,92$$

4. Агрегатнинг соатлик иш унуми қуйидаги формула (3.10) ёрдамида аниқланади.

$$W_c = 0,1 \cdot B_{иш} \cdot v_{иш} \cdot \tau$$

$B_{иш} = 3,6 \text{ м}$ – агрегатнинг ишчи қамраш кенглиги;

$v_{иш} = 4.1 \text{ км/соат}$ пункт I – ишчи тезлик;

τ – вақтдан фойдаланиш коэффициенти.

$$\tau = \frac{T_{иш}}{T_{см}} = \frac{6,16}{7} = 0,8$$

$T_{иш}$ иш вақти $T_{иш} = 6,30 \text{ соат}$ [11-жадвал]

$$W_c = 0,1 \cdot 3,6 \cdot 4,1 \cdot 0,9 = 1,32 \quad \text{га/соат}$$

5. Агрегатнинг сменали иш унуми

$$W_{cm} = W_c \cdot T_{cm} = 1,32 \cdot 7 = 9,24 \text{ га/см}$$

6. Агрегатнинг битта жараён бўйича агротехник муддатда бажарилиши мумкин бўлган иш миқдори

$$W_{u.m} = W_{cm} \cdot \Pi_{cm} \cdot D_{uш} = 9,24 \cdot 1,5 \cdot 15 = 207,9 \text{ га}$$

бу ерда: n_{cm} -бир иш кундаги сменалар сони

$D_{uш}$ -ишчи кунлар сони

7. Ҳар-бир жараён бажариш учун талаб қилинадиган трактор ва қишлоқ хўжалик машиналари сони

$$\text{Трактор} \quad M_{mp} = \frac{U}{W_{u.m}} = \frac{1600}{105,84} = 15,1 = 16 \text{ дона}$$

$$\text{К/м} \quad M_{к/х} = 16 \cdot 1 = 16 \text{ дона}$$

8. Иш бирлигига сарфланадиган ёнилғи сарфи

$$Q = \frac{G_{uш} \cdot T_{uш} + G_{cm} \cdot T_{cm} + G_o \cdot T_o}{W_{cm}}$$

бу ерда: $G_{uш}$, G_{cm} , G_o - смена давомида агрегатнинг иш режимидаги, салт юришдаги ва агрегат тўхтаб туриб двигатель ишлаётганидаги бир соатлик ёнилғи сарфлари, кг/с

$T_{uш}$, T_{cm} , T_o -юкоридаги режимлардаги вақт сарфлари, соат

$$Q = \frac{7,7 \cdot 6,30 + 5,8 \cdot 0,28 + 2 \cdot 0,42}{9,24} = 5,50 \quad \text{кг/га}$$

9. Жараённи бажариш учун керакли ёнилғи миқдори

$$Q_u = Q \cdot U = 5,5 \cdot 1600 = 8800 \quad \text{кг}$$

10. Мойлаш материаллари қўйидагича аниқланади

$$Q_{mm} = Q_u \cdot \delta$$

бунда δ –мойлаш материаллари асосий ёнилғига нисбатан процентлари

$$Q_{mm} = 8800 \cdot 0,48 = 4224 \text{ кг} \quad \text{- мотор мойи;}$$

$$Q_{mp.m} = 8800 \cdot 0,02 = 176 \text{ кг} \quad \text{- трансмиссия мойи;}$$

$$Q_c = 8800 \cdot 0,008 = 70,4 \text{ кг} \quad \text{- солидол}$$

11. Бажариладиган иш бирлигига сарфланадиган меҳнат сарфи формула билан аниқланади.

$$H_o = \frac{m_1 + m_2}{W_c} = \frac{2}{1,32} = 1,51 \frac{\text{киши/соат}}{\text{га}}$$

12. Операцияга кетадиган меҳнат сарфи

$$H_{ym} = H_o \cdot U = 1,51 \cdot 1600 = 2416 \text{ киши/соат}$$

13.Бажариладиган иш бирлигига сарифланадиган эксплуатацион харажатлар (3,26) формула ёрдамида аниқланади.

$$C_o = \Sigma C_a + \Sigma C_{pm} + C_{\text{ёмм}} + C_m + C_{\text{сак}}$$

формуладаги белгилар олдинги формулада келтирилган

$$\Sigma C_a = C_{amp} + C_{асц} + C_{аккм} \cdot n_{ккм}$$

$$\Sigma C_a = \frac{(a' + a'')B_{mp}}{T_{\text{й.мп}} \cdot W_c \cdot 100} + \frac{a_{ккм} B_{ккм}}{T_{\text{й.ккм}} \cdot W_c \cdot 100}$$

$$a' = 12,5\% , a'' = 12,\% , a_{ккм} = 14,\% \quad [16 \text{ жадвал}]$$

$$T_{\text{й.мп}} = 1300\text{с}; \quad T_{\text{й.ккм}} = 300\text{с}$$

$$C_a = \frac{(12+8)270000000}{1300 \cdot 1,32 \cdot 100} + \frac{11 \cdot 5600000}{300 \cdot 1,32 \cdot 100} = 3146,85 + 1555,5 = 4702,4 \text{ сўм/га}$$

$$\Sigma C_{pm} = \frac{(a_p + a_m)B_{mp}}{T_{\text{й.мп}} \cdot W_c \cdot 100} + \frac{a_{ккм} B_{ккм}}{T_{\text{й.ккм}} \cdot W_c \cdot 100} = \frac{(8+5)3116000}{1300 \cdot 1,32 \cdot 100} + \frac{11 \cdot 95000}{300 \cdot 1,32 \cdot 100} = 2412,1 \text{ сўм/га}$$

$$C_{\text{ёмм}} = C_n \cdot Q = 600 \cdot 5,5 = 3300 \text{ сўм/га}$$

$$C_m = \frac{(C_{\text{м.ос}} + C_{\text{ёп}})1,094}{W_{\text{см}}} = \frac{(500+400) \cdot 1,094}{9,24} = \frac{984}{9,24} = 106,4 \text{ сўм/га}$$

$$C_{\text{м.ос}} = 500 \text{ сўм}; C_{\text{ёп}} = 400 \text{ сўм}$$

$$C_{\text{сак}} = \Delta_1 + \Delta_2 = 60 + 50 = 110 \text{ сўм/га};$$

$$\Delta_1 = 60 \text{ сўм/га}, \Delta_2 = 50 \text{ сўм/га}$$

$$C_o = 4702,4 + 2412,1 + 3300 + 106,4 + 110 = 10630,9 \text{ сўм/га}$$

$$C_u = C_o \cdot U = 10630,9 \cdot 1000 = 10630900 \text{ сўм.}$$

MUNDARIJA

№	Nomlanishi	Bet
1	Topshiriq	2
2	Bajarish tartibi	3
3	Kirish	4
4		5
5		6
6		7
7		9
8		10
9		12
10		13
11		14
12		15